July 15, 2021

Mr. Blair Rollins
Environmental Specialist
Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Via Email

RE Texaco Fee 6214 – Boring and Sampling
COGCC Facility ID 480103, REM# 18560
Garfield County, Colorado

Mr. Rollins,

Entrada Consulting Group, Inc. (Entrada) has prepared an Investigation Report for Caerus Oil and Gas LLC (Caerus) in response to a produced water release at the Texaco Fee 6214 (Site). The Site is in the SWNE, of Section 17, Township 6S, Range 99W of the 6th Principal Meridian in Garfield County, Colorado. The Site location is shown on **Figure 1**. The following narrative provides Site background information and presents the results of soil boring and sampling activities conducted by Entrada on June 8th through 10th, 2021, and June 16th through 17th, 2021

BACKGROUND

On May 28, 2021 a condensate release was discovered on the Texaco Fee 6214 location due to the failure of the High Level Alarm on the condensate tank. Approximately 85 barrels of condensate was released, and 5 barrels were recovered. The area near the point of release was excavated and 72 yards of contaminated soils was transported to Greenleaf Environmental Services near DeBeque Colorado for offsite disposal. The release was reported to the Colorado Oil and Gas Conservation Commission (COGCC) in a Spill/Release Report Form 19 dated May 28, 2021.

Please see the following COGCC documents for additional information and details regarding this project:

- Form 19. Doc # 402708407
- Form 27. Doc # 402713247

SOIL BORING AND SVE INSTALLATION

Five soil vapor extraction (SVE) wells were installed (SVE01, SVE02, SVE03, SVE04, and SVE05) by Entrada and Colorado Drilling and Sampling on June 8th through 10th, 2021, and June 16th through 17th, 2021. The locations of these SVE wells are shown on **Figure 1.** The soil borings were advanced with a solid stem auger driven by a truck-mounted Simco drill rig. Soil samples

were collected using split spoon style samplers. In each boring, the soil was visually examined for evidence of potential environmental impacts (e.g., petroleum staining and odor) and field-screened using a photo-ionization detector (PID) to evaluate the presence of volatile organic compounds (VOCs). The maximum PID reading observed during the investigations was 622 parts per million (ppm) at the 5 to 7 feet below ground surface (ft-bgs) interval of SB02. Staining was observed visually in samples and at surface during this investigation. Soil characteristics and lithology observed during drilling is provided in the attached boring logs. Soil staining was observed at the surface within the containment area and on the berms.

SOIL ANALYSIS

Soil samples were collected in sample containers appropriate for the specified analyses, sealed, labeled, and placed into an ice-filled cooler for preservation. Samples were submitted to Pace Analytical in Mt. Juliet, TN and analyzed for the following analyses:

- Total Petroleum Hydrocarbons – diesel range organics (TPH-DRO [C10-C28]) and Motor Oil Range (TPH-ORO [C28-C36]) by U.S. Environmental Protection Agency (EPA) Method 8015M;
- TPH-gasoline range organics (GRO) by EPA Method 8015D;
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA Method 8260B;
- Polycyclic Aromatic Hydrocarbons (PAHs) (COGCC Table 915-1) by EPA Method 8270C;
- pH by EPA Method 9045D;
- Metals (COGCC Table 915) by EPA Method 6010B;
    - Hexavalent chromium by EPA Method 7199;
    - Hot Water Soluble Boron by 6010B-NE493 Ch 2;
    - Arsenic by EPA Method 6020;
- Electrical conductivity (EC) by EPA Method 9050AMod;
- Sodium adsorption ratio (SAR) by calculation.

SOIL ANALYTICAL RESULTS

Soil sample analytical results are summarized in **Table 1** and are compared to COGCC Table 915-1 Residential Soil Screening Levels. Laboratory analysis reports and chain-of-custody documentation are included as an attachment. Soil analytical results are summarized below:

Soil analytical results were reported for forty-eight (48) soil samples at depths ranging from 0 to 60.5 ft-bgs. Soil sample locations are presented on the attached **Figure 1** and analytical results are summarized on **Table 1**. In addition, analytical results were reported for two (2) background soil samples at depths ranging from 12 to 18 inches below ground surface (in-bgs). The SCREEN-POR sample was taken from 0 to 6 in-bgs in visually stained soil as a contaminant characterization sample. Results are compared to Table 915-1 Residential Soil Screening Level Concentrations.

- Total Petroleum Hydrocarbons (TPH–GRO-DRO-ORO), Benzene, Toluene, Ethylbenzene, Xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, Acenapthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene Chrysene, Fluoranthene, Fluorene, 1-methylnaphthalene, 2-methylnaphthalene, Naphthalene, and Pyrene were identified in soil sampling results.

    - Of these, Total Petroleum Hydrocarbons, Xylenes, 1-methylnaphthalene, 2-methylnaphthalene, and Naphthalene exceeded COGCC Table 915-1 Residential Soil Screening Levels.
    - TPH and organic compound exceedances to COGCC Table 915-1 Residential Soil Screening Levels were only found in SB02 (5-7, 10-12, and 20-22 ft-bgs) and in the SCREEN-POR (0-6 in-bgs) samples.
- EC, SAR, pH, and Hot Water-Soluble Boron were identified in soil sampling results. Of these, EC, SAR, and pH exceeded COGCC Table 915-1 Residential Soil Screening Levels.
    - The EC values reported were below the COGCC residential soil screening levels of 4.0 mmhos/cm with the exception of SB03 (45-47 ft-bgs) at 4.08 mmhos/cm and SB04 (20-22 ft-bgs) at 4.19 mmhos/cm.
    - The SAR values reported for twelve (12) samples exceeded the COGCC Table 915-1 Residential Soil Screening Level of 6. SAR exceedances were reported in SB01, SB02, SB03 and SB04 at varying depths.
    - The pH values reported for thirty (30) samples exceeded the COGCC Table 915-1 Residential Soil Screening Level of 8.3. However, the values reported for seventeen (17) samples exceeded the local background of 8.5. pH exceedances were reported in all borings at varying depths.
- Arsenic, Barium, Cadmium, Copper, Lead, Nickel, Selenium, and Zinc were identified in soil sampling results. However, only Arsenic exceeded COGCC Table 915-1 Residential Soil Screening Levels.
    - The Arsenic values reported were below the nearby background concentration of 22 mg/kg at the Hollis 6207 Pad. The Hollis 6207 Pad is 0.92 miles south of the Site.

CONCLUSIONS AND RECOMMENDATIONS

Results from the soil sampling events indicate that TPH, BTEX, and other volatile and semi-volatile organic contaminant concentrations are below COGCC Table 915-1 Residential Soil Screening Levels in the areas south, southeast, southwest, and west of the containment. Concentrations of these analytes are above COGCC Table 915-1 Residential Soil Screening Levels within the containment area to a known depth of 22 ft-bgs. EC values are above COGCC Table 915-1 Residential Soil Screening Levels in the areas south and southwest of the containment. pH values are above COGCC Table 915-1 Residential Soil Screening Levels in all areas sampled. SAR values are above COGCC Table 915-1 Residential Soil Screening Levels in the containment and in areas south, southeast, and southwest of the containment.

Entrada recommends excavating the area within the outer perimeter of the containment berms (approximately 2400 sqft) to a depth of 22 ft-bgs. See **Figure 1** for the proposed excavation area. During excavation clearance samples should be taken from the base and each wall of the excavation. Additional excavation should be conducted if necessary to reach clearance concentrations. If additional impact is encountered which is unable to be safely removed during excavation a subsequent Form 27 will should be submitted with an alternate remediation approach. Entrada contends that additional background sampling is needed to determine if the pH, EC, and SAR concentrations encountered are naturally occurring.

We appreciate the opportunity to assist Caerus Oil and Gas LLC. Please contact me (720) 253-2940 if you have any questions.

Sincerely,
ENTRADA CONSULTING GROUP, INC

Reed Johnson
Senior Project Geologist

Tim Dobransky
Principal Scientist

Attachments:

Table 1 – Soil Data Summary
Figure 1 – Site Map
Boring Logs
Laboratory Analytical Reports

TABLES

TABLE 1
CAERUS OPERATING LLC
TEXACO FEE 6214 SPILL INVESTIGATION
SOIL ANALYTICAL RESULTS
GARFIELD COUNTY, COLORADO

				Contaminants of Concern				Organic Compounds in Soil																					Soil Suitability for Reclamation				Metals in Soil											
PROTECTION OF GROUNDWATER SOIL SCREENING LEVEL CONCENTRATION (mg/Kg)				500 mg/Kg				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	5.9	0.54	0.98	0.006	0.019	0.0038	1.3	<4.0 mmhos/cm	<6	6 - 8.3	2 mg/L	0.29	82	0.38		0.00067	46	14		26	0.26	0.8	370
RESIDENTIAL SOIL SCREENING LEVEL CONCENTRATION (mg/Kg)								1.2	190	5.8	58	30	27	360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180					0.68	15000	71		0.3	3100	400		1500	390	390	23000
Location	Sample Date	Sample Matrix	Matrix Notes	TPH (total volatile [C_6 - C_{10}] and extractable [C_{10} - C_{36}] hydrocarbons)	TPH - GRO [C6 - C10] Low Fraction	TPH - DRO [C10 - C28] High Fraction	TPH - ORO [C28 - C36] Oil Fraction	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m-, and p- isomers = total xylenes	1, 2, 4-trimethylbenzene	1, 3, 5-trimethylbenzene	Acenaphthene	Anthracene	Benz(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1, 2, 3-cd)pyrene	1-methylnaphthalene	2-methylnaphthalene	Naphthalene	Pyrene	Electrical Conductivty (EC) (by saturated paste method)	Sodium Adsorption Ratio (SAR) by saturated paste method)	pH (by saturated paste method)	Boron (hot water soluble soil extract)	Arsenic	Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
Hollis 6207	06/05/14	Background	S																														**22**											
Hollis 6207	06/05/14	Background	W																														**16**											
Hollis 6207	06/05/14	Background	S																														**13**											
Hollis 6207	06/05/14	Background	Mid																														**12**											
Hollis 6207	06/05/14	Background	S																														**12**											
Hollis 6207	06/05/14	Background	S																														**12**											
Hollis 6207	06/05/14	Background	S																														**11**											
Hollis 6207	06/05/14	Background	E																														**10**											
Hollis 6207	06/05/14	Background	W																														**9.8**											
Hollis 6207	06/05/14	Background	E																														**9.6**											
Hollis 6207	06/05/14	Background	W																														**9.3**											
Hollis 6207	06/05/14	Background	Mid																														**9**											
Hollis 6207	06/05/14	Background	E																														**8.7**											
Hollis 6207	06/05/14	Background	W																														**8.7**											
Hollis 6207	06/05/14	Background	Mid																														**8.4**											
Hollis 6207	06/05/14	Background	Mid																														**8.3**											
Hollis 6207	06/05/14	Background	E																														**8.2**											
Hollis 6207	06/05/14	Background	Mid																														**8.1**											
Hollis 6207	06/05/14	Background	E																														**8**											
Hollis 6207	06/05/14	Background	N																														**6.9**											
Hollis 6207	06/05/14	Background	W																														**6.6**											
Hollis 6207	06/05/14	Background	N																														**6.5**											
Hollis 6207	06/05/14	Background	N																														**6.2**											
Hollis 6207	06/05/14	Background	N																														**5.9**											
Hollis 6207	06/05/14	Background	N																														**5.6**											
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (5-7)	36.3125	0.0725	8.24	28	0.00055	0.00158	0.00295	0.00573	0.0016	0.00328	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.274	2.46	**9.26**	0.395	**11.7**	249	0.293		<1.00	11.3	7.48		17.2	2.07	<1.00	47.2
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (10-12)	67.2831	0.0831	17	50.2	<0.00100	<0.00500	<0.00250	0.00328	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.301	1.41	**9.16**	0.313	**8.48**	287	0.312		<1.00	13.4	7.54		13.3	20	<1.00	36.9
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (15-17)	60.127	0.147	9.78	50.2	<0.00100	0.00153	<0.00250	0.00117	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.259	3.26	**8.95**	0.342	**8.1**	316	0.272		<1.00	13.4	7.52		17.2	1.06	<1.00	40.0
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (20-22)	181.646	0.146	37.5	144	<0.00100	0.00183	<0.00250	0.00123	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.341	5.68	**9.25**	0.303	**8.33**	306	0.317		<1.00	13.2	6.1		12.8	0.853	<1.00	37.0
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (25-27)	95.978	0.178	20.2	75.6	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.858	2.02	**8.47**	0.258	**9**	311	0.323		<1.00	14	7.42		12.9	1.93	<1.00	37.2
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (30-32)	65.317	0.217	16	49.1	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00563	0.00848	0.0043	<0.00600	1	2.27	**8.35**	0.286	**9.38**	323	0.327		<1.00	16.2	7.28		16	2.33	<1.00	50.8
G17 699 Texaco Fee 6214	06/07/21	Spill	20210617-TEXACOFEE-6214-SB5 (35-37)	103.224	0.224	24.2	78.8	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.87	3.13	**8.46**	0.21	**5.9**	315	0.531		<1.00	14.4	6.45		12.1	1.9	<1.00	37.9
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (5-7)	<36.6	<0.100	10.9	25.6	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.494	2.72	7.95	0.633	**9.7**	232	<0.500		<1.00	11.1	4.85		13.6	<2.00	<1.00	36.3
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (10-12)	<115.2	<0.100	27.2	87.9	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.555	**7.11**	**9.14**	0.295	**7.75**	197	<0.500		<1.00	15.7	6.68		14.1	<2.00	<1.00	40.5
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (15-17)	129.805	0.105	28.7	101	<0.00100	<0.00500	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.761	5.74	**8.63**	0.268	**6.12**	247	<0.500		<1.00	7.92	4.66		9.24	<2.00	<1.00	28.0
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (20-22)	115.877	0.177	24.6	91.1	0.00138	0.0225	<0.00250	0.0147	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.41	**6.04**	8.27	0.244	**8.34**	196	<0.500		<1.00	8.74	4.49		10.8	<2.00	<1.00	30.5
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (25-27)	89.37	2.67	20.9	65.8	0.0222	1.06	0.151	1.89	0.0819	0.0814	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.66	4.84	7.95	0.249	**4.37**	240	<0.500		<1.00	7.95	3.95		8.12	<2.00	<1.00	22.4
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (30-32)	122.02	5.02	25.1	91.9	0.0816	1.63	0.12	1.16	0.0176	0.0229	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.9	**6.26**	8.12	0.272	**3.16**	245	<0.500		<1.00	7.17	2.78		7.18	<2.00	<1.00	20.7
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (35-37)	212.07	1.57	46.5	164	0.0467	0.426	0.0249	0.228	<0.00500	0.00525	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	3.05	**6.8**	8.19	0.3	**7.24**	188	<0.500		<1.00	11.2	4.73		11.6	<2.00	<1.00	32.3
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (40-42)	260.3	4.2	54.1	202	0.042	0.63	0.0473	0.447	0.01	0.0121	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.52	**6.43**	8.25	0.289	**8.05**	192	<0.500		<1.00	11.9	4.83		12.9	<2.00	<1.00	33.9
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SB1 (45-47)	161.089	0.389	33.7	127	0.00275	0.05	0.0043	0.0376	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.62	4.91	**8.32**	0.268	**8.98**	230	<0.500		<1.00	12.2	5.32		11.8	<2.00	<1.00	34.3
G17 699 Texaco Fee 6214	06/08/21	Spill	20210608-TEXACOFEE-6214-SCREEN-POR (0-6)	**34460**	**4820**	**20300**	**9340**	0.226	16	4.8	**252**	187	104	<120	<0.00600	0.101	0.14	0.0742	<0.00600	0.543	<0.00600	0.564	6.58	<0.00600	**60.9**	**71.1**	**30.7**	0.361	1.97	**15.6**	8.14	0.457	**4.28**	1400	<0.500		<1.00	9.64	16.8		9.99	<2.00	<1.00	59.6
G17 699 Texaco Fee 6214	06/08/21	Background	20210608-TEXACOFEE-6214-BKGND-1 (12-18)																										0.244	0.153	**8.5**	0.463	**7.22**											
G17 699 Texaco Fee 6214	06/08/21	Background	20210608-TEXACOFEE-6214-BKGND-1 (12")																										0.198	0.0811	**8.43**	0.315	**10.5**											
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (5-7)	**795.8**	**690**	27.7	78.1	0.101	13.1	1.55	**60.1**	15.6	9.2	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00625	0.0074	<0.0200	<0.00600	1.2	**10.7**	**8.33**	0.858	**7.81**	285	0.393		<1.00	13.1	7.29		12.9	2.23	<1.00	38.1
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (10-12)	**1809.37**	3.37	**1360**	446	0.00543	0.349	0.29	3.99	0.557	0.852	<0.00600	<0.00600	<0.00600	0.00	<0.00600	<0.00600	<0.00600	<0.00600	0.0158	0.107	<0.00600	1.79	2.61	1.21	0.00756	0.879	**9.86**	**8.93**	0.718	**10.2**	249	0.423		<1.00	17.3	9.22		15.9	2.06	<1.00	44.2
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (15-17)	122.27	9.47	31.8	81	0.0217	0.733	0.143	5.44	1.73	1.16	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00221	<0.00600	0.0212	0.026	0.0114	<0.00600	0.92	1.57	**8.89**	0.299	**7**	242	0.277		<1.00	10.3	6.58		10.7	1.85	<1.00	28.4
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (20-22)	**1633.879**	0.879	**1220**	413	0.00153	0.0414	0.0312	0.468	0.211	0.243	0.07	<0.00600	<0.00600	<0.00600	<0.00600	0.0028	<0.00600	<0.00600	0.023	0.144	<0.00600	2.5	3.67	1.73	0.0109	0.843	2.08	**9.01**	0.298	**8.88**	277	0.513		<1.00	14.9	8.46		15.4	2.27	<100	42.6
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (25-27)	141.326	0.826	44	96.5	0.000675	0.0424	0.0273	0.388	0.185	0.116	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00252	<0.00600	0.0407	0.0578	0.0311	<0.00600	1.56	1.78	8.17	0.362	**6.51**	243	0.383		<1.00	10.7	6.14		10.8	2.62	<1.00	32.5
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (30-32)	172.31	1.61	45.7	125	0.00208	0.0667	0.023	0.394	0.16	0.0962	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00754	0.00959	0.00524	<0.00600	1.51	1.79	8.16	0.253	**9.69**	286	0.498		<1.00	16.5	8.32		15.4	2.24	<1.00	45.7
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (35-37)	120.8997	0.0997	32.6	88.2	0.000575	0.0148	0.00315	0.041	0.0102	0.00625	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.0156	0.0214	0.00802	<0.00600	2.46	1.59	8.01	0.24	**9.32**	251	0.383		<1.00	14	7.22		14.1	1.61	<1.00	41.8
G17 699 Texaco Fee 6214	06/09/21	Spill	20210609-TEXACOFEE-6214-SB2 (40-42)	91.903	0.203	22.3	69.4	0.000725	0.0175	0.00448	0.0768	0.0317	0.0182	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00603	0.00723	<0.0200	<0.00600	1.21	2.74	8.3	0.201	**7.1**	308	0.468		<1.00	14.7	7.9		15	2.94	<1.00	45.7
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (5-7)	<14.005	0.515	<4.00	9.49	<0.00100	0.00983	<0.00250	0.0163	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.489	1.94	**9.23**	0.58	**5.49**	299	<0.500		<1.00	12.6	7.06		15.1	<2.00	<1.00	46.7
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (10-12)	29.476	0.146	9.23	20.1	<0.00100	0.00515	<0.00250	0.00872	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.461	3.11	**9.48**	0.3	**7.03**	332	<0.500		<1.00	12.5	6.69		16.4	<2.00	<1.00	44.9
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (15-17)	27	1.9	10.1	25.1	<0.00100	0.0154	0.0331	0.102	<0.00500	0.0512	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.473	5.22	**9.27**	0.287	**18.2**	274	<0.500		<1.00	16.7	10.3		22.3	<2.00	<1.00	54.9
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (20-22)	233.85	3.85	73	157	0.092	12.7	0.42	4.69	0.454	0.386	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	0.655	**6.53**	**8.63**	0.254	**10.1**	311	<0.500		<1.00	26	9.42		20	<2.00	<1.00	54.6
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (25-27)	68.9	4.8	20.5	43.6	0.143	2.11	0.213	1.92	0.0482	0.0661	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.58	**7.09**	**8.36**	0.231	**12.9**	235	<0.500		<1.00	15.6	6.84		19	<2.00	<1.00	53.3
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (30-32)	242.94	1.64	82.3	159	0.477	1.51	<0.00250	0.0778	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	3.42	5.1	8.27	0.244	**13.2**	370	0.578		<1.00	19	9.43		20.4	<2.00	<1.00	54.5
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (35-37)	142.061	0.761	42.9	98.4	0.156	0.638	<0.00250	0.0263	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.58	5.01	**8.33**	**<0.200**	**10.7**	333	<0.500		<1.00	19.1	8.83		19.4	<2.00	<1.00	51.3
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (40-42)	110.44	1.34	34.8	74.3	0.104	0.173	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	3.16	2.85	8.05	0.205	**11**	257	0.536		<1.00	17.2	9.95		19.9	<2.00	<1.00	63.7
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (45-47)	120.99	2.19	37.7	81.1	0.0298	0.0605	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	**4.08**	2.69	8	**<0.200**	**10.8**	379	<0.500		<1.00	13.6	8.26		16.4	<2.00	<1.00	48.3
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (50-52)	34.16	1.71	9.55	22.9	0.0184	0.0155	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.19	3.64	8.25	**0.205**	**8.7**	373	<0.500		<1.00	17	7.77		16	<2.00	<1.00	50.1
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (52-54)	23.591	0.881	6.31	16.4	0.0119	0.006	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.44	4.03	**8.61**	**<0.200**	**9.17**	310	<0.500		<1.00	13.3	8.98		18.1	<2.00	<1.00	47.4
G17 699 Texaco Fee 6214	06/10/21	Spill	20210610-TEXACOFEE-6214-SB3 (59-60.5)	212.24	1.64	68.6	142	0.02	0.013	<0.00250	<0.00650	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	3.46	2.65	7.96	**<0.200**	**10.8**	319	<0.500		<1.00	18.7	9.92		19.9	<2.00	<1.00	54.0
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (5-7)	7.2905	0.0305	3.19	4.07	0.0006	0.0021	0.0011	0.00365	0.0031	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.01	3.18	**8.72**	0.336	**8.54**	336	0.364		<1.00	10.2	7.58		13.5	<2.00	<1.00	47.7
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (10-12)	45.067	0.107	9.46	35.5	<0.00100	<0.00500	<0.00250	0.00128	<0.00500	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00938	0.0252	0.129	<0.00600	1.54	**7.21**	**8.8**	0.484	**10.4**	305	0.264		<1.00	9.89	6.37		11.8	0.865	<1.00	33.4
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (15-17)	62.1728	0.0728	15	47.1	<0.00100	0.0015	<0.00250	0.0031	0.00195	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.43	**9.25**	**8.65**	0.32	**8.04**	273	0.284		<1.00	13.8	11.8		14	<2.00	<1.00	41.9
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (20-22)	53.33	1.43	10.9	41	0.0264	0.697	0.0656	0.699	0.0164	0.0189	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	**4.19**	5.26	8.01	0.172	**11.3**	271	0.328		<1.00	21	8.09		20.5	**>2.00**	<1.00	47.1
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (25-27)	144.65	4.75	26.9	113	0.0865	8.61	0.243	2.45	0.0163	0.0325	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.92	3.07	8.15	0.262	**8.01**	268	0.4		<1.00	16.7	7.09		16.4	<2.00	<1.00	45.8
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (30-32)	99.35	5.95	20.1	73.3	0.0629	11.6	0.314	3.43	0.0236	0.0503	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	2.61	3.39	8.15	0.211	**8.87**	293	0.397		<1.00	18	8		16.5	<2.00	<1.00	47.4
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (35-37)	364.8	120	60.8	184	0.193	3.37	0.187	1.39	<0.0400	<0.0400	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.62	4.1	**8.35**	0.183	**8.87**	266	0.327		<1.00	15.5	6.49		15.5	0.954	<1.00	45.3
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (40-42)	176.1	57.1	25.6	93.4	0.103	1.93	0.114	0.748	<0.0400	<0.0400	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.75	2.84	**8.39**	0.225	**9.7**	439	0.322		<1.00	11.3	6.43		13.3	<2.00	<1.00	43.2
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (45-47)	56.19	1.69	11	43.5	0.0559	0.9	0.0336	0.167	0.00222	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.47	3.01	**8.49**	0.122	**9.35**	342	0.303		<1.00	12.3	6.69		15.2	<2.00	<1.00	42.8
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (50-52)	91.2	1.5	19.1	70.6	0.0567	0.241	0.00268	0.0092	0.00205	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	3.09	3.34	7.97	0.164	**10.5**	240	0.355		<1.00	21.1	6.55		21.6	<2.00	<1.00	62.6
G17 699 Texaco Fee 6214	06/16/21	Spill	20210616-TEXACOFEE-6214-SB4 (55-57)	61.443	0.443	15.2	45.8	0.00153	0.0249	0.000916	0.00394	0.002	<0.00500	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	1.62	2.52	**8.37**	0.139	**8.66**	382	0.314		<1.00	10.5	7.05		17.6	<2.00	<1.00	43.7

FIGURES

LEGEND

- Boring Location
- Soil Sample Location
- Proposed Excavation

0 60 120 ft

1 inch = 60 ft

Project No: 021-115	**TEXACO FEE 62-14** CAERUS OIL AND GAS LLC SWNE SEC 17 T6S R99W 6TH PM GARFIELD COUNTY, COLORADO	ENTRADA CONSULTING GROUP 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-579-1015	Figure
Map By: NDB			1
Date: 7/15/2021			

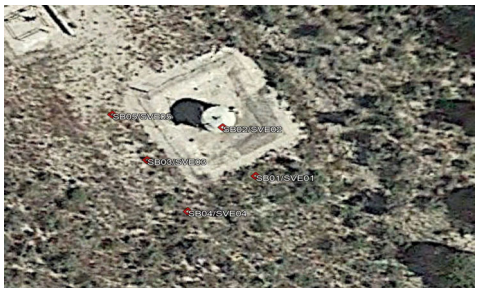
BORING LOGS

ENTRADA CONSULTING GROUP

Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Texaco Fee 6214

SB01/SVE01

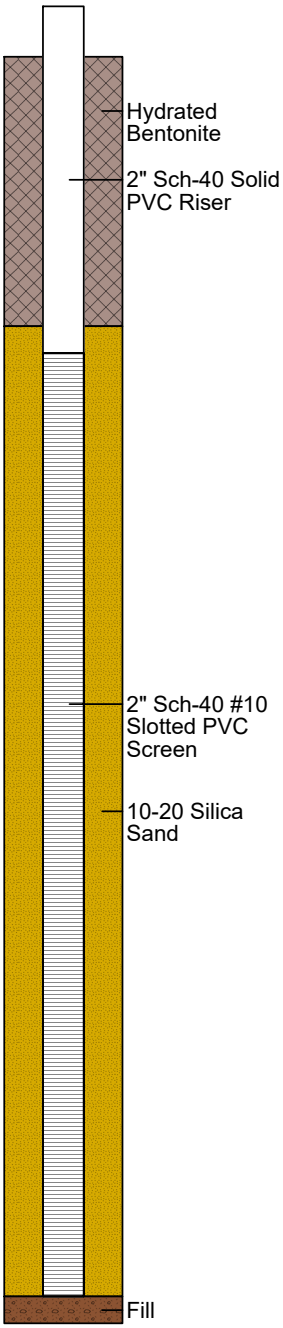


Date Started	: 06/08/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.534473°
Longitude	: -108.463810°
Project Number	: 021-115
Logged By	: R. Johnson

Depth in Feet	USCS	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
5	GC	5-7: Clayey gravel. Vs Moist. Brown into light brown. No odor.	20	20	N	0.4	N	16	5-7	4,5,6
10	GC	10-12: Sandy and clayey gravel. Very slightly moist. No odor.	30	20	N	18.2	N	18	10-12	4,5,6
15	GC	15-17: Clayey gravel. Brown into tan. VS Moist. No odor.	30	20	N	5.5	N	18	15-17	6,5,6
20	GC	20-22: Clayey gravel into sandy clay into clayey gravel. No odor. Dry.	20	40	N	5.9	N	24	20-22	15,5,5
25	GC	25-27: Clayey and sandy gravel. Dry. No odor.	20	30	N	91.0	N	18	25-27	5,6,8
30	CL	30-32: Gravelly clay. Brown into tan. VS Moist. No odor.	30	60	S	142	N	24	30-32	6,5,5
35	CL	35-37: Gravelly clay. VS Moist. No odor.	30	50	N	123	N	18	35-37	9,9,9
40	GC	40-42: Clayey gravel. Dry. Weathered shale at base.	20	30	S	79.1	N	18	40-42	15,13,19
45	GC	45-47: Clayey gravel into weathered shale. VS Moist. No odor.	30	30	BR	36	N	18	45-47	13,12,13

TD at 47'
Some problems with slough entering wellbore while drilling.

SVE01:

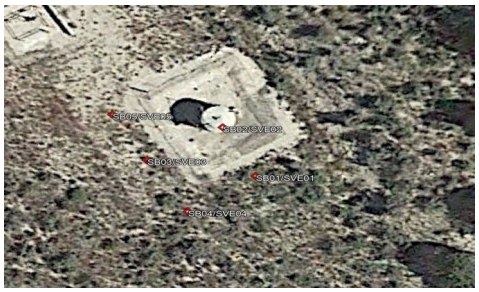


ENTRADA CONSULTING GROUP

Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Texaco Fee 6214

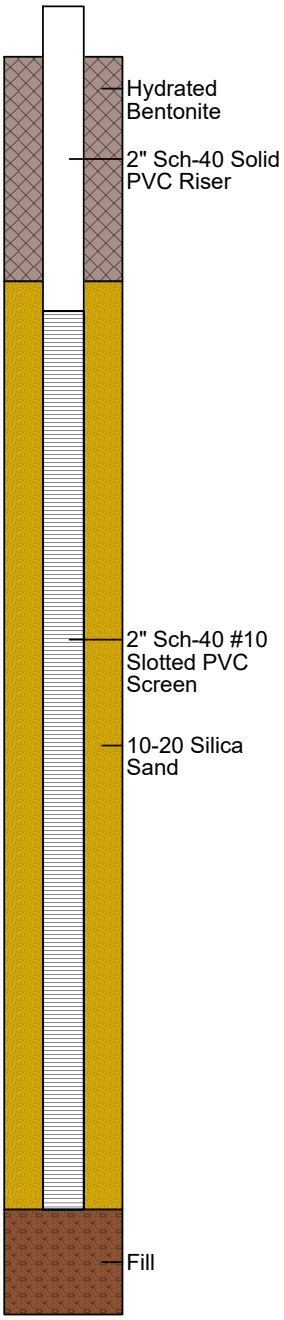
SB02/SVE02



Date Started	: 06/09/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.534533°
Longitude	: -108.463850°
Project Number	: 021-115
Logged By	: R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
5	GC		5-7: Clayey and sandy gravel. Moist. Sl odor.	50	30	N	622	Y	10	5-7	3,2,3
10	GC		10-12: Sandy and clayey gravel. Very slightly moist. No odor.	30	40	N	68.3	N	12	10-12	4,4,5
15	GC		15-17: Clayey gravel. Iron staining. Dry. No odor.	30	30	N	9.5	N	18	15-17	5,6,5
20	GC		20-22: Clayey gravel. Some iron staining. 3" thick moist horizon. No odor.	30	30	N	31.1	N	18	20-22	3,1,3
25	GC		25-27: Clayey gravel. Dry. No odor.	20	40	N	256	N	18	25-27	5,7,10
30	GC		30-32: Clayey gravel. Dry. No odor.	30	30	N	19	N	18	30-32	4,9,9
35	GC		35-37: Clayey gravel. VS Moist. No odor.	30	20	N	11.4	N	12	35-37	9,9,11
40	GC		40-42: Clayey gravel. VS Moist. No odor.	30	30	N	15	N	10	40-42	9,9,11

SVE02:



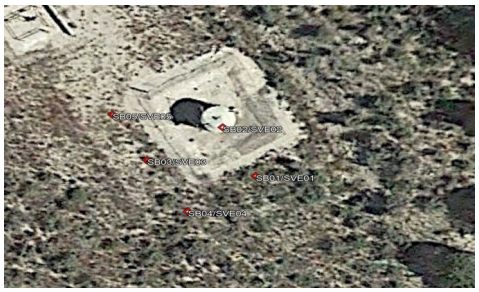
TD at 42'
Considerable problems with slough entering wellbore while drilling.

ENTRADA CONSULTING GROUP

Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Texaco Fee 6214

SB03/SVE03

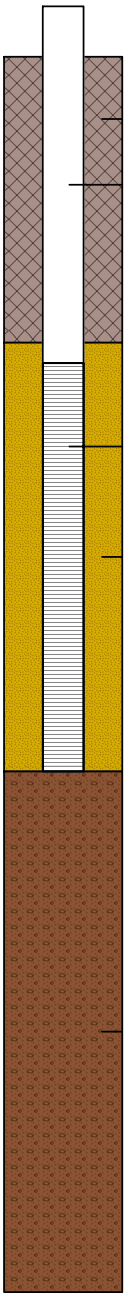


Date Started	: 06/10/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.534494°
Longitude	: -108.463946°
Project Number	: 021-115
Logged By	: R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
0											
5	CL		5-7: Clay into gravelly clay. No odor.	30	70	N	21.5	N	18	5-7	6,10,15
10	GC		10-12: Clayey gravel. No odor.	30	50	N	10.2	N	12	10-12	3,4,4
15	CL		15-17: Gravelly clay. No odor.	30	60	N	84	N	12	15-17	4,7,6
20	CL		20-22: Sandy and gravelly clay. Slight odor.	20	60	N	309	N	18	20-22	6,3,4
25	CL		25-27: Gravelly clay. Slight odor.	20	60	N	370	N	12	25-27	5,6,6,10
30	CL		30-32: Gravelly and sandy clay. No odor.	30	60	N	31.6	N	16	30-32	8,10,12,12
35	GC		35-37: Clayey and sandy gravel.	30	40	N	45.8	N	16	35-37	9,5,5,10
40	GC		40-42: Clayey gravel.	30	40	N	159	N	18	40-42	7,13,10,10
45	CL		45-47: Gravelly clay. Slight odor.	20	50	N	65	N	16	45-47	14,14,14,16
50	GC		50-52: Clayey gravel. No odor.	20	50	N	87	N	16	50-52	14,12,12,12
55	CL		52-54: Sandy clay into weathered sandstone clast.	20	70	N	72	N	10	52-54	13,10,14,20
60	CL		59-60.5: Gravelly and sandy clay. Dry.	20	60	N	57	N	18	59-60.5	18,13,15

TD at 60.5'. Considerable problems with slough entering wellbore while drilling. Hole left open and completed on 06/17/21.

SVE03:

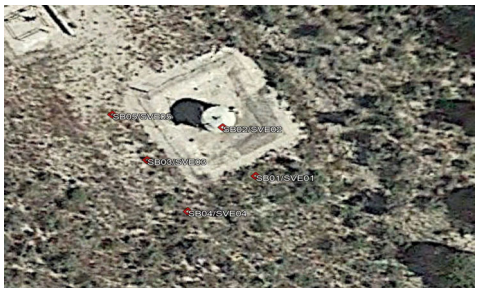


ENTRADA CONSULTING GROUP

Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Texaco Fee 6214

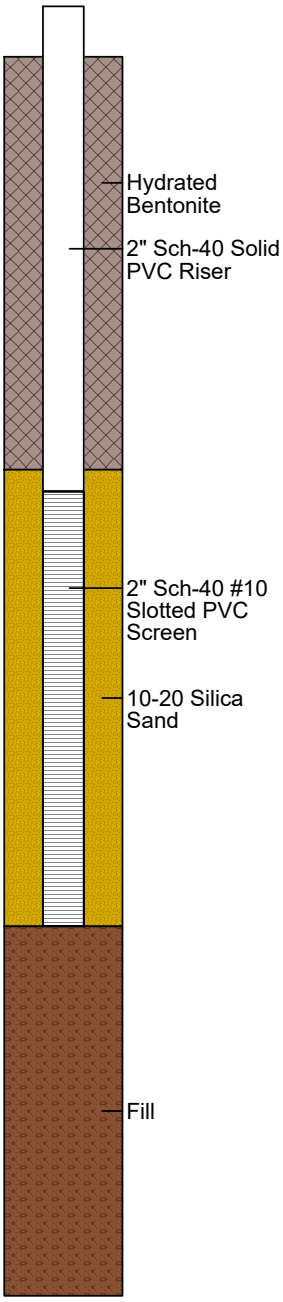
SB04/SVE04



Date Started	: 06/16/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.534429°
Longitude	: -108.463895°
Project Number	: 021-115
Logged By	: R. Johnson

Depth in Feet	USCS	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
5	CL	5-7: Silty and gravelly clay into 3" sandstone cobble. No odor.	10	60	N	21.5	N	18	5-7	6,6,7,7
10	CL	10-12: Silty and gravelly clay. No odor.	10	60	N	10.2	N	20	10-12	5,4,6,7
15	CL	15-17: Gravelly clay. No odor.	10	60	N	84	N	12	15-17	5,5,6
20	CL	20-22: Tan and gravelly clay. Very slightly moist. Slight odor.	20	60	N	309	N	14	20-22	15,10,12
25	GC	25-27: Clayey gravel. Very slightly moist. Slight odor.	20	50	N	370	N	16	25-27	11,10,10
30	CL	30-32: Gravelly clay. Dry. Odor.	10	60	N	31.6	N	18	30-32	5,6,7
35	GC	35-37: Clayey gravel. Dry. Odor.	10	50	N	45.8	N	18	35-37	10,12,14
40	CL	40-42: Gravelly clay, Dry. Odor.	10	60	N	159	N	16	40-42	7,8,10
45	GC	45-47: Clayey gravel. No odor. Dry.	10	50	N	65	N	22	45-47	19,25
50	GC	50-52: Clayey gravel. Tan into grey. No odor. Dry.	10	50	S	87	N	18	50-52	20,16,15
55	GC	55-57: Clayey gravel, No odor. Dry.	10	50	N	72	N	12	55-57	10,20,28

SVE04:



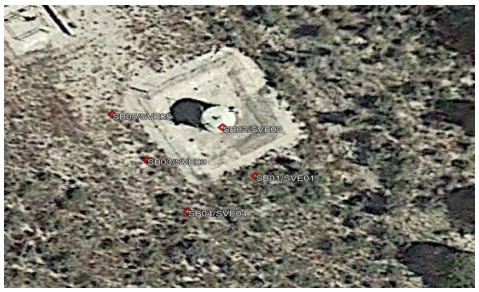
TD at 57'. Considerable problems with slough entering wellbore while drilling. Hole left open and completed on 06/17/21.

ENTRADA CONSULTING GROUP

Caerus Oil and Gas LLC
143 Diamond Ave
Parachute, CO 81635

Texaco Fee 6214

SB05/SVE05

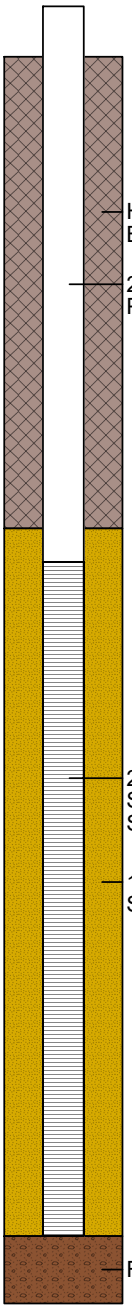


Date Started	: 06/17/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.534551°
Longitude	: -108.463989°
Project Number	: 021-115
Logged By	: R. Johnson

Depth in Feet	USCS	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
5	CL	5-7: 6" Dark brown gravelly clay into tan gravelly clay. VS Moist.	30	50	N	1.6	N	15	5-7	5,5,13
10	GC	10-12: Clayey and sandy gravel. No odor. VS Moist.	30	30	N	0.7	N	12	10-12	6,4,4
15	CL	15-17: Clay with gravel. No odor. VS Moist.	30	70	N	2.0	N	12	15-17	4,5,6
20	CL	20-22: Gravelly clay. VS moist. No odor.	30	60	N	3.4	N	12	20-22	7,5,7
25	CL	25-27: Gravelly clay. VS moist. No odor. Salt crystals in sample.	30	70	N	1.1	N	24	25-27	6,6,5
30	CL	30-32: Gravelly clay. Dry. No odor.	20	60	N	2.2	N	24	30-32	8,6,5
35	GC	35-37: Clayey gravel. No odor. VS Moist.	30	30	N	1.5	N	18	35-37	9,8,11

TD at 37'. Considerable problems with slough entering wellbore while drilling.

SVE05:



ANALYTICAL REPORTS

ANALYTICAL REPORT

June 17, 2021

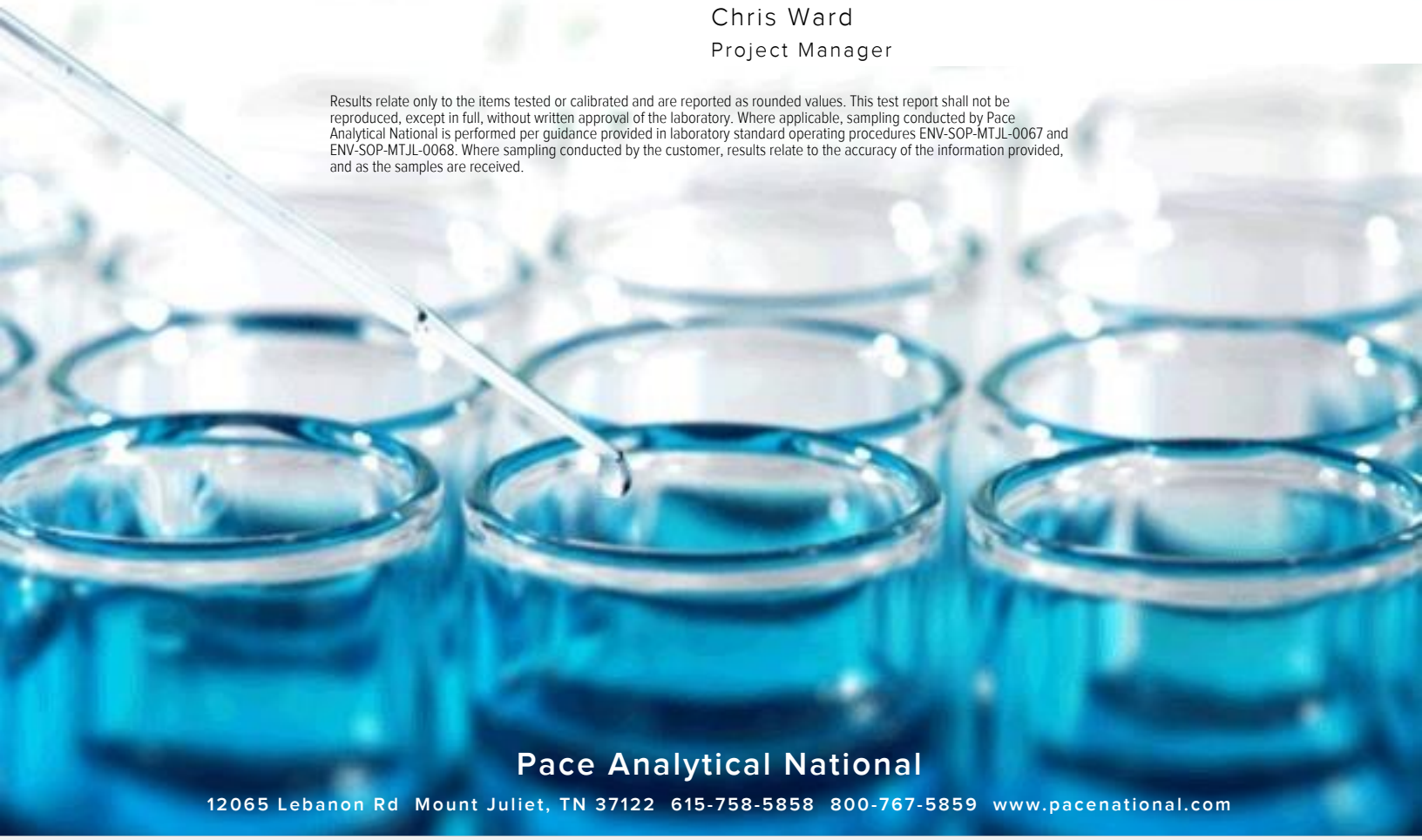
1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Caerus Oil and Gas

Sample Delivery Group:	L1363880
Samples Received:	06/09/2021
Project Number:	
Description:	Texaco Fee 62-14
Report To:	Blair Rollins 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

20210608-TEXACOFEE-62-14-SB1 (5-7) L1363880-01 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 11:30 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 00:46	06/16/21 00:46	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 16:29	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:42	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 01:53	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 20:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 17:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 20:40	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 03:08	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686318	1	06/11/21 03:11	06/11/21 14:38	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (10-12) L1363880-02 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 11:45 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 00:49	06/16/21 00:49	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 16:39	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:45	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 01:56	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 20:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 17:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 21:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 03:21	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686318	1	06/11/21 03:11	06/11/21 14:56	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (15-17) L1363880-03 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 12:05 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 00:57	06/16/21 00:57	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 16:45	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:48	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:04	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 20:54	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 18:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 21:22	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 03:35	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686318	1	06/11/21 03:11	06/11/21 15:14	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (20-22) L1363880-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 12:25 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:00	06/16/21 01:00	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 16:50	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:52	CCE	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (20-22) L1363880-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 12:25 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:07	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 20:57	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 18:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 21:43	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 03:48	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686318	1	06/11/21 03:11	06/11/21 15:32	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (25-27) L1363880-05 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 12:45 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:03	06/16/21 01:03	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 16:55	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:55	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:11	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:00	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 19:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 22:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 04:02	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 09:16	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (30-32) L1363880-06 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 13:10 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:06	06/16/21 01:06	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 17:11	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 00:58	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:14	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:03	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 19:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 22:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 04:15	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 09:36	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (35-37) L1363880-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 13:40 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:08	06/16/21 01:08	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 17:16	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 01:01	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:17	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 19:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 23:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 04:29	JN	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (35-37) L1363880-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 13:40 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 09:55	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (40-42) L1363880-08 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 14:00 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:11	06/16/21 01:11	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 17:21	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 01:04	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:20	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:20	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 20:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/14/21 23:40	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	1	06/10/21 23:52	06/14/21 05:10	JN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1686305	2	06/10/21 23:52	06/15/21 13:21	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 10:15	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SB1 (45-47) L1363880-09 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 15:00 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:14	06/16/21 01:14	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 17:26	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 01:13	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:23	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	1	06/10/21 20:25	06/12/21 20:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688382	1	06/10/21 20:25	06/15/21 00:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687176	1	06/11/21 19:35	06/12/21 18:00	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 10:35	TMM	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-SCREEN-POR (0-) L1363880-10 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 12:20 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:17	06/16/21 01:17	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1687706	1	06/15/21 09:28	06/16/21 17:34	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1686076	1	06/14/21 17:28	06/16/21 01:16	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:26	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:27	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687394	500	06/10/21 20:25	06/12/21 20:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1690232	80	06/10/21 20:25	06/17/21 13:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687176	100	06/11/21 19:35	06/15/21 06:18	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	1	06/11/21 03:16	06/11/21 16:13	TMM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	100	06/11/21 03:16	06/14/21 07:41	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1686336	20	06/11/21 03:16	06/12/21 06:43	LEA	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-BKGND-1 (12-18) L1363880-11 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 13:55 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:20	06/16/21 01:20	EL	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:29	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:30	LD	Mt. Juliet, TN

20210608-TEXACOFEE-62-14-BKGND-1 (12") L1363880-12 Solid

Collected by: Reed Johnson | Collected date/time: 06/08/21 14:35 | Received date/time: 06/09/21 10:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687904	1	06/16/21 01:23	06/16/21 01:23	EL	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687930	1	06/14/21 15:00	06/14/21 16:56	RMR	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687906	1	06/14/21 14:49	06/16/21 02:32	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1686071	5	06/14/21 17:03	06/15/21 21:33	LD	Mt. Juliet, TN

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.

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.72		1	06/16/2021 00:46	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 16:29	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.95	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1363880-01 WG1688481: 7.95 at 21.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	494		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	232		0.500	1	06/16/2021 00:42	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:42	WG1686076
Copper	11.1		2.00	1	06/16/2021 00:42	WG1686076
Lead	4.85		0.500	1	06/16/2021 00:42	WG1686076
Nickel	13.6		2.00	1	06/16/2021 00:42	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:42	WG1686076
Silver	ND		1.00	1	06/16/2021 00:42	WG1686076
Zinc	36.3		5.00	1	06/16/2021 00:42	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.633		0.200	1	06/16/2021 01:53	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.70		1.00	5	06/15/2021 20:47	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/12/2021 17:38	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*86.1*		*77.0-120*		*06/12/2021 17:38*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 20:40	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 20:40	WG1688382
Benzene	ND		0.00100	1	06/14/2021 20:40	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 20:40	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 20:40	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 20:40	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 20:40	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 20:40	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 20:40	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 20:40	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 20:40	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 20:40	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 20:40	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 20:40	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 20:40	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 20:40	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 20:40	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 20:40	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 20:40	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 20:40	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 20:40	WG1688382
Ethylbenzene	ND		0.00250	1	06/14/2021 20:40	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 20:40	WG1688382
Isopropylbenzene	ND		0.00250	1	06/14/2021 20:40	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 20:40	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 20:40	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 20:40	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 20:40	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 20:40	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 20:40	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
Styrene	ND		0.0125	1	06/14/2021 20:40	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 20:40	WG1688382
Toluene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 20:40	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 20:40	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 20:40	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 20:40	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 20:40	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
1,3,5-Trimethylbenzene	ND		0.00500	1	06/14/2021 20:40	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 20:40	WG1688382
Xylenes, Total	ND		0.00650	1	06/14/2021 20:40	WG1688382
(S) Toluene-d8	*102*		*75.0-131*		*06/14/2021 20:40*	WG1688382
(S) 4-Bromofluorobenzene	*91.4*		*67.0-138*		*06/14/2021 20:40*	WG1688382
(S) 1,2-Dichloroethane-d4	*85.1*		*70.0-130*		*06/14/2021 20:40*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.9		4.00	1	06/14/2021 03:08	WG1686305
C28-C36 Motor Oil Range	25.6		4.00	1	06/14/2021 03:08	WG1686305
(S) o-Terphenyl	*90.5*		*18.0-148*		*06/14/2021 03:08*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Acenaphthene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Acenaphthylene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Chrysene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Fluoranthene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Fluorene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Naphthalene	ND		0.0200	1	06/11/2021 14:38	WG1686318
Phenanthrene	ND		0.00600	1	06/11/2021 14:38	WG1686318
Pyrene	ND		0.00600	1	06/11/2021 14:38	WG1686318
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 14:38	WG1686318
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 14:38	WG1686318
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 14:38	WG1686318
(S) p-Terphenyl-d14	*87.3*		*23.0-120*		*06/11/2021 14:38*	WG1686318
(S) Nitrobenzene-d5	*85.6*		*14.0-149*		*06/11/2021 14:38*	WG1686318
(S) 2-Fluorobiphenyl	*78.6*		*34.0-125*		*06/11/2021 14:38*	WG1686318

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.11		1	06/16/2021 00:49	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 16:39	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.14	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1363880-02 WG1688481: 9.14 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	555		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	197		0.500	1	06/16/2021 00:45	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:45	WG1686076
Copper	15.7		2.00	1	06/16/2021 00:45	WG1686076
Lead	6.68		0.500	1	06/16/2021 00:45	WG1686076
Nickel	14.1		2.00	1	06/16/2021 00:45	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:45	WG1686076
Silver	ND		1.00	1	06/16/2021 00:45	WG1686076
Zinc	40.5		5.00	1	06/16/2021 00:45	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.295		0.200	1	06/16/2021 01:56	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.75		1.00	5	06/15/2021 20:50	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	06/12/2021 17:59	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*82.6*		*77.0-120*		*06/12/2021 17:59*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 21:01	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 21:01	WG1688382
Benzene	ND		0.00100	1	06/14/2021 21:01	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 21:01	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 21:01	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 21:01	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 21:01	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 21:01	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 21:01	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 21:01	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 21:01	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 21:01	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 21:01	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 21:01	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 21:01	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 21:01	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 21:01	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 21:01	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 21:01	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 21:01	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 21:01	WG1688382
Ethylbenzene	ND		0.00250	1	06/14/2021 21:01	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 21:01	WG1688382
Isopropylbenzene	ND		0.00250	1	06/14/2021 21:01	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 21:01	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 21:01	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 21:01	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 21:01	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 21:01	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 21:01	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
Styrene	ND		0.0125	1	06/14/2021 21:01	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 21:01	WG1688382
Toluene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:01	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:01	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 21:01	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 21:01	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 21:01	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
1,3,5-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:01	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 21:01	WG1688382
Xylenes, Total	ND		0.00650	1	06/14/2021 21:01	WG1688382
(S) Toluene-d8	*103*		*75.0-131*		*06/14/2021 21:01*	WG1688382
(S) 4-Bromofluorobenzene	*87.5*		*67.0-138*		*06/14/2021 21:01*	WG1688382
(S) 1,2-Dichloroethane-d4	*87.6*		*70.0-130*		*06/14/2021 21:01*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	27.2		4.00	1	06/14/2021 03:21	WG1686305
C28-C36 Motor Oil Range	87.9		4.00	1	06/14/2021 03:21	WG1686305
(S) o-Terphenyl	*70.6*		*18.0-148*		*06/14/2021 03:21*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Acenaphthene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Acenaphthylene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Chrysene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Fluoranthene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Fluorene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Naphthalene	ND		0.0200	1	06/11/2021 14:56	WG1686318
Phenanthrene	ND		0.00600	1	06/11/2021 14:56	WG1686318
Pyrene	ND		0.00600	1	06/11/2021 14:56	WG1686318
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 14:56	WG1686318
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 14:56	WG1686318
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 14:56	WG1686318
(S) p-Terphenyl-d14	*90.1*		*23.0-120*		*06/11/2021 14:56*	WG1686318
(S) Nitrobenzene-d5	*84.9*		*14.0-149*		*06/11/2021 14:56*	WG1686318
(S) 2-Fluorobiphenyl	*78.5*		*34.0-125*		*06/11/2021 14:56*	WG1686318

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.74		1	06/16/2021 00:57	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 16:45	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.63	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1363880-03 WG1688481: 8.63 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	761		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	247		0.500	1	06/16/2021 00:48	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:48	WG1686076
Copper	7.92		2.00	1	06/16/2021 00:48	WG1686076
Lead	4.66		0.500	1	06/16/2021 00:48	WG1686076
Nickel	9.24		2.00	1	06/16/2021 00:48	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:48	WG1686076
Silver	ND		1.00	1	06/16/2021 00:48	WG1686076
Zinc	28.0		5.00	1	06/16/2021 00:48	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.268		0.200	1	06/16/2021 02:04	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.12		1.00	5	06/15/2021 20:54	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.105		0.100	1	06/12/2021 18:21	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*82.9*		*77.0-120*		*06/12/2021 18:21*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 21:22	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 21:22	WG1688382
Benzene	ND		0.00100	1	06/14/2021 21:22	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 21:22	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 21:22	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 21:22	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 21:22	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 21:22	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 21:22	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 21:22	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 21:22	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 21:22	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 21:22	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 21:22	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 21:22	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 21:22	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 21:22	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 21:22	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 21:22	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 21:22	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 21:22	WG1688382
Ethylbenzene	ND		0.00250	1	06/14/2021 21:22	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 21:22	WG1688382
Isopropylbenzene	ND		0.00250	1	06/14/2021 21:22	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 21:22	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 21:22	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 21:22	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 21:22	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 21:22	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 21:22	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
Styrene	ND		0.0125	1	06/14/2021 21:22	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 21:22	WG1688382
Toluene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:22	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:22	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 21:22	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 21:22	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 21:22	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
1,3,5-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:22	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 21:22	WG1688382
Xylenes, Total	ND		0.00650	1	06/14/2021 21:22	WG1688382
(S) Toluene-d8	*102*		*75.0-131*		*06/14/2021 21:22*	WG1688382
(S) 4-Bromofluorobenzene	*87.0*		*67.0-138*		*06/14/2021 21:22*	WG1688382
(S) 1,2-Dichloroethane-d4	*81.3*		*70.0-130*		*06/14/2021 21:22*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	28.7		4.00	1	06/14/2021 03:35	WG1686305
C28-C36 Motor Oil Range	101		4.00	1	06/14/2021 03:35	WG1686305
(S) o-Terphenyl	*77.8*		*18.0-148*		*06/14/2021 03:35*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Acenaphthene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Acenaphthylene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Chrysene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Fluoranthene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Fluorene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Naphthalene	ND		0.0200	1	06/11/2021 15:14	WG1686318
Phenanthrene	ND		0.00600	1	06/11/2021 15:14	WG1686318
Pyrene	ND		0.00600	1	06/11/2021 15:14	WG1686318
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 15:14	WG1686318
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 15:14	WG1686318
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 15:14	WG1686318
(S) p-Terphenyl-d14	*75.8*		*23.0-120*		*06/11/2021 15:14*	WG1686318
(S) Nitrobenzene-d5	*70.3*		*14.0-149*		*06/11/2021 15:14*	WG1686318
(S) 2-Fluorobiphenyl	*66.3*		*34.0-125*		*06/11/2021 15:14*	WG1686318

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.04		1	06/16/2021 01:00	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 16:50	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-04 WG1687930: 8.27 at 24.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2410		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	196		0.500	1	06/16/2021 00:52	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:52	WG1686076
Copper	8.74		2.00	1	06/16/2021 00:52	WG1686076
Lead	4.49		0.500	1	06/16/2021 00:52	WG1686076
Nickel	10.8		2.00	1	06/16/2021 00:52	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:52	WG1686076
Silver	ND		1.00	1	06/16/2021 00:52	WG1686076
Zinc	30.5		5.00	1	06/16/2021 00:52	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.244		0.200	1	06/16/2021 02:07	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.34		1.00	5	06/15/2021 20:57	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.177		0.100	1	06/12/2021 18:44	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*81.8*		*77.0-120*		*06/12/2021 18:44*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 21:43	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 21:43	WG1688382
Benzene	0.00138		0.00100	1	06/14/2021 21:43	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 21:43	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 21:43	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 21:43	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 21:43	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 21:43	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 21:43	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 21:43	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 21:43	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 21:43	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 21:43	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 21:43	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 21:43	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 21:43	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 21:43	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 21:43	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 21:43	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 21:43	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 21:43	WG1688382
Ethylbenzene	ND		0.00250	1	06/14/2021 21:43	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 21:43	WG1688382
Isopropylbenzene	ND		0.00250	1	06/14/2021 21:43	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 21:43	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 21:43	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 21:43	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 21:43	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 21:43	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 21:43	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
Styrene	ND		0.0125	1	06/14/2021 21:43	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 21:43	WG1688382
Toluene	0.0225		0.00500	1	06/14/2021 21:43	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:43	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 21:43	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 21:43	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 21:43	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 21:43	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
1,3,5-Trimethylbenzene	ND		0.00500	1	06/14/2021 21:43	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 21:43	WG1688382
Xylenes, Total	0.0147		0.00650	1	06/14/2021 21:43	WG1688382
(S) Toluene-d8	*98.1*		*75.0-131*		*06/14/2021 21:43*	WG1688382
(S) 4-Bromofluorobenzene	*83.2*		*67.0-138*		*06/14/2021 21:43*	WG1688382
(S) 1,2-Dichloroethane-d4	*85.3*		*70.0-130*		*06/14/2021 21:43*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	24.6		4.00	1	06/14/2021 03:48	WG1686305
C28-C36 Motor Oil Range	91.1		4.00	1	06/14/2021 03:48	WG1686305
(S) o-Terphenyl	*78.7*		*18.0-148*		*06/14/2021 03:48*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Acenaphthene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Acenaphthylene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Chrysene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Fluoranthene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Fluorene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Naphthalene	ND		0.0200	1	06/11/2021 15:32	WG1686318
Phenanthrene	ND		0.00600	1	06/11/2021 15:32	WG1686318
Pyrene	ND		0.00600	1	06/11/2021 15:32	WG1686318
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 15:32	WG1686318
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 15:32	WG1686318
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 15:32	WG1686318
(S) p-Terphenyl-d14	*95.9*		*23.0-120*		*06/11/2021 15:32*	WG1686318
(S) Nitrobenzene-d5	*89.2*		*14.0-149*		*06/11/2021 15:32*	WG1686318
(S) 2-Fluorobiphenyl	*81.5*		*34.0-125*		*06/11/2021 15:32*	WG1686318

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.84		1	06/16/2021 01:03	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 16:55	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.95	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1363880-05 WG1688481: 7.95 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2660		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	240		0.500	1	06/16/2021 00:55	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:55	WG1686076
Copper	7.95		2.00	1	06/16/2021 00:55	WG1686076
Lead	3.95		0.500	1	06/16/2021 00:55	WG1686076
Nickel	8.12		2.00	1	06/16/2021 00:55	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:55	WG1686076
Silver	ND		1.00	1	06/16/2021 00:55	WG1686076
Zinc	22.4		5.00	1	06/16/2021 00:55	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.249		0.200	1	06/16/2021 02:11	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.37		1.00	5	06/15/2021 21:00	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.67		0.100	1	06/12/2021 19:06	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*88.6*		*77.0-120*		*06/12/2021 19:06*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 22:04	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 22:04	WG1688382
Benzene	0.0222		0.00100	1	06/14/2021 22:04	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 22:04	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 22:04	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 22:04	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 22:04	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 22:04	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 22:04	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 22:04	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 22:04	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 22:04	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 22:04	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 22:04	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 22:04	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 22:04	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:04	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 22:04	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 22:04	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 22:04	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 22:04	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 22:04	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 22:04	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 22:04	WG1688382
Ethylbenzene	0.151		0.00250	1	06/14/2021 22:04	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 22:04	WG1688382
Isopropylbenzene	0.0235		0.00250	1	06/14/2021 22:04	WG1688382
p-Isopropyltoluene	0.00518		0.00500	1	06/14/2021 22:04	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 22:04	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 22:04	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 22:04	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 22:04	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 22:04	WG1688382
n-Propylbenzene	0.0268		0.00500	1	06/14/2021 22:04	WG1688382
Styrene	ND		0.0125	1	06/14/2021 22:04	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 22:04	WG1688382
Toluene	1.06		0.00500	1	06/14/2021 22:04	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 22:04	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 22:04	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 22:04	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 22:04	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 22:04	WG1688382
1,2,4-Trimethylbenzene	0.0819		0.00500	1	06/14/2021 22:04	WG1688382
1,2,3-Trimethylbenzene	0.00802		0.00500	1	06/14/2021 22:04	WG1688382
1,3,5-Trimethylbenzene	0.0814		0.00500	1	06/14/2021 22:04	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 22:04	WG1688382
Xylenes, Total	1.89		0.00650	1	06/14/2021 22:04	WG1688382
(S) Toluene-d8	*103*		*75.0-131*		*06/14/2021 22:04*	WG1688382
(S) 4-Bromofluorobenzene	*91.1*		*67.0-138*		*06/14/2021 22:04*	WG1688382
(S) 1,2-Dichloroethane-d4	*84.1*		*70.0-130*		*06/14/2021 22:04*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.9		4.00	1	06/14/2021 04:02	WG1686305
C28-C36 Motor Oil Range	65.8		4.00	1	06/14/2021 04:02	WG1686305
(S) o-Terphenyl	*87.7*		*18.0-148*		*06/14/2021 04:02*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Acenaphthene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Acenaphthylene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Chrysene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Fluoranthene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Fluorene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Naphthalene	ND		0.0200	1	06/11/2021 09:16	WG1686336
Phenanthrene	ND		0.00600	1	06/11/2021 09:16	WG1686336
Pyrene	ND		0.00600	1	06/11/2021 09:16	WG1686336
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:16	WG1686336
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:16	WG1686336
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 09:16	WG1686336
(S) p-Terphenyl-d14	*69.6*		*23.0-120*		*06/11/2021 09:16*	WG1686336
(S) Nitrobenzene-d5	*58.8*		*14.0-149*		*06/11/2021 09:16*	WG1686336
(S) 2-Fluorobiphenyl	*62.4*		*34.0-125*		*06/11/2021 09:16*	WG1686336

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.26		1	06/16/2021 01:06	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 17:11	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-06 WG1687930: 8.12 at 24.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2900		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	245		0.500	1	06/16/2021 00:58	WG1686076
Cadmium	ND		0.500	1	06/16/2021 00:58	WG1686076
Copper	7.17		2.00	1	06/16/2021 00:58	WG1686076
Lead	2.78		0.500	1	06/16/2021 00:58	WG1686076
Nickel	7.18		2.00	1	06/16/2021 00:58	WG1686076
Selenium	ND		2.00	1	06/16/2021 00:58	WG1686076
Silver	ND		1.00	1	06/16/2021 00:58	WG1686076
Zinc	20.7		5.00	1	06/16/2021 00:58	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.272		0.200	1	06/16/2021 02:14	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.16		1.00	5	06/15/2021 21:03	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	5.02		0.100	1	06/12/2021 19:28	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*86.9*		*77.0-120*		*06/12/2021 19:28*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 22:25	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 22:25	WG1688382
Benzene	0.0816		0.00100	1	06/14/2021 22:25	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 22:25	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 22:25	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 22:25	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 22:25	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 22:25	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 22:25	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 22:25	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 22:25	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 22:25	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 22:25	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 22:25	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 22:25	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 22:25	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 22:25	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 22:25	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 22:25	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 22:25	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 22:25	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 22:25	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 22:25	WG1688382
Ethylbenzene	0.120		0.00250	1	06/14/2021 22:25	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 22:25	WG1688382
Isopropylbenzene	0.0166		0.00250	1	06/14/2021 22:25	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 22:25	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 22:25	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 22:25	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 22:25	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 22:25	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 22:25	WG1688382
n-Propylbenzene	0.0120		0.00500	1	06/14/2021 22:25	WG1688382
Styrene	ND		0.0125	1	06/14/2021 22:25	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 22:25	WG1688382
Toluene	1.63		0.00500	1	06/14/2021 22:25	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 22:25	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 22:25	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 22:25	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 22:25	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 22:25	WG1688382
1,2,4-Trimethylbenzene	0.0176		0.00500	1	06/14/2021 22:25	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 22:25	WG1688382
1,3,5-Trimethylbenzene	0.0229		0.00500	1	06/14/2021 22:25	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 22:25	WG1688382
Xylenes, Total	1.16		0.00650	1	06/14/2021 22:25	WG1688382
(S) Toluene-d8	*100*		*75.0-131*		*06/14/2021 22:25*	WG1688382
(S) 4-Bromofluorobenzene	*92.5*		*67.0-138*		*06/14/2021 22:25*	WG1688382
(S) 1,2-Dichloroethane-d4	*82.4*		*70.0-130*		*06/14/2021 22:25*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.1		4.00	1	06/14/2021 04:15	WG1686305
C28-C36 Motor Oil Range	91.9		4.00	1	06/14/2021 04:15	WG1686305
(S) o-Terphenyl	*78.9*		*18.0-148*		*06/14/2021 04:15*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Acenaphthene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Acenaphthylene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Chrysene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Fluoranthene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Fluorene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Naphthalene	ND		0.0200	1	06/11/2021 09:36	WG1686336
Phenanthrene	ND		0.00600	1	06/11/2021 09:36	WG1686336
Pyrene	ND		0.00600	1	06/11/2021 09:36	WG1686336
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:36	WG1686336
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:36	WG1686336
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 09:36	WG1686336
(S) p-Terphenyl-d14	*75.0*		*23.0-120*		*06/11/2021 09:36*	WG1686336
(S) Nitrobenzene-d5	*63.3*		*14.0-149*		*06/11/2021 09:36*	WG1686336
(S) 2-Fluorobiphenyl	*63.1*		*34.0-125*		*06/11/2021 09:36*	WG1686336

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.80		1	06/16/2021 01:08	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 17:16	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-07 WG1687930: 8.19 at 24.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3050		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	188		0.500	1	06/16/2021 01:01	WG1686076
Cadmium	ND		0.500	1	06/16/2021 01:01	WG1686076
Copper	11.2		2.00	1	06/16/2021 01:01	WG1686076
Lead	4.73		0.500	1	06/16/2021 01:01	WG1686076
Nickel	11.6		2.00	1	06/16/2021 01:01	WG1686076
Selenium	ND		2.00	1	06/16/2021 01:01	WG1686076
Silver	ND		1.00	1	06/16/2021 01:01	WG1686076
Zinc	32.3		5.00	1	06/16/2021 01:01	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.300		0.200	1	06/16/2021 02:17	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.24		1.00	5	06/15/2021 21:17	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.57		0.100	1	06/12/2021 19:50	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*90.4*		*77.0-120*		*06/12/2021 19:50*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 23:20	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 23:20	WG1688382
Benzene	0.0467		0.00100	1	06/14/2021 23:20	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 23:20	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 23:20	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 23:20	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 23:20	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 23:20	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 23:20	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 23:20	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 23:20	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 23:20	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 23:20	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 23:20	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 23:20	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 23:20	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 23:20	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 23:20	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 23:20	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 23:20	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 23:20	WG1688382
Ethylbenzene	0.0249		0.00250	1	06/14/2021 23:20	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 23:20	WG1688382
Isopropylbenzene	0.00300		0.00250	1	06/14/2021 23:20	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 23:20	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 23:20	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 23:20	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 23:20	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 23:20	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 23:20	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
Styrene	ND		0.0125	1	06/14/2021 23:20	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 23:20	WG1688382
Toluene	0.426		0.00500	1	06/14/2021 23:20	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 23:20	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 23:20	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 23:20	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 23:20	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 23:20	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 23:20	WG1688382
1,3,5-Trimethylbenzene	0.00525		0.00500	1	06/14/2021 23:20	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 23:20	WG1688382
Xylenes, Total	0.228		0.00650	1	06/14/2021 23:20	WG1688382
(S) Toluene-d8	*104*		*75.0-131*		*06/14/2021 23:20*	WG1688382
(S) 4-Bromofluorobenzene	*91.6*		*67.0-138*		*06/14/2021 23:20*	WG1688382
(S) 1,2-Dichloroethane-d4	*91.9*		*70.0-130*		*06/14/2021 23:20*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	46.5		4.00	1	06/14/2021 04:29	WG1686305
C28-C36 Motor Oil Range	164	E	4.00	1	06/14/2021 04:29	WG1686305
(S) o-Terphenyl	*73.0*		*18.0-148*		*06/14/2021 04:29*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Acenaphthene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Acenaphthylene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Chrysene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Fluoranthene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Fluorene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Naphthalene	ND		0.0200	1	06/11/2021 09:55	WG1686336
Phenanthrene	ND		0.00600	1	06/11/2021 09:55	WG1686336
Pyrene	ND		0.00600	1	06/11/2021 09:55	WG1686336
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:55	WG1686336
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 09:55	WG1686336
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 09:55	WG1686336
(S) p-Terphenyl-d14	*70.2*		*23.0-120*		*06/11/2021 09:55*	WG1686336
(S) Nitrobenzene-d5	*60.8*		*14.0-149*		*06/11/2021 09:55*	WG1686336
(S) 2-Fluorobiphenyl	*59.2*		*34.0-125*		*06/11/2021 09:55*	WG1686336

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.43		1	06/16/2021 01:11	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 17:21	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.25	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-08 WG1687930: 8.25 at 24.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2520		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	192		0.500	1	06/16/2021 01:04	WG1686076
Cadmium	ND		0.500	1	06/16/2021 01:04	WG1686076
Copper	11.9		2.00	1	06/16/2021 01:04	WG1686076
Lead	4.83		0.500	1	06/16/2021 01:04	WG1686076
Nickel	12.9		2.00	1	06/16/2021 01:04	WG1686076
Selenium	ND		2.00	1	06/16/2021 01:04	WG1686076
Silver	ND		1.00	1	06/16/2021 01:04	WG1686076
Zinc	33.9		5.00	1	06/16/2021 01:04	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.289		0.200	1	06/16/2021 02:20	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.05		1.00	5	06/15/2021 21:20	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.20		0.100	1	06/12/2021 20:12	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*82.4*		*77.0-120*		*06/12/2021 20:12*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/14/2021 23:40	WG1688382
Acrylonitrile	ND		0.0125	1	06/14/2021 23:40	WG1688382
Benzene	0.0420		0.00100	1	06/14/2021 23:40	WG1688382
Bromobenzene	ND		0.0125	1	06/14/2021 23:40	WG1688382
Bromodichloromethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Bromoform	ND		0.0250	1	06/14/2021 23:40	WG1688382
Bromomethane	ND		0.0125	1	06/14/2021 23:40	WG1688382
n-Butylbenzene	ND		0.0125	1	06/14/2021 23:40	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/14/2021 23:40	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/14/2021 23:40	WG1688382
Chlorobenzene	ND		0.00250	1	06/14/2021 23:40	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Chloroethane	ND		0.00500	1	06/14/2021 23:40	WG1688382
Chloroform	ND		0.00250	1	06/14/2021 23:40	WG1688382
Chloromethane	ND		0.0125	1	06/14/2021 23:40	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/14/2021 23:40	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/14/2021 23:40	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Dibromomethane	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/14/2021 23:40	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/14/2021 23:40	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/14/2021 23:40	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/14/2021 23:40	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/14/2021 23:40	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/14/2021 23:40	WG1688382
Ethylbenzene	0.0473		0.00250	1	06/14/2021 23:40	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/14/2021 23:40	WG1688382
Isopropylbenzene	0.00607		0.00250	1	06/14/2021 23:40	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/14/2021 23:40	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/14/2021 23:40	WG1688382
Methylene Chloride	ND		0.0250	1	06/14/2021 23:40	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/14/2021 23:40	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/14/2021 23:40	WG1688382
Naphthalene	ND		0.0125	1	06/14/2021 23:40	WG1688382
n-Propylbenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
Styrene	ND		0.0125	1	06/14/2021 23:40	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Tetrachloroethene	ND		0.00250	1	06/14/2021 23:40	WG1688382
Toluene	0.630		0.00500	1	06/14/2021 23:40	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/14/2021 23:40	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/14/2021 23:40	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
Trichloroethene	ND		0.00100	1	06/14/2021 23:40	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/14/2021 23:40	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/14/2021 23:40	WG1688382
1,2,4-Trimethylbenzene	0.0100		0.00500	1	06/14/2021 23:40	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/14/2021 23:40	WG1688382
1,3,5-Trimethylbenzene	0.0121		0.00500	1	06/14/2021 23:40	WG1688382
Vinyl chloride	ND		0.00250	1	06/14/2021 23:40	WG1688382
Xylenes, Total	0.447		0.00650	1	06/14/2021 23:40	WG1688382
(S) Toluene-d8	*99.9*		*75.0-131*		*06/14/2021 23:40*	WG1688382
(S) 4-Bromofluorobenzene	*89.8*		*67.0-138*		*06/14/2021 23:40*	WG1688382
(S) 1,2-Dichloroethane-d4	*86.4*		*70.0-130*		*06/14/2021 23:40*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	54.1		4.00	1	06/14/2021 05:10	WG1686305
C28-C36 Motor Oil Range	202		8.00	2	06/15/2021 13:21	WG1686305
(S) o-Terphenyl	*62.3*		*18.0-148*		*06/14/2021 05:10*	WG1686305
(S) o-Terphenyl	*74.4*		*18.0-148*		*06/15/2021 13:21*	WG1686305

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Acenaphthene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Acenaphthylene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Chrysene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Fluoranthene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Fluorene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Naphthalene	ND		0.0200	1	06/11/2021 10:15	WG1686336
Phenanthrene	ND		0.00600	1	06/11/2021 10:15	WG1686336
Pyrene	ND		0.00600	1	06/11/2021 10:15	WG1686336
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 10:15	WG1686336
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 10:15	WG1686336
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 10:15	WG1686336
(S) p-Terphenyl-d14	*75.6*		*23.0-120*		*06/11/2021 10:15*	WG1686336
(S) Nitrobenzene-d5	*66.3*		*14.0-149*		*06/11/2021 10:15*	WG1686336
(S) 2-Fluorobiphenyl	*64.0*		*34.0-125*		*06/11/2021 10:15*	WG1686336

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.91		1	06/16/2021 01:14	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/16/2021 17:26	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.32	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-09 WG1687930: 8.32 at 24.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1620		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	230		0.500	1	06/16/2021 01:13	WG1686076
Cadmium	ND		0.500	1	06/16/2021 01:13	WG1686076
Copper	12.2		2.00	1	06/16/2021 01:13	WG1686076
Lead	5.32		0.500	1	06/16/2021 01:13	WG1686076
Nickel	11.8		2.00	1	06/16/2021 01:13	WG1686076
Selenium	ND		2.00	1	06/16/2021 01:13	WG1686076
Silver	ND		1.00	1	06/16/2021 01:13	WG1686076
Zinc	34.3		5.00	1	06/16/2021 01:13	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.268		0.200	1	06/16/2021 02:23	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.98		1.00	5	06/15/2021 21:23	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.389		0.100	1	06/12/2021 20:34	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*90.2*		*77.0-120*		*06/12/2021 20:34*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/15/2021 00:01	WG1688382
Acrylonitrile	ND		0.0125	1	06/15/2021 00:01	WG1688382
Benzene	0.00275		0.00100	1	06/15/2021 00:01	WG1688382
Bromobenzene	ND		0.0125	1	06/15/2021 00:01	WG1688382
Bromodichloromethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Bromoform	ND		0.0250	1	06/15/2021 00:01	WG1688382
Bromomethane	ND		0.0125	1	06/15/2021 00:01	WG1688382
n-Butylbenzene	ND		0.0125	1	06/15/2021 00:01	WG1688382
sec-Butylbenzene	ND		0.0125	1	06/15/2021 00:01	WG1688382
tert-Butylbenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
Carbon tetrachloride	ND		0.00500	1	06/15/2021 00:01	WG1688382
Chlorobenzene	ND		0.00250	1	06/15/2021 00:01	WG1688382
Chlorodibromomethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Chloroethane	ND		0.00500	1	06/15/2021 00:01	WG1688382
Chloroform	ND		0.00250	1	06/15/2021 00:01	WG1688382
Chloromethane	ND		0.0125	1	06/15/2021 00:01	WG1688382
2-Chlorotoluene	ND		0.00250	1	06/15/2021 00:01	WG1688382
4-Chlorotoluene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/15/2021 00:01	WG1688382
1,2-Dibromoethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Dibromomethane	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,2-Dichlorobenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,3-Dichlorobenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,4-Dichlorobenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
Dichlorodifluoromethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,1-Dichloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,2-Dichloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,1-Dichloroethene	ND		0.00250	1	06/15/2021 00:01	WG1688382
cis-1,2-Dichloroethene	ND		0.00250	1	06/15/2021 00:01	WG1688382
trans-1,2-Dichloroethene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,2-Dichloropropane	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,1-Dichloropropene	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,3-Dichloropropane	ND		0.00500	1	06/15/2021 00:01	WG1688382
cis-1,3-Dichloropropene	ND		0.00250	1	06/15/2021 00:01	WG1688382
trans-1,3-Dichloropropene	ND		0.00500	1	06/15/2021 00:01	WG1688382
2,2-Dichloropropane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Di-isopropyl ether	ND		0.00100	1	06/15/2021 00:01	WG1688382
Ethylbenzene	0.00430		0.00250	1	06/15/2021 00:01	WG1688382
Hexachloro-1,3-butadiene	ND		0.0250	1	06/15/2021 00:01	WG1688382
Isopropylbenzene	ND		0.00250	1	06/15/2021 00:01	WG1688382
p-Isopropyltoluene	ND		0.00500	1	06/15/2021 00:01	WG1688382
2-Butanone (MEK)	ND		0.100	1	06/15/2021 00:01	WG1688382
Methylene Chloride	ND		0.0250	1	06/15/2021 00:01	WG1688382
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/15/2021 00:01	WG1688382
Methyl tert-butyl ether	ND		0.00100	1	06/15/2021 00:01	WG1688382
Naphthalene	ND		0.0125	1	06/15/2021 00:01	WG1688382
n-Propylbenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
Styrene	ND		0.0125	1	06/15/2021 00:01	WG1688382
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Tetrachloroethene	ND		0.00250	1	06/15/2021 00:01	WG1688382
Toluene	0.0500		0.00500	1	06/15/2021 00:01	WG1688382
1,2,3-Trichlorobenzene	ND		0.0125	1	06/15/2021 00:01	WG1688382
1,2,4-Trichlorobenzene	ND		0.0125	1	06/15/2021 00:01	WG1688382
1,1,1-Trichloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
Trichloroethene	ND		0.00100	1	06/15/2021 00:01	WG1688382
Trichlorofluoromethane	ND		0.00250	1	06/15/2021 00:01	WG1688382
1,2,3-Trichloropropane	ND		0.0125	1	06/15/2021 00:01	WG1688382
1,2,4-Trimethylbenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,2,3-Trimethylbenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
1,3,5-Trimethylbenzene	ND		0.00500	1	06/15/2021 00:01	WG1688382
Vinyl chloride	ND		0.00250	1	06/15/2021 00:01	WG1688382
Xylenes, Total	0.0376		0.00650	1	06/15/2021 00:01	WG1688382
(S) Toluene-d8	*103*		*75.0-131*		*06/15/2021 00:01*	WG1688382
(S) 4-Bromofluorobenzene	*86.7*		*67.0-138*		*06/15/2021 00:01*	WG1688382
(S) 1,2-Dichloroethane-d4	*83.1*		*70.0-130*		*06/15/2021 00:01*	WG1688382

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	33.7		4.00	1	06/12/2021 18:00	WG1687176
C28-C36 Motor Oil Range	127		4.00	1	06/12/2021 18:00	WG1687176
(S) o-Terphenyl	*47.7*		*18.0-148*		*06/12/2021 18:00*	WG1687176

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Acenaphthene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Acenaphthylene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Benzo(a)anthracene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Benzo(b)fluoranthene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Benzo(g,h,i)perylene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Benzo(k)fluoranthene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Chrysene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Fluoranthene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Fluorene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Naphthalene	ND		0.0200	1	06/11/2021 10:35	WG1686336
Phenanthrene	ND		0.00600	1	06/11/2021 10:35	WG1686336
Pyrene	ND		0.00600	1	06/11/2021 10:35	WG1686336
1-Methylnaphthalene	ND		0.0200	1	06/11/2021 10:35	WG1686336
2-Methylnaphthalene	ND		0.0200	1	06/11/2021 10:35	WG1686336
2-Chloronaphthalene	ND		0.0200	1	06/11/2021 10:35	WG1686336
(S) p-Terphenyl-d14	*71.9*		*23.0-120*		*06/11/2021 10:35*	WG1686336
(S) Nitrobenzene-d5	*59.7*		*14.0-149*		*06/11/2021 10:35*	WG1686336
(S) 2-Fluorobiphenyl	*61.7*		*34.0-125*		*06/11/2021 10:35*	WG1686336

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	15.6		1	06/16/2021 01:17	WG1687904

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND	J6	1.00	1	06/16/2021 17:34	WG1687706

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.14	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-10 WG1687930: 8.14 at 24.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1970		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	1400		0.500	1	06/16/2021 01:16	WG1686076
Cadmium	ND		0.500	1	06/16/2021 01:16	WG1686076
Copper	9.64		2.00	1	06/16/2021 01:16	WG1686076
Lead	16.8		0.500	1	06/16/2021 01:16	WG1686076
Nickel	9.99		2.00	1	06/16/2021 01:16	WG1686076
Selenium	ND		2.00	1	06/16/2021 01:16	WG1686076
Silver	ND		1.00	1	06/16/2021 01:16	WG1686076
Zinc	59.6		5.00	1	06/16/2021 01:16	WG1686076

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.457		0.200	1	06/16/2021 02:26	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.28		1.00	5	06/15/2021 21:27	WG1686071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4820		50.0	500	06/12/2021 20:56	WG1687394
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*06/12/2021 20:56*	WG1687394

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		4.00	80	06/17/2021 13:05	WG1690232
Acrylonitrile	ND		1.00	80	06/17/2021 13:05	WG1690232
Benzene	0.226		0.0800	80	06/17/2021 13:05	WG1690232
Bromobenzene	ND		1.00	80	06/17/2021 13:05	WG1690232
Bromodichloromethane	ND		0.200	80	06/17/2021 13:05	WG1690232
Bromoform	ND		2.00	80	06/17/2021 13:05	WG1690232
Bromomethane	ND		1.00	80	06/17/2021 13:05	WG1690232
n-Butylbenzene	8.35		1.00	80	06/17/2021 13:05	WG1690232
sec-Butylbenzene	6.13		1.00	80	06/17/2021 13:05	WG1690232
tert-Butylbenzene	0.786		0.400	80	06/17/2021 13:05	WG1690232
Carbon tetrachloride	ND		0.400	80	06/17/2021 13:05	WG1690232
Chlorobenzene	ND		0.200	80	06/17/2021 13:05	WG1690232
Chlorodibromomethane	ND		0.200	80	06/17/2021 13:05	WG1690232
Chloroethane	ND		0.400	80	06/17/2021 13:05	WG1690232
Chloroform	ND		0.200	80	06/17/2021 13:05	WG1690232
Chloromethane	ND		1.00	80	06/17/2021 13:05	WG1690232
2-Chlorotoluene	ND		0.200	80	06/17/2021 13:05	WG1690232
4-Chlorotoluene	ND		0.400	80	06/17/2021 13:05	WG1690232
1,2-Dibromo-3-Chloropropane	ND		2.00	80	06/17/2021 13:05	WG1690232
1,2-Dibromoethane	ND		0.200	80	06/17/2021 13:05	WG1690232
Dibromomethane	ND		0.400	80	06/17/2021 13:05	WG1690232
1,2-Dichlorobenzene	ND		0.400	80	06/17/2021 13:05	WG1690232
1,3-Dichlorobenzene	ND		0.400	80	06/17/2021 13:05	WG1690232
1,4-Dichlorobenzene	ND		0.400	80	06/17/2021 13:05	WG1690232
Dichlorodifluoromethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,1-Dichloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,2-Dichloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,1-Dichloroethene	ND		0.200	80	06/17/2021 13:05	WG1690232
cis-1,2-Dichloroethene	ND		0.200	80	06/17/2021 13:05	WG1690232
trans-1,2-Dichloroethene	ND		0.400	80	06/17/2021 13:05	WG1690232
1,2-Dichloropropane	ND		0.400	80	06/17/2021 13:05	WG1690232
1,1-Dichloropropene	ND		0.200	80	06/17/2021 13:05	WG1690232
1,3-Dichloropropane	ND		0.400	80	06/17/2021 13:05	WG1690232
cis-1,3-Dichloropropene	ND		0.200	80	06/17/2021 13:05	WG1690232
trans-1,3-Dichloropropene	ND		0.400	80	06/17/2021 13:05	WG1690232
2,2-Dichloropropane	ND		0.200	80	06/17/2021 13:05	WG1690232
Di-isopropyl ether	ND		0.0800	80	06/17/2021 13:05	WG1690232
Ethylbenzene	4.80		0.200	80	06/17/2021 13:05	WG1690232
Hexachloro-1,3-butadiene	ND		2.00	80	06/17/2021 13:05	WG1690232
Isopropylbenzene	7.42		0.200	80	06/17/2021 13:05	WG1690232
p-Isopropyltoluene	11.1		0.400	80	06/17/2021 13:05	WG1690232
2-Butanone (MEK)	ND		8.00	80	06/17/2021 13:05	WG1690232
Methylene Chloride	ND		2.00	80	06/17/2021 13:05	WG1690232
4-Methyl-2-pentanone (MIBK)	ND		2.00	80	06/17/2021 13:05	WG1690232
Methyl tert-butyl ether	ND		0.0800	80	06/17/2021 13:05	WG1690232
Naphthalene	36.0		1.00	80	06/17/2021 13:05	WG1690232
n-Propylbenzene	8.23		0.400	80	06/17/2021 13:05	WG1690232
Styrene	ND		1.00	80	06/17/2021 13:05	WG1690232
1,1,1,2-Tetrachloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,1,2,2-Tetrachloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,1,2-Trichlorotrifluoroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
Tetrachloroethene	ND		0.200	80	06/17/2021 13:05	WG1690232
Toluene	16.0		0.400	80	06/17/2021 13:05	WG1690232
1,2,3-Trichlorobenzene	ND		1.00	80	06/17/2021 13:05	WG1690232
1,2,4-Trichlorobenzene	ND		1.00	80	06/17/2021 13:05	WG1690232
1,1,1-Trichloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.200	80	06/17/2021 13:05	WG1690232
Trichloroethene	ND		0.0800	80	06/17/2021 13:05	WG1690232
Trichlorofluoromethane	ND		0.200	80	06/17/2021 13:05	WG1690232
1,2,3-Trichloropropane	ND		1.00	80	06/17/2021 13:05	WG1690232
1,2,4-Trimethylbenzene	187		0.400	80	06/17/2021 13:05	WG1690232
1,2,3-Trimethylbenzene	52.2		0.400	80	06/17/2021 13:05	WG1690232
1,3,5-Trimethylbenzene	104		0.400	80	06/17/2021 13:05	WG1690232
Vinyl chloride	ND		0.200	80	06/17/2021 13:05	WG1690232
Xylenes, Total	252		0.520	80	06/17/2021 13:05	WG1690232
(S) Toluene-d8	*97.9*		*75.0-131*		*06/17/2021 13:05*	WG1690232
(S) 4-Bromofluorobenzene	*130*		*67.0-138*		*06/17/2021 13:05*	WG1690232
(S) 1,2-Dichloroethane-d4	*99.7*		*70.0-130*		*06/17/2021 13:05*	WG1690232

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20300		400	100	06/15/2021 06:18	WG1687176
C28-C36 Motor Oil Range	9340		400	100	06/15/2021 06:18	WG1687176
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*06/15/2021 06:18*	WG1687176

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/11/2021 16:13	WG1686336
Acenaphthene	ND		0.120	20	06/12/2021 06:43	WG1686336
Acenaphthylene	ND		0.120	20	06/12/2021 06:43	WG1686336
Benzo(a)anthracene	0.101		0.00600	1	06/11/2021 16:13	WG1686336
Benzo(a)pyrene	ND		0.00600	1	06/11/2021 16:13	WG1686336
Benzo(b)fluoranthene	0.142		0.00600	1	06/11/2021 16:13	WG1686336
Benzo(g,h,i)perylene	0.0435		0.00600	1	06/11/2021 16:13	WG1686336
Benzo(k)fluoranthene	0.0742		0.00600	1	06/11/2021 16:13	WG1686336
Chrysene	0.543		0.00600	1	06/11/2021 16:13	WG1686336
Dibenz(a,h)anthracene	ND		0.00600	1	06/11/2021 16:13	WG1686336
Fluoranthene	0.564		0.00600	1	06/11/2021 16:13	WG1686336
Fluorene	6.58		0.120	20	06/12/2021 06:43	WG1686336
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/11/2021 16:13	WG1686336
Naphthalene	30.7		0.400	20	06/12/2021 06:43	WG1686336
Phenanthrene	2.28		0.00600	1	06/11/2021 16:13	WG1686336
Pyrene	0.361		0.00600	1	06/11/2021 16:13	WG1686336
1-Methylnaphthalene	60.9		0.400	20	06/12/2021 06:43	WG1686336
2-Methylnaphthalene	71.1		2.00	100	06/14/2021 07:41	WG1686336
2-Chloronaphthalene	ND		0.400	20	06/12/2021 06:43	WG1686336
(S) p-Terphenyl-d14	*118*	J7	*23.0-120*		*06/12/2021 06:43*	WG1686336
(S) p-Terphenyl-d14	*116*	J7	*23.0-120*		*06/14/2021 07:41*	WG1686336
(S) p-Terphenyl-d14	*107*		*23.0-120*		*06/11/2021 16:13*	WG1686336
(S) Nitrobenzene-d5	*0.000*	J7	*14.0-149*		*06/12/2021 06:43*	WG1686336
(S) Nitrobenzene-d5	*0.000*	J2	*14.0-149*		*06/11/2021 16:13*	WG1686336
(S) Nitrobenzene-d5	*0.000*	J7	*14.0-149*		*06/14/2021 07:41*	WG1686336
(S) 2-Fluorobiphenyl	*0.000*	J2	*34.0-125*		*06/11/2021 16:13*	WG1686336
(S) 2-Fluorobiphenyl	*0.000*	J7	*34.0-125*		*06/14/2021 07:41*	WG1686336
(S) 2-Fluorobiphenyl	*450*	J7	*34.0-125*		*06/12/2021 06:43*	WG1686336

Sample Narrative:

L1363880-10 WG1686336: Surrogate failure due to matrix interference

L1363880-10 WG1686336: IS/SURR failed on lower dilution.

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.153		1	06/16/2021 01:20	WG1687904

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.50	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-11 WG1687930: 8.5 at 24.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	244		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.463		0.200	1	06/16/2021 02:29	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.22		1.00	5	06/15/2021 21:30	WG1686071

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0811		1	06/16/2021 01:23	WG1687904

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.43	T8	1	06/14/2021 16:56	WG1687930

Sample Narrative:

L1363880-12 WG1687930: 8.43 at 24.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	198		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.315		0.200	1	06/16/2021 02:32	WG1687906

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.5		1.00	5	06/15/2021 21:33	WG1686071

QUALITY CONTROL SUMMARY

L1363880-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3668062-1 06/16/21 09:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1365013-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1365013-02 06/16/21 09:59 • (DUP) R3668062-3 06/16/21 10:04

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	0.000		20

L1363880-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1363880-01 06/16/21 16:29 • (DUP) R3668062-4 06/16/21 16:34

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3668062-2 06/16/21 09:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.90	99.0	80.0-120	

L1363880-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363880-10 06/16/21 17:34 • (MS) R3668062-5 06/16/21 17:42 • (MSD) R3668062-6 06/16/21 17:47

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 %
Hexavalent Chromium	20.0	ND	10.8	10.9	54.2	54.6	1	75.0-125	J6	J6	0.816	20

L1363880-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1363880-10 06/16/21 17:34 • (MS) R3668062-7 06/16/21 17:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	653	ND	598	91.6	50	75.0-125	

L1365013-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365013-01 06/14/21 16:56 • (DUP) R3667158-3 06/14/21 16:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.92	7.95	1	0.378		1

Sample Narrative:

OS: 7.92 at 24.9C

DUP: 7.95 at 24.3C

Laboratory Control Sample (LCS)

(LCS) R3667158-1 06/14/21 16:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.05 at 24.6C

L1360662-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1360662-08 06/15/21 11:00 • (DUP) R3667584-2 06/15/21 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.91	7.92	1	0.126		1

Sample Narrative:

OS: 7.91 at 21.5C

DUP: 7.92 at 21.6C

L1361026-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1361026-01 06/15/21 11:00 • (DUP) R3667584-3 06/15/21 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.93	6.94	1	0.144		1

Sample Narrative:

OS: 6.93 at 22.3C

DUP: 6.94 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R3667584-1 06/15/21 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.07 at 21.6C

Method Blank (MB)

(MB) R3667231-1 06/15/21 06:57

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1363871-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1363871-07 06/15/21 06:57 • (DUP) R3667231-3 06/15/21 06:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	291	286	1	1.63		20

L1364464-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1364464-02 06/15/21 06:57 • (DUP) R3667231-4 06/15/21 06:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	879	879	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3667231-2 06/15/21 06:57

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	264	98.6	85.0-115	

Method Blank (MB)

(MB) R3667752-1 06/16/21 00:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3667752-2 06/16/21 00:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	94.4	94.4	80.0-120	
Cadmium	100	90.8	90.8	80.0-120	
Copper	100	91.1	91.1	80.0-120	
Lead	100	91.6	91.6	80.0-120	
Nickel	100	94.5	94.5	80.0-120	
Selenium	100	93.3	93.3	80.0-120	
Silver	20.0	18.1	90.4	80.0-120	
Zinc	100	91.4	91.4	80.0-120	

L1364498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364498-01 06/16/21 00:07 • (MS) R3667752-5 06/16/21 00:16 • (MSD) R3667752-6 06/16/21 00:19

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 %
Barium	99.7	224	353	345	129	121	1	75.0-125	J5		2.37	20
Cadmium	99.7	ND	92.5	88.8	92.4	88.6	1	75.0-125			4.15	20
Copper	99.7	11.8	107	103	95.2	91.1	1	75.0-125			3.96	20
Lead	99.7	9.50	107	103	97.9	93.8	1	75.0-125			3.86	20
Nickel	99.7	21.8	126	124	104	102	1	75.0-125			1.65	20
Selenium	99.7	ND	96.9	92.3	95.9	91.3	1	75.0-125			4.85	20
Silver	20.0	ND	18.8	18.0	94.2	89.9	1	75.0-125			4.67	20
Zinc	99.7	62.5	160	160	97.7	97.0	1	75.0-125			0.396	20

Method Blank (MB)

(MB) R3667947-1 06/16/21 01:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3667947-2 06/16/21 01:34 • (LCSD) R3667947-3 06/16/21 01:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.984	0.990	98.4	99.0	80.0-120			0.563	20

QUALITY CONTROL SUMMARY

L1363880-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3667689-1 06/15/21 19:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3667689-2 06/15/21 19:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	88.7	88.7	80.0-120	

L1364498-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364498-01 06/15/21 19:44 • (MS) R3667689-5 06/15/21 19:54 • (MSD) R3667689-6 06/15/21 19:57

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	99.7	10.4	104	98.3	93.2	87.9	5	75.0-125			5.28	20

Method Blank (MB)

(MB) R3666508-2 06/12/21 11:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*90.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3666508-1 06/12/21 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.05	91.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1363880-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363880-10 06/12/21 20:56 • (MS) R3666508-3 06/12/21 21:18 • (MSD) R3666508-4 06/12/21 21:40

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 %
TPH (GC/FID) Low Fraction	2720	4820	6340	6420	55.9	58.8	500	10.0-151	E	E	1.25	28
(S) a,a,a-Trifluorotoluene(FID)					*105*	*104*		*77.0-120*				

Method Blank (MB)

(MB) R3668372-2 06/14/21 14:17

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

Method Blank (MB)

(MB) R3668372-2 06/14/21 14:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	0.0988	J	0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	0.00123	J	0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*97.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3668372-1 06/14/21 12:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.496	79.4	10.0-160	
Acrylonitrile	0.625	0.425	68.0	45.0-153	
Benzene	0.125	0.122	97.6	70.0-123	
Bromobenzene	0.125	0.131	105	73.0-121	
Bromodichloromethane	0.125	0.124	99.2	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3668372-1 06/14/21 12:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.124	99.2	64.0-132	
Bromomethane	0.125	0.117	93.6	56.0-147	
n-Butylbenzene	0.125	0.119	95.2	68.0-135	
sec-Butylbenzene	0.125	0.119	95.2	74.0-130	
tert-Butylbenzene	0.125	0.131	105	75.0-127	
Carbon tetrachloride	0.125	0.123	98.4	66.0-128	
Chlorobenzene	0.125	0.117	93.6	76.0-128	
Chlorodibromomethane	0.125	0.124	99.2	74.0-127	
Chloroethane	0.125	0.122	97.6	61.0-134	
Chloroform	0.125	0.124	99.2	72.0-123	
Chloromethane	0.125	0.117	93.6	51.0-138	
2-Chlorotoluene	0.125	0.125	100	75.0-124	
4-Chlorotoluene	0.125	0.130	104	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.100	80.0	59.0-130	
1,2-Dibromoethane	0.125	0.125	100	74.0-128	
Dibromomethane	0.125	0.121	96.8	75.0-122	
1,2-Dichlorobenzene	0.125	0.122	97.6	76.0-124	
1,3-Dichlorobenzene	0.125	0.119	95.2	76.0-125	
1,4-Dichlorobenzene	0.125	0.114	91.2	77.0-121	
Dichlorodifluoromethane	0.125	0.124	99.2	43.0-156	
1,1-Dichloroethane	0.125	0.118	94.4	70.0-127	
1,2-Dichloroethane	0.125	0.109	87.2	65.0-131	
1,1-Dichloroethene	0.125	0.136	109	65.0-131	
cis-1,2-Dichloroethene	0.125	0.125	100	73.0-125	
trans-1,2-Dichloroethene	0.125	0.127	102	71.0-125	
1,2-Dichloropropane	0.125	0.131	105	74.0-125	
1,1-Dichloropropene	0.125	0.133	106	73.0-125	
1,3-Dichloropropane	0.125	0.126	101	80.0-125	
cis-1,3-Dichloropropene	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.130	104	73.0-127	
2,2-Dichloropropane	0.125	0.114	91.2	59.0-135	
Di-isopropyl ether	0.125	0.124	99.2	60.0-136	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.127	102	57.0-150	
Isopropylbenzene	0.125	0.123	98.4	72.0-127	
p-Isopropyltoluene	0.125	0.129	103	72.0-133	
2-Butanone (MEK)	0.625	0.500	80.0	30.0-160	
Methylene Chloride	0.125	0.112	89.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.590	94.4	56.0-143	
Methyl tert-butyl ether	0.125	0.119	95.2	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3668372-1 06/14/21 12:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.120	96.0	59.0-130	
n-Propylbenzene	0.125	0.116	92.8	74.0-126	
Styrene	0.125	0.118	94.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.116	92.8	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.112	89.6	68.0-128	
Tetrachloroethene	0.125	0.136	109	70.0-136	
Toluene	0.125	0.119	95.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.115	92.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.138	110	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.139	111	62.0-137	
1,1,1-Trichloroethane	0.125	0.140	112	69.0-126	
1,1,2-Trichloroethane	0.125	0.123	98.4	78.0-123	
Trichloroethene	0.125	0.143	114	76.0-126	
Trichlorofluoromethane	0.125	0.116	92.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.134	107	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.143	114	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.126	101	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.119	95.2	73.0-127	
Vinyl chloride	0.125	0.136	109	63.0-134	
Xylenes, Total	0.375	0.362	96.5	72.0-127	
(S) Toluene-d8			*96.5*	*75.0-131*	
(S) 4-Bromofluorobenzene			*87.7*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*95.2*	*70.0-130*	

Method Blank (MB)

(MB) R3668529-2 06/17/21 11:21

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

Method Blank (MB)

(MB) R3668529-2 06/17/21 11:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*94.9*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3668529-1 06/17/21 10:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.788	126	10.0-160	
Acrylonitrile	0.625	0.607	97.1	45.0-153	
Benzene	0.125	0.123	98.4	70.0-123	
Bromobenzene	0.125	0.130	104	73.0-121	
Bromodichloromethane	0.125	0.128	102	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3668529-1 06/17/21 10:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.135	108	64.0-132	
Bromomethane	0.125	0.115	92.0	56.0-147	
n-Butylbenzene	0.125	0.121	96.8	68.0-135	
sec-Butylbenzene	0.125	0.123	98.4	74.0-130	
tert-Butylbenzene	0.125	0.134	107	75.0-127	
Carbon tetrachloride	0.125	0.122	97.6	66.0-128	
Chlorobenzene	0.125	0.124	99.2	76.0-128	
Chlorodibromomethane	0.125	0.127	102	74.0-127	
Chloroethane	0.125	0.127	102	61.0-134	
Chloroform	0.125	0.128	102	72.0-123	
Chloromethane	0.125	0.130	104	51.0-138	
2-Chlorotoluene	0.125	0.121	96.8	75.0-124	
4-Chlorotoluene	0.125	0.144	115	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0831	66.5	59.0-130	
1,2-Dibromoethane	0.125	0.127	102	74.0-128	
Dibromomethane	0.125	0.122	97.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.121	96.8	76.0-124	
1,3-Dichlorobenzene	0.125	0.124	99.2	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	96.0	77.0-121	
Dichlorodifluoromethane	0.125	0.122	97.6	43.0-156	
1,1-Dichloroethane	0.125	0.127	102	70.0-127	
1,2-Dichloroethane	0.125	0.120	96.0	65.0-131	
1,1-Dichloroethene	0.125	0.148	118	65.0-131	
cis-1,2-Dichloroethene	0.125	0.133	106	73.0-125	
trans-1,2-Dichloroethene	0.125	0.136	109	71.0-125	
1,2-Dichloropropane	0.125	0.133	106	74.0-125	
1,1-Dichloropropene	0.125	0.134	107	73.0-125	
1,3-Dichloropropane	0.125	0.130	104	80.0-125	
cis-1,3-Dichloropropene	0.125	0.137	110	76.0-127	
trans-1,3-Dichloropropene	0.125	0.136	109	73.0-127	
2,2-Dichloropropane	0.125	0.138	110	59.0-135	
Di-isopropyl ether	0.125	0.131	105	60.0-136	
Ethylbenzene	0.125	0.131	105	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.115	92.0	57.0-150	
Isopropylbenzene	0.125	0.136	109	72.0-127	
p-Isopropyltoluene	0.125	0.130	104	72.0-133	
2-Butanone (MEK)	0.625	0.691	111	30.0-160	
Methylene Chloride	0.125	0.127	102	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.602	96.3	56.0-143	
Methyl tert-butyl ether	0.125	0.137	110	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3668529-1 06/17/21 10:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0794	63.5	59.0-130	
n-Propylbenzene	0.125	0.116	92.8	74.0-126	
Styrene	0.125	0.131	105	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.123	98.4	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.113	90.4	68.0-128	
Tetrachloroethene	0.125	0.136	109	70.0-136	
Toluene	0.125	0.119	95.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.136	109	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0902	72.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.108	86.4	62.0-137	
1,1,1-Trichloroethane	0.125	0.140	112	69.0-126	
1,1,2-Trichloroethane	0.125	0.126	101	78.0-123	
Trichloroethene	0.125	0.133	106	76.0-126	
Trichlorofluoromethane	0.125	0.119	95.2	61.0-142	
1,2,3-Trichloropropane	0.125	0.134	107	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.144	115	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.131	105	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.118	94.4	73.0-127	
Vinyl chloride	0.125	0.135	108	63.0-134	
Xylenes, Total	0.375	0.400	107	72.0-127	
(S) Toluene-d8			*93.1*	*75.0-131*	
(S) 4-Bromofluorobenzene			*92.4*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*93.3*	*70.0-130*	

QUALITY CONTROL SUMMARY

L1363880-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3666417-1 06/11/21 17:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*71.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3666417-2 06/11/21 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.2	82.4	50.0-150	
(S) o-Terphenyl			*88.3*	*18.0-148*	

L1363880-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363880-07 06/14/21 04:29 • (MS) R3666953-1 06/14/21 04:43 • (MSD) R3666953-2 06/14/21 04:56

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 %
C10-C28 Diesel Range	48.8	46.5	83.3	80.4	75.4	69.3	1	50.0-150			3.54	20
(S) o-Terphenyl					*69.7*	*70.2*		*18.0-148*				

Method Blank (MB)

(MB) R3667209-1 06/12/21 12:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*64.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3667209-2 06/12/21 13:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.9	69.8	50.0-150	
(S) o-Terphenyl			*85.9*	*18.0-148*	

Method Blank (MB)

(MB) R3666345-2 06/11/21 08:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*60.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*67.1*			*34.0-125*
(S) p-Terphenyl-d14	*88.4*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3666345-1 06/11/21 08:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0518	64.8	50.0-126	
Acenaphthene	0.0800	0.0586	73.3	50.0-120	
Acenaphthylene	0.0800	0.0581	72.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0580	72.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0545	68.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0600	75.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0583	72.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0588	73.5	49.0-125	
Chrysene	0.0800	0.0628	78.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0561	70.1	47.0-125	
Fluoranthene	0.0800	0.0627	78.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3666345-1 06/11/21 08:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0605	75.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0576	72.0	46.0-125	
Naphthalene	0.0800	0.0559	69.9	50.0-120	
Phenanthrene	0.0800	0.0536	67.0	47.0-120	
Pyrene	0.0800	0.0563	70.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0628	78.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0588	73.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0565	70.6	50.0-120	
(S) Nitrobenzene-d5			*84.3*	*14.0-149*	
(S) 2-Fluorobiphenyl			*81.1*	*34.0-125*	
(S) p-Terphenyl-d14			*89.3*	*23.0-120*	

L1363493-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363493-53 06/11/21 09:16 • (MS) R3666345-3 06/11/21 09:34 • (MSD) R3666345-4 06/11/21 09:51

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 %
Anthracene	0.0792	ND	0.0480	0.0421	60.6	53.2	1	10.0-145			13.1	30
Acenaphthene	0.0792	ND	0.0540	0.0475	68.2	60.0	1	14.0-127			12.8	27
Acenaphthylene	0.0792	ND	0.0523	0.0465	66.0	58.7	1	21.0-124			11.7	25
Benzo(a)anthracene	0.0792	ND	0.0549	0.0464	69.3	58.6	1	10.0-139			16.8	30
Benzo(a)pyrene	0.0792	ND	0.0530	0.0448	66.9	56.6	1	10.0-141			16.8	31
Benzo(b)fluoranthene	0.0792	ND	0.0569	0.0475	71.8	60.0	1	10.0-140			18.0	36
Benzo(g,h,i)perylene	0.0792	ND	0.0547	0.0462	69.1	58.3	1	10.0-140			16.8	33
Benzo(k)fluoranthene	0.0792	ND	0.0540	0.0461	68.2	58.2	1	10.0-137			15.8	31
Chrysene	0.0792	ND	0.0595	0.0502	75.1	63.4	1	10.0-145			17.0	30
Dibenz(a,h)anthracene	0.0792	ND	0.0511	0.0424	64.5	53.5	1	10.0-132			18.6	31
Fluoranthene	0.0792	ND	0.0578	0.0520	73.0	65.7	1	10.0-153			10.6	33
Fluorene	0.0792	ND	0.0578	0.0488	73.0	61.6	1	11.0-130			16.9	29
Indeno(1,2,3-cd)pyrene	0.0792	ND	0.0533	0.0452	67.3	57.1	1	10.0-137			16.4	32
Naphthalene	0.0792	ND	0.0493	0.0431	62.2	54.4	1	10.0-135			13.4	27
Phenanthrene	0.0792	ND	0.0510	0.0455	64.4	57.4	1	10.0-144			11.4	31
Pyrene	0.0792	ND	0.0572	0.0487	72.2	61.5	1	10.0-148			16.1	35
1-Methylnaphthalene	0.0792	ND	0.0564	0.0486	71.2	61.4	1	10.0-142			14.9	28
2-Methylnaphthalene	0.0792	ND	0.0524	0.0465	66.2	58.7	1	10.0-137			11.9	28
2-Chloronaphthalene	0.0792	ND	0.0521	0.0446	65.8	56.3	1	29.0-120			15.5	24
(S) Nitrobenzene-d5					*83.3*	*77.2*		*14.0-149*				
(S) 2-Fluorobiphenyl					*74.6*	*69.5*		*34.0-125*				
(S) p-Terphenyl-d14					*84.6*	*74.3*		*23.0-120*				

Method Blank (MB)

(MB) R3666348-2 06/11/21 08:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*50.2*			*14.0-149*
(S) 2-Fluorobiphenyl	*55.5*			*34.0-125*
(S) p-Terphenyl-d14	*76.0*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3666348-1 06/11/21 08:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0636	79.5	50.0-126	
Acenaphthene	0.0800	0.0604	75.5	50.0-120	
Acenaphthylene	0.0800	0.0682	85.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0653	81.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0545	68.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0513	64.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0501	62.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0529	66.1	49.0-125	
Chrysene	0.0800	0.0606	75.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0491	61.4	47.0-125	
Fluoranthene	0.0800	0.0626	78.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3666348-1 06/11/21 08:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0649	81.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0520	65.0	46.0-125	
Naphthalene	0.0800	0.0578	72.3	50.0-120	
Phenanthrene	0.0800	0.0601	75.1	47.0-120	
Pyrene	0.0800	0.0629	78.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0619	77.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0598	74.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0597	74.6	50.0-120	
(S) Nitrobenzene-d5			*72.5*	*14.0-149*	
(S) 2-Fluorobiphenyl			*73.4*	*34.0-125*	
(S) p-Terphenyl-d14			*88.2*	*23.0-120*	

L1363932-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1363932-02 06/11/21 13:34 • (MS) R3666348-3 06/11/21 13:54 • (MSD) R3666348-4 06/11/21 14:14

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 %
Anthracene	0.0756	ND	0.0550	0.0467	72.8	61.8	1	10.0-145			16.3	30
Acenaphthene	0.0756	ND	0.0524	0.0447	69.3	59.1	1	14.0-127			15.9	27
Acenaphthylene	0.0756	ND	0.0582	0.0495	77.0	65.5	1	21.0-124			16.2	25
Benzo(a)anthracene	0.0756	ND	0.0537	0.0441	71.0	58.3	1	10.0-139			19.6	30
Benzo(a)pyrene	0.0756	ND	0.0494	0.0396	65.3	52.4	1	10.0-141			22.0	31
Benzo(b)fluoranthene	0.0756	ND	0.0448	0.0361	59.3	47.8	1	10.0-140			21.5	36
Benzo(g,h,i)perylene	0.0756	ND	0.0465	0.0376	61.5	49.7	1	10.0-140			21.2	33
Benzo(k)fluoranthene	0.0756	ND	0.0471	0.0387	62.3	51.2	1	10.0-137			19.6	31
Chrysene	0.0756	ND	0.0530	0.0445	70.1	58.9	1	10.0-145			17.4	30
Dibenz(a,h)anthracene	0.0756	ND	0.0416	0.0349	55.0	46.2	1	10.0-132			17.5	31
Fluoranthene	0.0756	ND	0.0550	0.0459	72.8	60.7	1	10.0-153			18.0	33
Fluorene	0.0756	ND	0.0558	0.0481	73.8	63.6	1	11.0-130			14.8	29
Indeno(1,2,3-cd)pyrene	0.0756	ND	0.0423	0.0348	56.0	46.0	1	10.0-137			19.5	32
Naphthalene	0.0756	ND	0.0521	0.0443	68.9	58.6	1	10.0-135			16.2	27
Phenanthrene	0.0756	ND	0.0534	0.0452	70.6	59.8	1	10.0-144			16.6	31
Pyrene	0.0756	ND	0.0572	0.0493	75.7	65.2	1	10.0-148			14.8	35
1-Methylnaphthalene	0.0756	ND	0.0542	0.0459	71.7	60.7	1	10.0-142			16.6	28
2-Methylnaphthalene	0.0756	ND	0.0524	0.0451	69.3	59.7	1	10.0-137			15.0	28
2-Chloronaphthalene	0.0756	ND	0.0526	0.0446	69.6	59.0	1	29.0-120			16.5	24
(S) Nitrobenzene-d5					*74.4*	*67.1*		*14.0-149*				
(S) 2-Fluorobiphenyl					*73.6*	*68.8*		*34.0-125*				
(S) p-Terphenyl-d14					*83.9*	*81.9*		*23.0-120*				

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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
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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
T8	Sample(s) received past/too close to holding time expiration.

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:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute, CO~~ Debeque CO

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1363880
J184

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR						Rem./Contaminant	Sample # (lab only)
20210608-Texaco Fee-62-14-SB1 (5-7)	Grab	SS	5-7'	6/8/21	1130	2	X	X	X	X	X							-01
20210608-Texaco Fee-62-14-SB1 (10-12)			10-12'		1145	2	X	X	X	X	X							-02
20210608-Texaco Fee-62-14-SB1 (15-17)			15-17'		1205	2	X	X	X	X	X							-03
20210608-Texaco Fee-62-14-SB1 (20-22)			20-22'		1225	2	X	X	X	X	X							-04
20210608-Texaco Fee-62-14-SB1 (25-27)			25-27'		1245	2	X	X	X	X	X							-05
20210608-Texaco Fee-62-14-SB1 (30-32)			30-32'		1310	2	X	X	X	X	X							-06
20210608-Texaco Fee-62-14-SB1 (35-37)			35-37'		1340	2	X	X	X	X	X							-07
20210608-Texaco Fee-62-14-SB1 (40-42)			40-42'		1400	2	X	X	X	X	X							-08
20210608-Texaco Fee-62-14-SB1 (45-47)			45-47'		1500	2	X	X	X	X	X							-09
20210608-Texaco Fee-62-14-Screen-PDR (0-6")			0-6"		1220	2	X	X	X	X	X							-10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	6/8/21	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: AB °C Bottles Received:	COC Seal Intact: ____Y ____N ____NA ✓
	6/8/21	1730		21 to 21	24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	pH Checked:	NCF:
			T. Robertson	6/9/21	1015		

TB=0 C883 0083 8945

Company Name/Address:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute, CO~~ Debeque CO

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature): [signature]
Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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Phone: 800-767-5859
Fax: 615-758-5859

L# 1363880
Table #
Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR	Arsenic	HWS Boron				Rem./Contaminant	Sample # (lab only)
20210608-TexacoFed-62-14-BKGND-1 (12-18")	Grab	SS	12-18"	6/8/21	1355	2		✓			X	X	X					-11
20210608-TexacoFed-62-14-BKGND-1 (12")	1	1	12"	1	1435	2					X	X	X					-12

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
[signature]	6/8/21	1700	[signature]		
Relinquished by : (Signature) [signature]	Date: 6/8/21	Time: 1730	Received by: (Signature)	Temp: °C 2.1+0.5=2.1 Bottles Received: 24	COC Seal Intact: ____Y ____N ____NA ✓
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) T. Robertson	Date: 6/9/21 Time: 1015	pH Checked: / NCF:

TB=0 4883 0083 8945

ANALYTICAL REPORT

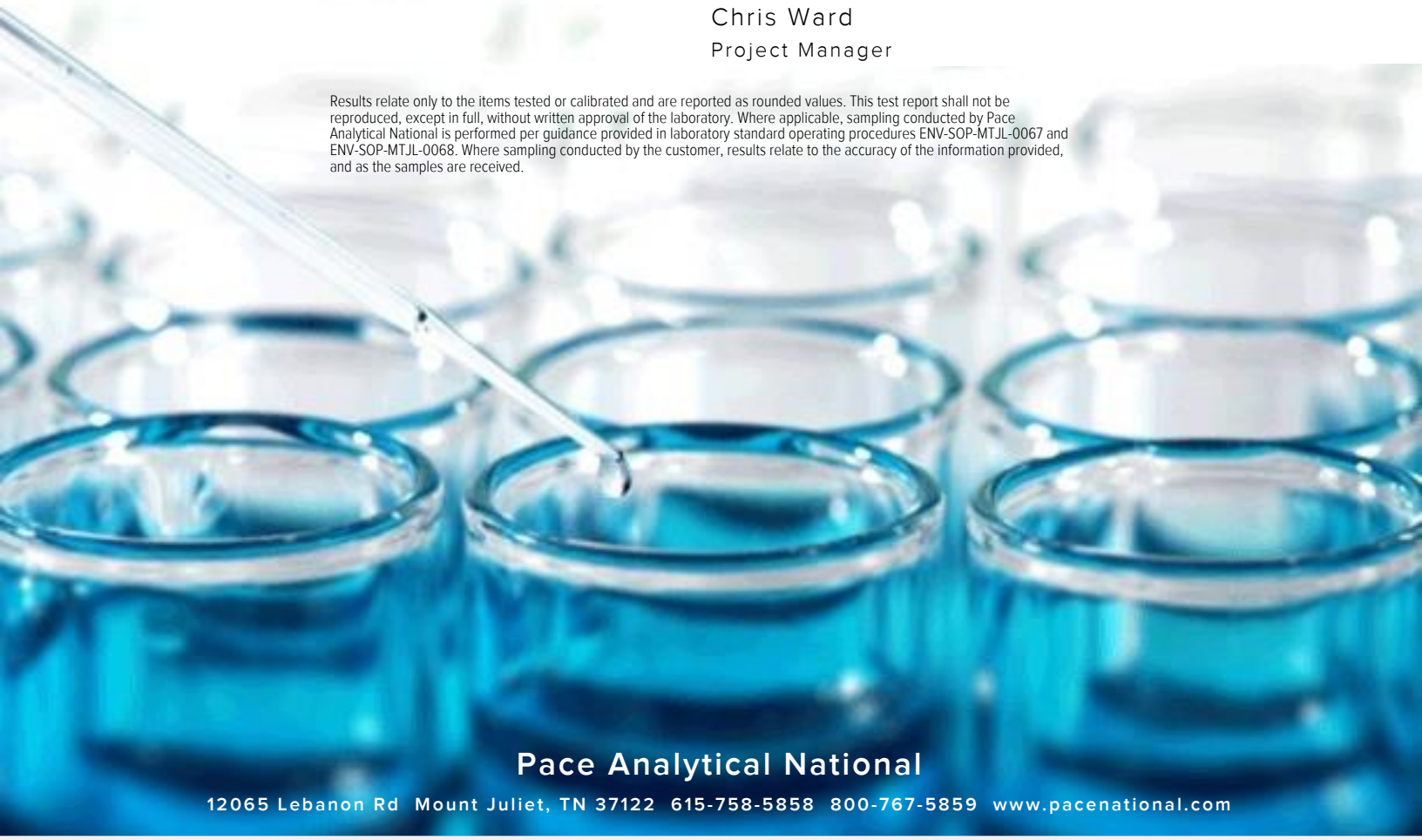
June 17, 2021

Caerus Oil and Gas

Sample Delivery Group:	L1364464
Samples Received:	06/10/2021
Project Number:	
Description:	Texaco Fee 62-14
Report To:	Brett Middleton 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

20210609-TEXACOFEE-62-14-SB2 (5-7) L1364464-01 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 11:20 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:22	06/16/21 13:22	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 18:54	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 09:43	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:16	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:34	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	100	06/11/21 18:58	06/14/21 18:28	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 00:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689806	20	06/11/21 18:58	06/16/21 21:20	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 16:12	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 18:55	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (10-12) L1364464-02 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 11:35 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:24	06/16/21 13:24	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 18:59	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 09:46	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:19	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:37	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1689801	1	06/11/21 18:58	06/16/21 19:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 00:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	10	06/12/21 00:53	06/12/21 18:29	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 19:15	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (15-17) L1364464-03 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 11:50 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:27	06/16/21 13:27	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 19:05	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 09:55	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:23	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:40	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	1.01	06/11/21 18:58	06/14/21 16:37	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 01:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 16:39	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 19:35	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (20-22) L1364464-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 12:05 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:30	06/16/21 13:30	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 19:10	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687692	1	06/15/21 02:57	06/15/21 06:57	ARD	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (20-22) L1364464-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 12:05 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 09:59	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:26	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	1	06/11/21 18:58	06/14/21 16:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 01:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	10	06/12/21 00:53	06/12/21 18:15	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 19:55	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (25-27) L1364464-05 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 12:35 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:33	06/16/21 13:33	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/17/21 01:44	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:04	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 10:02	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:29	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	1	06/11/21 18:58	06/14/21 17:22	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 01:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 17:06	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 20:51	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (30-32) L1364464-06 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 13:15 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:36	06/16/21 13:36	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 19:27	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:04	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 10:05	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:32	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	1	06/11/21 18:58	06/14/21 17:44	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1688700	1	06/11/21 18:58	06/16/21 02:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 17:20	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 20:15	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (35-37) L1364464-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 13:45 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:38	06/16/21 13:38	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 19:33	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:04	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 10:08	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:35	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688220	1	06/11/21 18:58	06/14/21 18:06	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689806	1	06/11/21 18:58	06/16/21 20:40	ACG	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (35-37) L1364464-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 13:45 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 16:26	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 20:34	AAT	Mt. Juliet, TN

20210609-TEXACOFEE-62-14-SB2 (40-42) L1364464-08 Solid

Collected by: Reed Johnson | Collected date/time: 06/09/21 14:20 | Received date/time: 06/10/21 12:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:41	06/16/21 13:41	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1688766	1	06/16/21 10:27	06/16/21 20:09	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1687931	1	06/14/21 12:07	06/15/21 15:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:04	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687336	1	06/14/21 15:39	06/15/21 10:12	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:43	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687335	5	06/14/21 15:30	06/14/21 23:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1687398	1	06/11/21 18:58	06/13/21 14:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689806	1	06/11/21 18:58	06/16/21 21:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687250	1	06/12/21 00:53	06/12/21 15:03	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1687305	1	06/12/21 07:37	06/12/21 20:35	AAT	Mt. Juliet, TN

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.

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.7		1	06/16/2021 13:22	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 18:54	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-01 WG1687931: 8.33 at 23.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1200		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	285		0.0852	0.500	1	06/15/2021 09:43	WG1687336
Cadmium	0.393	J	0.0471	0.500	1	06/15/2021 09:43	WG1687336
Copper	13.1		0.400	2.00	1	06/15/2021 09:43	WG1687336
Lead	7.29		0.208	0.500	1	06/15/2021 09:43	WG1687336
Nickel	12.9		0.132	2.00	1	06/15/2021 09:43	WG1687336
Selenium	2.23		0.764	2.00	1	06/15/2021 09:43	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 09:43	WG1687336
Zinc	38.1		0.832	5.00	1	06/15/2021 09:43	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.858		0.0167	0.200	1	06/16/2021 12:16	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.81		0.100	1.00	5	06/14/2021 23:34	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	690		2.17	10.0	100	06/14/2021 18:28	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*85.7*			*77.0-120*		*06/14/2021 18:28*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.101		0.000467	0.00100	1	06/16/2021 00:30	WG1688700
Toluene	13.1		0.0260	0.100	20	06/16/2021 21:20	WG1689806
Ethylbenzene	1.55		0.000737	0.00250	1	06/16/2021 00:30	WG1688700
Xylenes, Total	60.1		0.0176	0.130	20	06/16/2021 21:20	WG1689806
1,2,4-Trimethylbenzene	15.6		0.0316	0.100	20	06/16/2021 21:20	WG1689806
1,3,5-Trimethylbenzene	9.20		0.0400	0.100	20	06/16/2021 21:20	WG1689806
(S) Toluene-d8	*49.9*	J2		*75.0-131*		*06/16/2021 00:30*	WG1688700
(S) Toluene-d8	*98.0*			*75.0-131*		*06/16/2021 21:20*	WG1689806
(S) 4-Bromofluorobenzene	*80.4*			*67.0-138*		*06/16/2021 00:30*	WG1688700
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*		*06/16/2021 21:20*	WG1689806
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*06/16/2021 00:30*	WG1688700
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/16/2021 21:20*	WG1689806

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	27.7		1.61	4.00	1	06/12/2021 16:12	WG1687250
C28-C36 Motor Oil Range	78.1		0.274	4.00	1	06/12/2021 16:12	WG1687250
(S) o-Terphenyl	*72.0*			*18.0-148*		*06/12/2021 16:12*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 18:55	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 18:55	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 18:55	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 18:55	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 18:55	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 18:55	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 18:55	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 18:55	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 18:55	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 18:55	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 18:55	WG1687305
Fluorene	U		0.00205	0.00600	1	06/12/2021 18:55	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 18:55	WG1687305
Naphthalene	U		0.00408	0.0200	1	06/12/2021 18:55	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 18:55	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 18:55	WG1687305
1-Methylnaphthalene	0.00625	J	0.00449	0.0200	1	06/12/2021 18:55	WG1687305
2-Methylnaphthalene	0.00740	J	0.00427	0.0200	1	06/12/2021 18:55	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 18:55	WG1687305
(S) p-Terphenyl-d14	*97.4*			*23.0-120*		*06/12/2021 18:55*	WG1687305
(S) Nitrobenzene-d5	*69.7*			*14.0-149*		*06/12/2021 18:55*	WG1687305
(S) 2-Fluorobiphenyl	*78.0*			*34.0-125*		*06/12/2021 18:55*	WG1687305

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.86		1	06/16/2021 13:24	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 18:59	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.93	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-02 WG1687931: 8.93 at 22.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	879		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	249		0.0852	0.500	1	06/15/2021 09:46	WG1687336
Cadmium	0.423	J	0.0471	0.500	1	06/15/2021 09:46	WG1687336
Copper	17.3		0.400	2.00	1	06/15/2021 09:46	WG1687336
Lead	9.22		0.208	0.500	1	06/15/2021 09:46	WG1687336
Nickel	15.9		0.132	2.00	1	06/15/2021 09:46	WG1687336
Selenium	2.06		0.764	2.00	1	06/15/2021 09:46	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 09:46	WG1687336
Zinc	44.2		0.832	5.00	1	06/15/2021 09:46	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.718		0.0167	0.200	1	06/16/2021 12:19	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.2		0.100	1.00	5	06/14/2021 23:37	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.37		0.0217	0.100	1	06/16/2021 19:57	WG1689801
(S) a,a,a-Trifluorotoluene(FID)	*87.7*			*77.0-120*		*06/16/2021 19:57*	WG1689801

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00543		0.000467	0.00100	1	06/16/2021 00:51	WG1688700
Toluene	0.349		0.00130	0.00500	1	06/16/2021 00:51	WG1688700
Ethylbenzene	0.290		0.000737	0.00250	1	06/16/2021 00:51	WG1688700
Xylenes, Total	3.99		0.000880	0.00650	1	06/16/2021 00:51	WG1688700
1,2,4-Trimethylbenzene	0.557		0.00158	0.00500	1	06/16/2021 00:51	WG1688700
1,3,5-Trimethylbenzene	0.852		0.00200	0.00500	1	06/16/2021 00:51	WG1688700
(S) Toluene-d8	*98.1*			*75.0-131*		*06/16/2021 00:51*	WG1688700
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/16/2021 00:51*	WG1688700
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*06/16/2021 00:51*	WG1688700

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1360		16.1	40.0	10	06/12/2021 18:29	WG1687250
C28-C36 Motor Oil Range	446		2.74	40.0	10	06/12/2021 18:29	WG1687250
(S) o-Terphenyl	*63.1*			*18.0-148*		*06/12/2021 18:29*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 19:15	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 19:15	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 19:15	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 19:15	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 19:15	WG1687305
Benzo(b)fluoranthene	0.00359	J	0.00153	0.00600	1	06/12/2021 19:15	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 19:15	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 19:15	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 19:15	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 19:15	WG1687305
Fluoranthene	0.0158		0.00227	0.00600	1	06/12/2021 19:15	WG1687305
Fluorene	0.107		0.00205	0.00600	1	06/12/2021 19:15	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 19:15	WG1687305
Naphthalene	1.21		0.00408	0.0200	1	06/12/2021 19:15	WG1687305
Phenanthrene	0.0664		0.00231	0.00600	1	06/12/2021 19:15	WG1687305
Pyrene	0.00756		0.00200	0.00600	1	06/12/2021 19:15	WG1687305
1-Methylnaphthalene	1.79		0.00449	0.0200	1	06/12/2021 19:15	WG1687305
2-Methylnaphthalene	2.61		0.00427	0.0200	1	06/12/2021 19:15	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 19:15	WG1687305
(S) p-Terphenyl-d14	*86.4*			*23.0-120*		*06/12/2021 19:15*	WG1687305
(S) Nitrobenzene-d5	*0.000*	J2		*14.0-149*		*06/12/2021 19:15*	WG1687305
(S) 2-Fluorobiphenyl	*59.7*			*34.0-125*		*06/12/2021 19:15*	WG1687305

Sample Narrative:

L1364464-02 WG1687305: Surrogate failure due to matrix interference

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.57		1	06/16/2021 13:27	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 19:05	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.89	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-03 WG1687931: 8.89 at 22.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	920		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	242		0.0852	0.500	1	06/15/2021 09:55	WG1687336
Cadmium	0.277	J	0.0471	0.500	1	06/15/2021 09:55	WG1687336
Copper	10.3		0.400	2.00	1	06/15/2021 09:55	WG1687336
Lead	6.58		0.208	0.500	1	06/15/2021 09:55	WG1687336
Nickel	10.7		0.132	2.00	1	06/15/2021 09:55	WG1687336
Selenium	1.85	J	0.764	2.00	1	06/15/2021 09:55	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 09:55	WG1687336
Zinc	28.4		0.832	5.00	1	06/15/2021 09:55	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.299		0.0167	0.200	1	06/16/2021 12:23	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.00		0.100	1.00	5	06/14/2021 23:40	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	9.47		0.0219	0.101	1.01	06/14/2021 16:37	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*84.8*			*77.0-120*		*06/14/2021 16:37*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0217		0.000467	0.00100	1	06/16/2021 01:11	WG1688700
Toluene	0.733		0.00130	0.00500	1	06/16/2021 01:11	WG1688700
Ethylbenzene	0.143		0.000737	0.00250	1	06/16/2021 01:11	WG1688700
Xylenes, Total	5.44		0.000880	0.00650	1	06/16/2021 01:11	WG1688700
1,2,4-Trimethylbenzene	1.73		0.00158	0.00500	1	06/16/2021 01:11	WG1688700
1,3,5-Trimethylbenzene	1.16		0.00200	0.00500	1	06/16/2021 01:11	WG1688700
(S) Toluene-d8	*95.6*			*75.0-131*		*06/16/2021 01:11*	WG1688700
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*		*06/16/2021 01:11*	WG1688700
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*06/16/2021 01:11*	WG1688700

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	31.8		1.61	4.00	1	06/12/2021 16:39	WG1687250
C28-C36 Motor Oil Range	81.0		0.274	4.00	1	06/12/2021 16:39	WG1687250
(S) o-Terphenyl	*72.3*			*18.0-148*		*06/12/2021 16:39*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 19:35	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 19:35	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 19:35	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 19:35	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 19:35	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 19:35	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 19:35	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 19:35	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 19:35	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 19:35	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 19:35	WG1687305
Fluorene	0.00221	J	0.00205	0.00600	1	06/12/2021 19:35	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 19:35	WG1687305
Naphthalene	0.0114	J	0.00408	0.0200	1	06/12/2021 19:35	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 19:35	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 19:35	WG1687305
1-Methylnaphthalene	0.0212		0.00449	0.0200	1	06/12/2021 19:35	WG1687305
2-Methylnaphthalene	0.0260		0.00427	0.0200	1	06/12/2021 19:35	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 19:35	WG1687305
(S) p-Terphenyl-d14	*95.6*			*23.0-120*		*06/12/2021 19:35*	WG1687305
(S) Nitrobenzene-d5	*98.8*			*14.0-149*		*06/12/2021 19:35*	WG1687305
(S) 2-Fluorobiphenyl	*80.7*			*34.0-125*		*06/12/2021 19:35*	WG1687305

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.08		1	06/16/2021 13:30	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 19:10	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.01	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-04 WG1687931: 9.01 at 24.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	843		10.0	1	06/15/2021 06:57	WG1687692

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	277		0.0852	0.500	1	06/15/2021 09:59	WG1687336
Cadmium	0.513		0.0471	0.500	1	06/15/2021 09:59	WG1687336
Copper	14.9		0.400	2.00	1	06/15/2021 09:59	WG1687336
Lead	8.46		0.208	0.500	1	06/15/2021 09:59	WG1687336
Nickel	15.4		0.132	2.00	1	06/15/2021 09:59	WG1687336
Selenium	2.27		0.764	2.00	1	06/15/2021 09:59	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 09:59	WG1687336
Zinc	42.6		0.832	5.00	1	06/15/2021 09:59	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.298		0.0167	0.200	1	06/16/2021 12:26	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.88		0.100	1.00	5	06/14/2021 23:43	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.879		0.0217	0.100	1	06/14/2021 16:59	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*83.8*			*77.0-120*		*06/14/2021 16:59*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00153		0.000467	0.00100	1	06/16/2021 01:32	WG1688700
Toluene	0.0414		0.00130	0.00500	1	06/16/2021 01:32	WG1688700
Ethylbenzene	0.0312		0.000737	0.00250	1	06/16/2021 01:32	WG1688700
Xylenes, Total	0.468		0.000880	0.00650	1	06/16/2021 01:32	WG1688700
1,2,4-Trimethylbenzene	0.211		0.00158	0.00500	1	06/16/2021 01:32	WG1688700
1,3,5-Trimethylbenzene	0.243		0.00200	0.00500	1	06/16/2021 01:32	WG1688700
(S) Toluene-d8	*104*			*75.0-131*		*06/16/2021 01:32*	WG1688700
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*06/16/2021 01:32*	WG1688700
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*06/16/2021 01:32*	WG1688700

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1220		16.1	40.0	10	06/12/2021 18:15	WG1687250
C28-C36 Motor Oil Range	413		2.74	40.0	10	06/12/2021 18:15	WG1687250
(S) o-Terphenyl	*58.7*			*18.0-148*		*06/12/2021 18:15*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 19:55	WG1687305
Acenaphthene	0.0700		0.00209	0.00600	1	06/12/2021 19:55	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 19:55	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 19:55	WG1687305
Benzo(a)pyrene	0.00280	J	0.00179	0.00600	1	06/12/2021 19:55	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 19:55	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 19:55	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 19:55	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 19:55	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 19:55	WG1687305
Fluoranthene	0.0230		0.00227	0.00600	1	06/12/2021 19:55	WG1687305
Fluorene	0.144		0.00205	0.00600	1	06/12/2021 19:55	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 19:55	WG1687305
Naphthalene	1.73		0.00408	0.0200	1	06/12/2021 19:55	WG1687305
Phenanthrene	0.0997		0.00231	0.00600	1	06/12/2021 19:55	WG1687305
Pyrene	0.0109		0.00200	0.00600	1	06/12/2021 19:55	WG1687305
1-Methylnaphthalene	2.50		0.00449	0.0200	1	06/12/2021 19:55	WG1687305
2-Methylnaphthalene	3.67		0.00427	0.0200	1	06/12/2021 19:55	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 19:55	WG1687305
(S) p-Terphenyl-d14	*96.5*			*23.0-120*		*06/12/2021 19:55*	WG1687305
(S) Nitrobenzene-d5	*0.000*	J2		*14.0-149*		*06/12/2021 19:55*	WG1687305
(S) 2-Fluorobiphenyl	*64.0*			*34.0-125*		*06/12/2021 19:55*	WG1687305

Sample Narrative:

L1364464-04 WG1687305: Surrogate failure due to matrix interference

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.78		1	06/16/2021 13:33	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/17/2021 01:44	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.17	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-05 WG1687931: 8.17 at 24C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1560		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	243		0.0852	0.500	1	06/15/2021 10:02	WG1687336
Cadmium	0.383	J	0.0471	0.500	1	06/15/2021 10:02	WG1687336
Copper	10.7		0.400	2.00	1	06/15/2021 10:02	WG1687336
Lead	6.14		0.208	0.500	1	06/15/2021 10:02	WG1687336
Nickel	10.8		0.132	2.00	1	06/15/2021 10:02	WG1687336
Selenium	2.62		0.764	2.00	1	06/15/2021 10:02	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 10:02	WG1687336
Zinc	32.5		0.832	5.00	1	06/15/2021 10:02	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.362		0.0167	0.200	1	06/16/2021 12:29	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.51		0.100	1.00	5	06/14/2021 23:46	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.826		0.0217	0.100	1	06/14/2021 17:22	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*81.7*			*77.0-120*		*06/14/2021 17:22*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000675	J	0.000467	0.00100	1	06/16/2021 01:52	WG1688700
Toluene	0.0424		0.00130	0.00500	1	06/16/2021 01:52	WG1688700
Ethylbenzene	0.0273		0.000737	0.00250	1	06/16/2021 01:52	WG1688700
Xylenes, Total	0.388		0.000880	0.00650	1	06/16/2021 01:52	WG1688700
1,2,4-Trimethylbenzene	0.185		0.00158	0.00500	1	06/16/2021 01:52	WG1688700
1,3,5-Trimethylbenzene	0.116		0.00200	0.00500	1	06/16/2021 01:52	WG1688700
(S) Toluene-d8	*102*			*75.0-131*		*06/16/2021 01:52*	WG1688700
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*06/16/2021 01:52*	WG1688700
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*06/16/2021 01:52*	WG1688700

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	44.0		1.61	4.00	1	06/12/2021 17:06	WG1687250
C28-C36 Motor Oil Range	96.5		0.274	4.00	1	06/12/2021 17:06	WG1687250
(S) o-Terphenyl	*69.0*			*18.0-148*		*06/12/2021 17:06*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 20:51	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 20:51	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 20:51	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 20:51	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 20:51	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 20:51	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 20:51	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 20:51	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 20:51	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 20:51	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 20:51	WG1687305
Fluorene	0.00252	J	0.00205	0.00600	1	06/12/2021 20:51	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 20:51	WG1687305
Naphthalene	0.0311		0.00408	0.0200	1	06/12/2021 20:51	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 20:51	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 20:51	WG1687305
1-Methylnaphthalene	0.0407		0.00449	0.0200	1	06/12/2021 20:51	WG1687305
2-Methylnaphthalene	0.0578		0.00427	0.0200	1	06/12/2021 20:51	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 20:51	WG1687305
(S) p-Terphenyl-d14	*95.6*			*23.0-120*		*06/12/2021 20:51*	WG1687305
(S) Nitrobenzene-d5	*96.6*			*14.0-149*		*06/12/2021 20:51*	WG1687305
(S) 2-Fluorobiphenyl	*81.0*			*34.0-125*		*06/12/2021 20:51*	WG1687305

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.79		1	06/16/2021 13:36	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 19:27	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.16	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-06 WG1687931: 8.16 at 23.4C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1510		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	286		0.0852	0.500	1	06/15/2021 10:05	WG1687336
Cadmium	0.498	J	0.0471	0.500	1	06/15/2021 10:05	WG1687336
Copper	16.5		0.400	2.00	1	06/15/2021 10:05	WG1687336
Lead	8.32		0.208	0.500	1	06/15/2021 10:05	WG1687336
Nickel	15.4		0.132	2.00	1	06/15/2021 10:05	WG1687336
Selenium	2.24		0.764	2.00	1	06/15/2021 10:05	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 10:05	WG1687336
Zinc	45.7		0.832	5.00	1	06/15/2021 10:05	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.253		0.0167	0.200	1	06/16/2021 12:32	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.69		0.100	1.00	5	06/14/2021 23:50	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.61		0.0217	0.100	1	06/14/2021 17:44	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*88.2*			*77.0-120*		*06/14/2021 17:44*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00208		0.000467	0.00100	1	06/16/2021 02:13	WG1688700
Toluene	0.0667		0.00130	0.00500	1	06/16/2021 02:13	WG1688700
Ethylbenzene	0.0230		0.000737	0.00250	1	06/16/2021 02:13	WG1688700
Xylenes, Total	0.394		0.000880	0.00650	1	06/16/2021 02:13	WG1688700
1,2,4-Trimethylbenzene	0.160		0.00158	0.00500	1	06/16/2021 02:13	WG1688700
1,3,5-Trimethylbenzene	0.0962		0.00200	0.00500	1	06/16/2021 02:13	WG1688700
(S) Toluene-d8	*103*			*75.0-131*		*06/16/2021 02:13*	WG1688700
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/16/2021 02:13*	WG1688700
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*06/16/2021 02:13*	WG1688700

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	45.7		1.61	4.00	1	06/12/2021 17:20	WG1687250
C28-C36 Motor Oil Range	125		0.274	4.00	1	06/12/2021 17:20	WG1687250
(S) o-Terphenyl	*65.1*			*18.0-148*		*06/12/2021 17:20*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 20:15	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 20:15	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 20:15	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 20:15	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 20:15	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 20:15	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 20:15	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 20:15	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 20:15	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 20:15	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 20:15	WG1687305
Fluorene	U		0.00205	0.00600	1	06/12/2021 20:15	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 20:15	WG1687305
Naphthalene	0.00524	J	0.00408	0.0200	1	06/12/2021 20:15	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 20:15	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 20:15	WG1687305
1-Methylnaphthalene	0.00754	J	0.00449	0.0200	1	06/12/2021 20:15	WG1687305
2-Methylnaphthalene	0.00959	J	0.00427	0.0200	1	06/12/2021 20:15	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 20:15	WG1687305
(S) p-Terphenyl-d14	*93.2*			*23.0-120*		*06/12/2021 20:15*	WG1687305
(S) Nitrobenzene-d5	*85.6*			*14.0-149*		*06/12/2021 20:15*	WG1687305
(S) 2-Fluorobiphenyl	*82.5*			*34.0-125*		*06/12/2021 20:15*	WG1687305

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.59		1	06/16/2021 13:38	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 19:33	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.01	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-07 WG1687931: 8.01 at 23.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2460		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	251		0.0852	0.500	1	06/15/2021 10:08	WG1687336
Cadmium	0.383	J	0.0471	0.500	1	06/15/2021 10:08	WG1687336
Copper	14.0		0.400	2.00	1	06/15/2021 10:08	WG1687336
Lead	7.22		0.208	0.500	1	06/15/2021 10:08	WG1687336
Nickel	14.1		0.132	2.00	1	06/15/2021 10:08	WG1687336
Selenium	1.61	J	0.764	2.00	1	06/15/2021 10:08	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 10:08	WG1687336
Zinc	41.8		0.832	5.00	1	06/15/2021 10:08	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.240		0.0167	0.200	1	06/16/2021 12:35	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.32		0.100	1.00	5	06/14/2021 23:53	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0997	J	0.0217	0.100	1	06/14/2021 18:06	WG1688220
(S) a,a,a-Trifluorotoluene(FID)	*85.7*			*77.0-120*		*06/14/2021 18:06*	WG1688220

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000575	J	0.000467	0.00100	1	06/16/2021 20:40	WG1689806
Toluene	0.0148		0.00130	0.00500	1	06/16/2021 20:40	WG1689806
Ethylbenzene	0.00315		0.000737	0.00250	1	06/16/2021 20:40	WG1689806
Xylenes, Total	0.0410		0.000880	0.00650	1	06/16/2021 20:40	WG1689806
1,2,4-Trimethylbenzene	0.0102		0.00158	0.00500	1	06/16/2021 20:40	WG1689806
1,3,5-Trimethylbenzene	0.00625		0.00200	0.00500	1	06/16/2021 20:40	WG1689806
(S) Toluene-d8	*103*			*75.0-131*		*06/16/2021 20:40*	WG1689806
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*06/16/2021 20:40*	WG1689806
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*06/16/2021 20:40*	WG1689806

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	32.6		1.61	4.00	1	06/12/2021 16:26	WG1687250
C28-C36 Motor Oil Range	88.2		0.274	4.00	1	06/12/2021 16:26	WG1687250
(S) o-Terphenyl	*72.2*			*18.0-148*		*06/12/2021 16:26*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 20:34	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 20:34	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 20:34	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 20:34	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 20:34	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 20:34	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 20:34	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 20:34	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 20:34	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 20:34	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 20:34	WG1687305
Fluorene	U		0.00205	0.00600	1	06/12/2021 20:34	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 20:34	WG1687305
Naphthalene	0.00802	J	0.00408	0.0200	1	06/12/2021 20:34	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 20:34	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 20:34	WG1687305
1-Methylnaphthalene	0.0156	J	0.00449	0.0200	1	06/12/2021 20:34	WG1687305
2-Methylnaphthalene	0.0214		0.00427	0.0200	1	06/12/2021 20:34	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 20:34	WG1687305
(S) p-Terphenyl-d14	*85.8*			*23.0-120*		*06/12/2021 20:34*	WG1687305
(S) Nitrobenzene-d5	*85.4*			*14.0-149*		*06/12/2021 20:34*	WG1687305
(S) 2-Fluorobiphenyl	*73.3*			*34.0-125*		*06/12/2021 20:34*	WG1687305

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.74		1	06/16/2021 13:41	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/16/2021 20:09	WG1688766

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30	T8	1	06/15/2021 15:00	WG1687931

Sample Narrative:

L1364464-08 WG1687931: 8.3 at 23.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1210		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	308		0.0852	0.500	1	06/15/2021 10:12	WG1687336
Cadmium	0.468	J	0.0471	0.500	1	06/15/2021 10:12	WG1687336
Copper	14.7		0.400	2.00	1	06/15/2021 10:12	WG1687336
Lead	7.90		0.208	0.500	1	06/15/2021 10:12	WG1687336
Nickel	15.0		0.132	2.00	1	06/15/2021 10:12	WG1687336
Selenium	2.94		0.764	2.00	1	06/15/2021 10:12	WG1687336
Silver	U		0.127	1.00	1	06/15/2021 10:12	WG1687336
Zinc	45.7		0.832	5.00	1	06/15/2021 10:12	WG1687336

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.201		0.0167	0.200	1	06/16/2021 12:43	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.10		0.100	1.00	5	06/14/2021 23:56	WG1687335

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.203	B J3	0.0217	0.100	1	06/13/2021 14:33	WG1687398
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*06/13/2021 14:33*	WG1687398

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000725	J	0.000467	0.00100	1	06/16/2021 21:00	WG1689806
Toluene	0.0175		0.00130	0.00500	1	06/16/2021 21:00	WG1689806
Ethylbenzene	0.00448		0.000737	0.00250	1	06/16/2021 21:00	WG1689806
Xylenes, Total	0.0768		0.000880	0.00650	1	06/16/2021 21:00	WG1689806
1,2,4-Trimethylbenzene	0.0317		0.00158	0.00500	1	06/16/2021 21:00	WG1689806
1,3,5-Trimethylbenzene	0.0182		0.00200	0.00500	1	06/16/2021 21:00	WG1689806
(S) Toluene-d8	*102*			*75.0-131*		*06/16/2021 21:00*	WG1689806
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*		*06/16/2021 21:00*	WG1689806
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*06/16/2021 21:00*	WG1689806

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	22.3		1.61	4.00	1	06/12/2021 15:03	WG1687250
C28-C36 Motor Oil Range	69.4		0.274	4.00	1	06/12/2021 15:03	WG1687250
(S) o-Terphenyl	*75.9*			*18.0-148*		*06/12/2021 15:03*	WG1687250

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/12/2021 20:35	WG1687305
Acenaphthene	U		0.00209	0.00600	1	06/12/2021 20:35	WG1687305
Acenaphthylene	U		0.00216	0.00600	1	06/12/2021 20:35	WG1687305
Benzo(a)anthracene	U		0.00173	0.00600	1	06/12/2021 20:35	WG1687305
Benzo(a)pyrene	U		0.00179	0.00600	1	06/12/2021 20:35	WG1687305
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/12/2021 20:35	WG1687305
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/12/2021 20:35	WG1687305
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/12/2021 20:35	WG1687305
Chrysene	U		0.00232	0.00600	1	06/12/2021 20:35	WG1687305
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/12/2021 20:35	WG1687305
Fluoranthene	U		0.00227	0.00600	1	06/12/2021 20:35	WG1687305
Fluorene	U		0.00205	0.00600	1	06/12/2021 20:35	WG1687305
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/12/2021 20:35	WG1687305
Naphthalene	U		0.00408	0.0200	1	06/12/2021 20:35	WG1687305
Phenanthrene	U		0.00231	0.00600	1	06/12/2021 20:35	WG1687305
Pyrene	U		0.00200	0.00600	1	06/12/2021 20:35	WG1687305
1-Methylnaphthalene	0.00603	J	0.00449	0.0200	1	06/12/2021 20:35	WG1687305
2-Methylnaphthalene	0.00723	J	0.00427	0.0200	1	06/12/2021 20:35	WG1687305
2-Chloronaphthalene	U		0.00466	0.0200	1	06/12/2021 20:35	WG1687305
(S) p-Terphenyl-d14	*93.4*			*23.0-120*		*06/12/2021 20:35*	WG1687305
(S) Nitrobenzene-d5	*78.7*			*14.0-149*		*06/12/2021 20:35*	WG1687305
(S) 2-Fluorobiphenyl	*78.4*			*34.0-125*		*06/12/2021 20:35*	WG1687305

QUALITY CONTROL SUMMARY

L1364464-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3668599-1 06/16/21 18:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1364464-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1364464-04 06/16/21 19:10 • (DUP) R3668599-3 06/16/21 19:19

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1364464-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1364464-05 06/17/21 01:44 • (DUP) R3668599-8 06/17/21 01:49

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3668599-2 06/16/21 18:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.9	109	80.0-120	

L1364464-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364464-07 06/16/21 19:33 • (MS) R3668599-4 06/16/21 19:38 • (MSD) R3668599-5 06/16/21 19:53

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 %
Hexavalent Chromium	20.0	U	15.4	15.3	77.2	76.7	1	75.0-125			0.626	20

L1364464-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1364464-07 06/16/21 19:33 • (MS) R3668599-6 06/16/21 19:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	631	U	633	100	50	75.0-125	

L1364657-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1364657-02 06/15/21 15:00 • (DUP) R3667562-3 06/15/21 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.76	8.80	1	0.456		1

Sample Narrative:

OS: 8.76 at 26.2C

DUP: 8.8 at 25.2C

Laboratory Control Sample (LCS)

(LCS) R3667562-1 06/15/21 15:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 23.3C

Method Blank (MB)

(MB) R3667231-1 06/15/21 06:57

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1363871-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1363871-07 06/15/21 06:57 • (DUP) R3667231-3 06/15/21 06:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	291	286	1	1.63		20

L1364464-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1364464-02 06/15/21 06:57 • (DUP) R3667231-4 06/15/21 06:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	879	879	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3667231-2 06/15/21 06:57

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	264	98.6	85.0-115	

Method Blank (MB)

(MB) R3668236-1 06/16/21 20:09

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1364672-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1364672-01 06/16/21 20:09 • (DUP) R3668236-3 06/16/21 20:09

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	211	211	1	0.237		20

L1365156-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365156-01 06/16/21 20:09 • (DUP) R3668236-4 06/16/21 20:09

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	489	455	1	7.20		20

Laboratory Control Sample (LCS)

(LCS) R3668236-2 06/16/21 20:09

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	274	102	85.0-115	

QUALITY CONTROL SUMMARY

L1364464-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3667499-1 06/15/21 09:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3667499-2 06/15/21 09:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	101	101	80.0-120	
Cadmium	100	97.6	97.6	80.0-120	
Copper	100	98.4	98.4	80.0-120	
Lead	100	98.7	98.7	80.0-120	
Nickel	100	102	102	80.0-120	
Selenium	100	99.8	99.8	80.0-120	
Silver	20.0	19.5	97.4	80.0-120	
Zinc	100	99.1	99.1	80.0-120	

L1364561-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364561-01 06/15/21 09:25 • (MS) R3667499-5 06/15/21 09:34 • (MSD) R3667499-6 06/15/21 09:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	99.9	233	302	278	69.2	45.9	1	75.0-125	J6	J6	8.05	20
Cadmium	99.9	0.271	101	88.4	101	88.1	1	75.0-125			13.5	20
Copper	99.9	16.1	116	104	99.9	88.3	1	75.0-125			10.5	20
Lead	99.9	19.2	120	111	101	91.5	1	75.0-125			8.15	20
Nickel	99.9	23.5	131	121	108	97.5	1	75.0-125			8.21	20
Selenium	99.9	0.915	104	89.5	103	88.5	1	75.0-125			15.2	20
Silver	20.0	U	20.6	18.2	103	90.8	1	75.0-125			12.4	20
Zinc	99.9	65.8	158	145	91.8	79.0	1	75.0-125			8.49	20

Method Blank (MB)

(MB) R3668075-1 06/16/21 12:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3668075-2 06/16/21 12:11 • (LCSD) R3668075-3 06/16/21 12:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.09	1.00	109	100	80.0-120			8.02	20

QUALITY CONTROL SUMMARY

L1364464-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3667206-1 06/14/21 22:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3667206-2 06/14/21 22:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	90.8	90.8	80.0-120	

L1364561-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364561-01 06/14/21 22:58 • (MS) R3667206-5 06/14/21 23:07 • (MSD) R3667206-6 06/14/21 23:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	99.9	9.80	100	89.3	90.3	79.5	5	75.0-125			11.5	20

Method Blank (MB)

(MB) R3667835-2 06/13/21 13:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0361	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3667835-1 06/13/21 12:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.37	79.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*89.3*	*77.0-120*	

L1364464-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364464-08 06/13/21 14:33 • (MS) R3667835-3 06/13/21 22:29 • (MSD) R3667835-4 06/13/21 22:53

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 %
TPH (GC/FID) Low Fraction	5.50	0.203	3.12	2.25	53.0	37.2	1	10.0-151		J3	32.4	28
(S) a,a,a-Trifluorotoluene(FID)					*101*	*98.0*		*77.0-120*				

Method Blank (MB)

(MB) R3667549-3 06/14/21 16:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*77.0-120*

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

(LCS) R3667549-1 06/14/21 14:47 • (LCSD) R3667549-2 06/14/21 15:09

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 %
TPH (GC/FID) Low Fraction	5.50	5.46	5.59	99.3	102	72.0-127			2.35	20
(S) a,a,a-Trifluorotoluene(FID)				*98.5*	*98.3*	*77.0-120*				

Method Blank (MB)

(MB) R3668239-2 06/16/21 16:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*91.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3668239-1 06/16/21 15:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.34	97.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

Method Blank (MB)

(MB) R3668048-3 06/15/21 20:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*105*		*75.0-131*	
(S) 4-Bromofluorobenzene	*96.8*		*67.0-138*	
(S) 1,2-Dichloroethane-d4	*91.9*		*70.0-130*	

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

(LCS) R3668048-1 06/15/21 18:44 • (LCSD) R3668048-2 06/15/21 19:04

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 %
Benzene	0.125	0.118	0.120	94.4	96.0	70.0-123			1.68	20
Ethylbenzene	0.125	0.108	0.118	86.4	94.4	74.0-126			8.85	20
Toluene	0.125	0.118	0.119	94.4	95.2	75.0-121			0.844	20
1,2,4-Trimethylbenzene	0.125	0.115	0.119	92.0	95.2	70.0-126			3.42	20
1,3,5-Trimethylbenzene	0.125	0.120	0.122	96.0	97.6	73.0-127			1.65	20
Xylenes, Total	0.375	0.325	0.333	86.7	88.8	72.0-127			2.43	20
(S) Toluene-d8				*103*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*93.5*	*95.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*107*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R3668337-3 06/16/21 18:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

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

(LCS) R3668337-1 06/16/21 17:21 • (LCSD) R3668337-2 06/16/21 17:42

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 %
Benzene	0.125	0.129	0.137	103	110	70.0-123			6.02	20
Ethylbenzene	0.125	0.124	0.133	99.2	106	74.0-126			7.00	20
Toluene	0.125	0.126	0.130	101	104	75.0-121			3.12	20
1,2,4-Trimethylbenzene	0.125	0.124	0.137	99.2	110	70.0-126			9.96	20
1,3,5-Trimethylbenzene	0.125	0.127	0.141	102	113	73.0-127			10.4	20
Xylenes, Total	0.375	0.358	0.377	95.5	101	72.0-127			5.17	20
(S) Toluene-d8				*101*	*99.7*	*75.0-131*				
(S) 4-Bromofluorobenzene				*93.9*	*96.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*105*	*105*	*70.0-130*				

QUALITY CONTROL SUMMARY

L1364464-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3666673-1 06/12/21 12:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*73.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3666673-2 06/12/21 12:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.0	88.0	50.0-150	
(S) o-Terphenyl			*96.2*	*18.0-148*	

L1364464-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364464-08 06/12/21 15:03 • (MS) R3666673-3 06/12/21 15:17 • (MSD) R3666673-4 06/12/21 15:31

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 %
C10-C28 Diesel Range	50.0	22.3	68.9	71.3	93.2	98.0	1	50.0-150			3.42	20
(S) o-Terphenyl					*80.8*	*76.7*		*18.0-148*				

Method Blank (MB)

(MB) R3666857-2 06/12/21 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*78.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*80.3*			*34.0-125*
(S) p-Terphenyl-d14	*108*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3666857-1 06/12/21 14:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0615	76.9	50.0-126	
Acenaphthene	0.0800	0.0654	81.8	50.0-120	
Acenaphthylene	0.0800	0.0706	88.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0650	81.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0610	76.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0617	77.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0650	81.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0633	79.1	49.0-125	
Chrysene	0.0800	0.0705	88.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0650	81.3	47.0-125	
Fluoranthene	0.0800	0.0699	87.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3666857-1 06/12/21 14:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0666	83.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0642	80.3	46.0-125	
Naphthalene	0.0800	0.0645	80.6	50.0-120	
Phenanthrene	0.0800	0.0622	77.8	47.0-120	
Pyrene	0.0800	0.0672	84.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0595	74.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0565	70.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0631	78.9	50.0-120	
(S) Nitrobenzene-d5			*90.6*	*14.0-149*	
(S) 2-Fluorobiphenyl			*84.3*	*34.0-125*	
(S) p-Terphenyl-d14			*97.0*	*23.0-120*	

L1364148-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364148-06 06/12/21 15:55 • (MS) R3666857-3 06/12/21 16:15 • (MSD) R3666857-4 06/12/21 16:35

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 %
Anthracene	0.0790	U	0.0657	0.0558	83.0	70.8	1	10.0-145			16.3	30
Acenaphthene	0.0790	0.0967	0.160	0.132	79.9	44.8	1	14.0-127			19.2	27
Acenaphthylene	0.0790	U	0.0936	0.0858	118	109	1	21.0-124			8.70	25
Benzo(a)anthracene	0.0790	0.00607	0.0675	0.0668	77.6	77.1	1	10.0-139			1.04	30
Benzo(a)pyrene	0.0790	0.00339	0.0616	0.0610	73.5	73.1	1	10.0-141			0.979	31
Benzo(b)fluoranthene	0.0790	0.00481	0.0634	0.0634	74.0	74.4	1	10.0-140			0.000	36
Benzo(g,h,i)perylene	0.0790	0.00469	0.0644	0.0644	75.4	75.8	1	10.0-140			0.000	33
Benzo(k)fluoranthene	0.0790	U	0.0584	0.0583	73.7	74.0	1	10.0-137			0.171	31
Chrysene	0.0790	0.00736	0.0693	0.0700	78.2	79.5	1	10.0-145			1.01	30
Dibenz(a,h)anthracene	0.0790	U	0.0597	0.0604	75.4	76.6	1	10.0-132			1.17	31
Fluoranthene	0.0790	0.0185	0.0857	0.0829	84.8	81.7	1	10.0-153			3.32	33
Fluorene	0.0790	0.0856	0.156	0.129	88.9	55.1	1	11.0-130			18.9	29
Indeno(1,2,3-cd)pyrene	0.0790	0.00237	0.0612	0.0618	74.3	75.4	1	10.0-137			0.976	32
Naphthalene	0.0790	21.8	25.4	17.9	4550	0.000	1	10.0-135	E V	E J3 V	34.6	27
Phenanthrene	0.0790	0.153	0.224	0.172	89.6	24.1	1	10.0-144			26.3	31
Pyrene	0.0790	0.0262	0.0839	0.0799	72.9	68.1	1	10.0-148			4.88	35
1-Methylnaphthalene	0.0790	9.19	10.6	7.42	1780	0.000	1	10.0-142	E V	E J3 V	35.3	28
2-Methylnaphthalene	0.0790	20.4	23.7	16.6	4170	0.000	1	10.0-137	E V	E J3 V	35.2	28
2-Chloronaphthalene	0.0790	U	0.0393	0.0425	49.6	53.9	1	29.0-120			7.82	24
(S) Nitrobenzene-d5					*0.000*	*0.000*		*14.0-149*	J2	J2		
(S) 2-Fluorobiphenyl					*76.0*	*77.0*		*34.0-125*				
(S) p-Terphenyl-d14					*88.9*	*91.8*		*23.0-120*				

L1364148-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364148-06 06/12/21 15:55 • (MS) R3666857-3 06/12/21 16:15 • (MSD) R3666857-4 06/12/21 16:35

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 %

Sample Narrative:

OS: Surrogate failure due to matrix interference

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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
B	The same analyte is found in the associated blank.
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.
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute, CO~~ Debeque CO

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1364464
J217

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR						Rem./Contaminant	Sample # (lab only)
20210609-Texaco Fee-62-14-SB2 (5-7)	Grab	SS	5-7	6/9/21	1120	2	X	X	X	X	X							-01
20210609-Texaco Fee-62-14-SB2 (10-12)			10-12		1135	2	X	X	X	X	X							-02
20210609-Texaco Fee-62-14-SB2 (15-17)			15-17		1150	2	X	X	X	X	X							-03
20210609-Texaco Fee-62-14-SB2 (20-22)			20-22		1205	2	X	X	X	X	X							-04
20210609-Texaco Fee-62-14-SB2 (25-27)			25-27		1235	2	X	X	X	X	X							-05
20210609-Texaco Fee-62-14-SB2 (30-32)			30-32		1315	2	X	X	X	X	X							-06
20210609-Texaco Fee-62-14-SB2 (35-37)			35-37		1345	2	X	X	X	X	X							-07
20210609-Texaco Fee-62-14-SB2 (40-42)			40-42		1420	2	X	X	X	X	X							-08

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 9883 0083 8875

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
[signature]	6/9/21	1645	[signature]		
Relinquished by : (Signature) [signature]	Date: 6/7/21	Time: 1730	Received by: (Signature)	Temp: 26+0.26 °C Bottles Received: 16	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) T. Robertson	Date: 6/10/21 Time: 12:45	pH Checked: NCF:

TBE

ANALYTICAL REPORT

June 21, 2021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Caerus Oil and Gas

Sample Delivery Group:	L1365156
Samples Received:	06/11/2021
Project Number:	
Description:	Texaco Fee 62-14
Report To:	Blair Rollins 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

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

TABLE OF CONTENTS

20210610-TEXACOFEE-62-14-SB3 (5-7) L1365156-01 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 08:35 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:44	06/16/21 13:44	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:33	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:09	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/17/21 23:53	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:46	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 20:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 21:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 03:36	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 08:12	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (10-12) L1365156-02 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 08:50 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:52	06/16/21 13:52	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:00	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688897	1	06/16/21 09:07	06/16/21 13:00	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1687693	1	06/14/21 03:09	06/16/21 20:09	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/17/21 23:57	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:49	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 20:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 22:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 03:49	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 08:30	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (15-17) L1365156-03 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 09:00 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:55	06/16/21 13:55	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:06	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:00	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:52	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:32	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 21:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 22:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 04:02	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 08:48	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (20-22) L1365156-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 09:20 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 13:58	06/16/21 13:58	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:16	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:09	KMG	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (20-22) L1365156-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 09:20 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:55	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 21:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 22:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1691094	10	06/15/21 11:34	06/18/21 17:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	10	06/13/21 18:44	06/14/21 05:07	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 09:06	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (25-27) L1365156-05 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 09:55 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:01	06/16/21 14:01	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:25	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/17/21 23:38	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 12:58	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:10	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 21:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 23:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 04:41	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 09:59	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (30-32) L1365156-06 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 10:20 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:04	06/16/21 14:04	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:48	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:13	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 13:00	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:46	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 22:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 23:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1691094	1	06/15/21 11:34	06/18/21 18:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	10	06/13/21 18:44	06/14/21 05:46	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 10:17	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (35-37) L1365156-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 10:50 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:07	06/16/21 14:07	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:53	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:16	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 13:03	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:49	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 22:38	ACG	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (35-37) L1365156-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 10:50 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/17/21 23:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1691094	1	06/15/21 11:34	06/18/21 18:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	10	06/13/21 18:44	06/14/21 05:33	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 10:35	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (40-42) L1365156-08 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 11:20 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:09	06/16/21 14:09	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 14:59	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:19	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 13:07	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 23:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1689887	1	06/15/21 11:34	06/18/21 00:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1691094	1	06/15/21 11:34	06/18/21 18:44	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 04:28	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 10:53	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (45-47) L1365156-09 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 12:05 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:12	06/16/21 14:12	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 15:04	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:23	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 13:10	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:56	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 23:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1690151	1	06/15/21 11:34	06/17/21 10:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 04:15	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 11:11	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (50-52) L1365156-10 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 12:55 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:15	06/16/21 14:15	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 15:09	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688481	1	06/14/21 20:41	06/15/21 11:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:26	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 14:26	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/17/21 23:59	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/15/21 23:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1690682	1	06/15/21 11:34	06/18/21 01:35	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/14/21 01:14	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 11:28	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (52-54) L1365156-11 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 13:30 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:18	06/16/21 14:18	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 15:14	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688897	1	06/16/21 09:08	06/16/21 13:00	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:29	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 14:29	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/18/21 00:02	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/16/21 00:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1690682	1	06/15/21 11:34	06/18/21 01:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	1	06/13/21 18:44	06/18/21 14:11	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 11:46	LEA	Mt. Juliet, TN

20210610-TEXACOFEE-62-14-SB3 (59-60.5) L1365156-12 Solid

Collected by: Reed Johnson | Collected date/time: 06/10/21 14:35 | Received date/time: 06/11/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1687908	1	06/16/21 14:35	06/16/21 14:35	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1690663	1	06/17/21 23:56	06/18/21 15:19	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1688897	1	06/16/21 09:07	06/16/21 13:00	ARM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1690051	1	06/17/21 03:55	06/17/21 08:57	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1687982	1	06/17/21 06:55	06/18/21 00:33	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1687907	1	06/15/21 10:53	06/16/21 14:32	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1687980	5	06/17/21 06:50	06/18/21 00:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1688999	1	06/15/21 11:34	06/16/21 00:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1690682	1	06/15/21 11:34	06/18/21 02:13	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1687817	10	06/13/21 18:44	06/14/21 05:20	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1688275	1	06/16/21 23:51	06/17/21 12:04	LEA	Mt. Juliet, TN

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.

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.94		1	06/16/2021 13:44	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:33	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.23	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-01 WG1688481: 9.23 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	489		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	299		0.500	1	06/17/2021 23:53	WG1687982
Cadmium	ND		0.500	1	06/17/2021 23:53	WG1687982
Copper	12.6		2.00	1	06/17/2021 23:53	WG1687982
Lead	7.06		0.500	1	06/17/2021 23:53	WG1687982
Nickel	15.1		2.00	1	06/17/2021 23:53	WG1687982
Selenium	ND		2.00	1	06/17/2021 23:53	WG1687982
Silver	ND		1.00	1	06/17/2021 23:53	WG1687982
Zinc	46.7		5.00	1	06/17/2021 23:53	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.580		0.200	1	06/16/2021 12:46	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.49		1.00	5	06/17/2021 23:26	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.515		0.100	1	06/15/2021 20:14	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*92.3*		*77.0-120*		*06/15/2021 20:14*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 21:42	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 21:42	WG1689887
Benzene	ND		0.00100	1	06/17/2021 21:42	WG1689887
Bromobenzene	ND		0.0125	1	06/17/2021 21:42	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 21:42	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 21:42	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 21:42	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 21:42	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 21:42	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 21:42	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 21:42	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 21:42	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 21:42	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 21:42	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 21:42	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 21:42	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 21:42	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 21:42	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 21:42	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 21:42	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 21:42	WG1689887
Ethylbenzene	ND		0.00250	1	06/17/2021 21:42	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 21:42	WG1689887
Isopropylbenzene	ND		0.00250	1	06/17/2021 21:42	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 21:42	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 21:42	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 21:42	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 21:42	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 21:42	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 21:42	WG1689887
n-Propylbenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
Styrene	ND		0.0125	1	06/17/2021 21:42	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 21:42	WG1689887
Toluene	0.00983		0.00500	1	06/17/2021 21:42	WG1689887
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 21:42	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 21:42	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 21:42	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 21:42	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 21:42	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
1,3,5-Trimethylbenzene	ND		0.00500	1	06/17/2021 21:42	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 21:42	WG1689887
Xylenes, Total	0.0163		0.00650	1	06/17/2021 21:42	WG1689887
(S) Toluene-d8	*102*		*75.0-131*		*06/17/2021 21:42*	WG1689887
(S) 4-Bromofluorobenzene	*97.1*		*67.0-138*		*06/17/2021 21:42*	WG1689887
(S) 1,2-Dichloroethane-d4	*91.9*		*70.0-130*		*06/17/2021 21:42*	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	06/14/2021 03:36	WG1687817
C28-C36 Motor Oil Range	9.49		4.00	1	06/14/2021 03:36	WG1687817
(S) o-Terphenyl	*62.3*		*18.0-148*		*06/14/2021 03:36*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 08:12	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 08:12	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 08:12	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:12	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:12	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 08:12	WG1688275
(S) p-Terphenyl-d14	*85.6*		*23.0-120*		*06/17/2021 08:12*	WG1688275
(S) Nitrobenzene-d5	*84.0*		*14.0-149*		*06/17/2021 08:12*	WG1688275
(S) 2-Fluorobiphenyl	*77.5*		*34.0-125*		*06/17/2021 08:12*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.11		1	06/16/2021 13:52	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:00	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.48	T8	1	06/16/2021 13:00	WG1688897

Sample Narrative:

L1365156-02 WG1688897: 9.48 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	461		10.0	1	06/16/2021 20:09	WG1687693

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	332		0.500	1	06/17/2021 23:57	WG1687982
Cadmium	ND		0.500	1	06/17/2021 23:57	WG1687982
Copper	12.5		2.00	1	06/17/2021 23:57	WG1687982
Lead	6.69		0.500	1	06/17/2021 23:57	WG1687982
Nickel	16.4		2.00	1	06/17/2021 23:57	WG1687982
Selenium	ND		2.00	1	06/17/2021 23:57	WG1687982
Silver	ND		1.00	1	06/17/2021 23:57	WG1687982
Zinc	44.9		5.00	1	06/17/2021 23:57	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.300		0.200	1	06/16/2021 12:49	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.03		1.00	5	06/17/2021 23:29	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.146	B	0.100	1	06/15/2021 20:38	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*95.8*		*77.0-120*		*06/15/2021 20:38*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 22:02	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 22:02	WG1689887
Benzene	ND		0.00100	1	06/17/2021 22:02	WG1689887
Bromobenzene	ND		0.0125	1	06/17/2021 22:02	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 22:02	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 22:02	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 22:02	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 22:02	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 22:02	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 22:02	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 22:02	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 22:02	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 22:02	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 22:02	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 22:02	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 22:02	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 22:02	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 22:02	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 22:02	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 22:02	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 22:02	WG1689887
Ethylbenzene	ND		0.00250	1	06/17/2021 22:02	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 22:02	WG1689887
Isopropylbenzene	ND		0.00250	1	06/17/2021 22:02	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 22:02	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 22:02	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 22:02	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 22:02	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 22:02	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 22:02	WG1689887
n-Propylbenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
Styrene	ND		0.0125	1	06/17/2021 22:02	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 22:02	WG1689887
Toluene	0.00515		0.00500	1	06/17/2021 22:02	WG1689887
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:02	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:02	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 22:02	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 22:02	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 22:02	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 22:02	WG1689887
1,3,5-Trimethylbenzene	0.0117		0.00500	1	06/17/2021 22:02	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 22:02	WG1689887
Xylenes, Total	0.00872		0.00650	1	06/17/2021 22:02	WG1689887
(S) Toluene-d8	*102*		*75.0-131*		*06/17/2021 22:02*	WG1689887
(S) 4-Bromofluorobenzene	*97.0*		*67.0-138*		*06/17/2021 22:02*	WG1689887
(S) 1,2-Dichloroethane-d4	*96.0*		*70.0-130*		*06/17/2021 22:02*	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.23		4.00	1	06/14/2021 03:49	WG1687817
C28-C36 Motor Oil Range	20.1		4.00	1	06/14/2021 03:49	WG1687817
(S) o-Terphenyl	*64.3*		*18.0-148*		*06/14/2021 03:49*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 08:30	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 08:30	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 08:30	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:30	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:30	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 08:30	WG1688275
(S) p-Terphenyl-d14	*102*		*23.0-120*		*06/17/2021 08:30*	WG1688275
(S) Nitrobenzene-d5	*91.6*		*14.0-149*		*06/17/2021 08:30*	WG1688275
(S) 2-Fluorobiphenyl	*90.1*		*34.0-125*		*06/17/2021 08:30*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.22		1	06/16/2021 13:55	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:06	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.27	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-03 WG1688481: 9.27 at 21.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	473		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	274		0.500	1	06/18/2021 00:00	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:00	WG1687982
Copper	16.7		2.00	1	06/18/2021 00:00	WG1687982
Lead	10.3		0.500	1	06/18/2021 00:00	WG1687982
Nickel	22.3		2.00	1	06/18/2021 00:00	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:00	WG1687982
Silver	ND		1.00	1	06/18/2021 00:00	WG1687982
Zinc	54.9		5.00	1	06/18/2021 00:00	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.287		0.200	1	06/16/2021 12:52	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	18.2		1.00	5	06/17/2021 23:32	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.90		0.100	1	06/15/2021 21:02	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*91.5*		*77.0-120*		*06/15/2021 21:02*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 22:22	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 22:22	WG1689887
Benzene	ND		0.00100	1	06/17/2021 22:22	WG1689887
Bromobenzene	ND		0.0125	1	06/17/2021 22:22	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 22:22	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 22:22	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 22:22	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 22:22	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 22:22	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 22:22	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 22:22	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 22:22	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 22:22	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 22:22	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 22:22	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 22:22	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:22	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 22:22	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 22:22	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 22:22	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 22:22	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 22:22	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 22:22	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 22:22	WG1689887
Ethylbenzene	0.0331		0.00250	1	06/17/2021 22:22	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 22:22	WG1689887
Isopropylbenzene	0.0132		0.00250	1	06/17/2021 22:22	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 22:22	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 22:22	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 22:22	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 22:22	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 22:22	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 22:22	WG1689887
n-Propylbenzene	0.0185		0.00500	1	06/17/2021 22:22	WG1689887
Styrene	ND		0.0125	1	06/17/2021 22:22	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 22:22	WG1689887
Toluene	0.0154		0.00500	1	06/17/2021 22:22	WG1689887
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:22	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:22	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 22:22	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	0.0164		0.00250	1	06/17/2021 22:22	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 22:22	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 22:22	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 22:22	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 22:22	WG1689887
1,2,3-Trimethylbenzene	0.0100		0.00500	1	06/17/2021 22:22	WG1689887
1,3,5-Trimethylbenzene	0.0512		0.00500	1	06/17/2021 22:22	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 22:22	WG1689887
Xylenes, Total	0.102		0.00650	1	06/17/2021 22:22	WG1689887
(S) Toluene-d8	*99.2*		*75.0-131*		*06/17/2021 22:22*	WG1689887
(S) 4-Bromofluorobenzene	*96.6*		*67.0-138*		*06/17/2021 22:22*	WG1689887
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*06/17/2021 22:22*	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.1		4.00	1	06/14/2021 04:02	WG1687817
C28-C36 Motor Oil Range	25.1		4.00	1	06/14/2021 04:02	WG1687817
(S) o-Terphenyl	*62.2*		*18.0-148*		*06/14/2021 04:02*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 08:48	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 08:48	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 08:48	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:48	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 08:48	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 08:48	WG1688275
(S) p-Terphenyl-d14	*87.6*		*23.0-120*		*06/17/2021 08:48*	WG1688275
(S) Nitrobenzene-d5	*85.0*		*14.0-149*		*06/17/2021 08:48*	WG1688275
(S) 2-Fluorobiphenyl	*78.6*		*34.0-125*		*06/17/2021 08:48*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.53		1	06/16/2021 13:58	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:16	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.63	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-04 WG1688481: 8.63 at 21.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	655		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	311		0.500	1	06/18/2021 00:09	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:09	WG1687982
Copper	26.0		2.00	1	06/18/2021 00:09	WG1687982
Lead	9.42		0.500	1	06/18/2021 00:09	WG1687982
Nickel	20.0		2.00	1	06/18/2021 00:09	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:09	WG1687982
Silver	ND		1.00	1	06/18/2021 00:09	WG1687982
Zinc	54.6		5.00	1	06/18/2021 00:09	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.254		0.200	1	06/16/2021 12:55	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.1		1.00	5	06/17/2021 23:43	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.85		0.100	1	06/15/2021 21:26	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*93.0*		*77.0-120*		*06/15/2021 21:26*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 22:42	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 22:42	WG1689887
Benzene	0.0920		0.00100	1	06/17/2021 22:42	WG1689887
Bromobenzene	ND		0.0125	1	06/17/2021 22:42	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 22:42	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 22:42	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 22:42	WG1689887
sec-Butylbenzene	0.0178		0.0125	1	06/17/2021 22:42	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 22:42	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 22:42	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 22:42	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 22:42	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 22:42	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 22:42	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 22:42	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 22:42	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 22:42	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 22:42	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 22:42	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 22:42	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 22:42	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 22:42	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 22:42	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 22:42	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 22:42	WG1689887
Ethylbenzene	0.420		0.00250	1	06/17/2021 22:42	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 22:42	WG1689887
Isopropylbenzene	0.0745		0.00250	1	06/17/2021 22:42	WG1689887
p-Isopropyltoluene	0.0189		0.00500	1	06/17/2021 22:42	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 22:42	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 22:42	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 22:42	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 22:42	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 22:42	WG1689887
n-Propylbenzene	0.119		0.00500	1	06/17/2021 22:42	WG1689887
Styrene	ND		0.0125	1	06/17/2021 22:42	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 22:42	WG1689887
Toluene	12.7		0.0500	10	06/18/2021 17:47	WG1691094
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:42	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 22:42	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 22:42	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	0.0327		0.00250	1	06/17/2021 22:42	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 22:42	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 22:42	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 22:42	WG1689887
1,2,4-Trimethylbenzene	0.454		0.00500	1	06/17/2021 22:42	WG1689887
1,2,3-Trimethylbenzene	0.0826		0.00500	1	06/17/2021 22:42	WG1689887
1,3,5-Trimethylbenzene	0.386		0.00500	1	06/17/2021 22:42	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 22:42	WG1689887
Xylenes, Total	4.69		0.00650	1	06/17/2021 22:42	WG1689887
(S) Toluene-d8	*101*		*75.0-131*		*06/17/2021 22:42*	WG1689887
(S) Toluene-d8	*101*		*75.0-131*		*06/18/2021 17:47*	WG1691094
(S) 4-Bromofluorobenzene	*98.4*		*67.0-138*		*06/17/2021 22:42*	WG1689887
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*06/18/2021 17:47*	WG1691094
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*06/17/2021 22:42*	WG1689887
(S) 1,2-Dichloroethane-d4	*96.5*		*70.0-130*		*06/18/2021 17:47*	WG1691094

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	73.0		40.0	10	06/14/2021 05:07	WG1687817
C28-C36 Motor Oil Range	157		40.0	10	06/14/2021 05:07	WG1687817
(S) o-Terphenyl	*70.2*		*18.0-148*		*06/14/2021 05:07*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 09:06	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 09:06	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 09:06	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 09:06	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 09:06	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 09:06	WG1688275
(S) p-Terphenyl-d14	*104*		*23.0-120*		*06/17/2021 09:06*	WG1688275
(S) Nitrobenzene-d5	*97.2*		*14.0-149*		*06/17/2021 09:06*	WG1688275
(S) 2-Fluorobiphenyl	*92.9*		*34.0-125*		*06/17/2021 09:06*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.09		1	06/16/2021 14:01	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:25	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.36	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-05 WG1688481: 8.36 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1580		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	235	J5 O1	0.500	1	06/17/2021 23:38	WG1687982
Cadmium	ND		0.500	1	06/17/2021 23:38	WG1687982
Copper	15.6		2.00	1	06/17/2021 23:38	WG1687982
Lead	6.84		0.500	1	06/17/2021 23:38	WG1687982
Nickel	19.0		2.00	1	06/17/2021 23:38	WG1687982
Selenium	ND		2.00	1	06/17/2021 23:38	WG1687982
Silver	ND		1.00	1	06/17/2021 23:38	WG1687982
Zinc	53.3	O1	5.00	1	06/17/2021 23:38	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.231		0.200	1	06/16/2021 12:58	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.9		1.00	5	06/17/2021 23:10	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.80		0.100	1	06/15/2021 21:50	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*90.8*		*77.0-120*		*06/15/2021 21:50*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 23:03	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 23:03	WG1689887
Benzene	0.143		0.00100	1	06/17/2021 23:03	WG1689887
Bromobenzene	ND		0.0125	1	06/17/2021 23:03	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 23:03	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 23:03	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 23:03	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 23:03	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 23:03	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 23:03	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 23:03	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 23:03	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 23:03	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 23:03	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 23:03	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 23:03	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:03	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 23:03	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 23:03	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 23:03	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 23:03	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 23:03	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 23:03	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 23:03	WG1689887
Ethylbenzene	0.213		0.00250	1	06/17/2021 23:03	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 23:03	WG1689887
Isopropylbenzene	0.0304		0.00250	1	06/17/2021 23:03	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 23:03	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 23:03	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 23:03	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 23:03	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 23:03	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 23:03	WG1689887
n-Propylbenzene	0.0350		0.00500	1	06/17/2021 23:03	WG1689887
Styrene	ND		0.0125	1	06/17/2021 23:03	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 23:03	WG1689887
Toluene	2.11		0.00500	1	06/17/2021 23:03	WG1689887
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:03	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:03	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 23:03	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	0.0331		0.00250	1	06/17/2021 23:03	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 23:03	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 23:03	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 23:03	WG1689887
1,2,4-Trimethylbenzene	0.0482		0.00500	1	06/17/2021 23:03	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:03	WG1689887
1,3,5-Trimethylbenzene	0.0661		0.00500	1	06/17/2021 23:03	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 23:03	WG1689887
Xylenes, Total	1.92		0.00650	1	06/17/2021 23:03	WG1689887
(S) Toluene-d8	*102*		*75.0-131*		*06/17/2021 23:03*	WG1689887
(S) 4-Bromofluorobenzene	*99.4*		*67.0-138*		*06/17/2021 23:03*	WG1689887
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*06/17/2021 23:03*	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.5		4.00	1	06/14/2021 04:41	WG1687817
C28-C36 Motor Oil Range	43.6		4.00	1	06/14/2021 04:41	WG1687817
(S) o-Terphenyl	*67.3*		*18.0-148*		*06/14/2021 04:41*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 09:59	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 09:59	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 09:59	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 09:59	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 09:59	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 09:59	WG1688275
(S) p-Terphenyl-d14	*97.6*		*23.0-120*		*06/17/2021 09:59*	WG1688275
(S) Nitrobenzene-d5	*92.9*		*14.0-149*		*06/17/2021 09:59*	WG1688275
(S) 2-Fluorobiphenyl	*85.6*		*34.0-125*		*06/17/2021 09:59*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.10		1	06/16/2021 14:04	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:48	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-06 WG1688481: 8.27 at 21.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3420		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	370		0.500	1	06/18/2021 00:13	WG1687982
Cadmium	0.578		0.500	1	06/18/2021 00:13	WG1687982
Copper	19.0		2.00	1	06/18/2021 00:13	WG1687982
Lead	9.43		0.500	1	06/18/2021 00:13	WG1687982
Nickel	20.4		2.00	1	06/18/2021 00:13	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:13	WG1687982
Silver	ND		1.00	1	06/18/2021 00:13	WG1687982
Zinc	54.5		5.00	1	06/18/2021 00:13	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.244		0.200	1	06/16/2021 13:00	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.2		1.00	5	06/17/2021 23:46	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.64		0.100	1	06/15/2021 22:14	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*91.8*		*77.0-120*		*06/15/2021 22:14*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 23:22	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 23:22	WG1689887
Benzene	0.477		0.00100	1	06/18/2021 18:06	WG1691094
Bromobenzene	ND		0.0125	1	06/17/2021 23:22	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 23:22	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 23:22	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 23:22	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 23:22	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 23:22	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 23:22	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 23:22	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 23:22	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 23:22	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 23:22	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 23:22	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 23:22	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 23:22	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 23:22	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 23:22	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 23:22	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 23:22	WG1689887
Ethylbenzene	ND		0.00250	1	06/17/2021 23:22	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 23:22	WG1689887
Isopropylbenzene	ND		0.00250	1	06/17/2021 23:22	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 23:22	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 23:22	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 23:22	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 23:22	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 23:22	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 23:22	WG1689887
n-Propylbenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
Styrene	ND		0.0125	1	06/17/2021 23:22	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 23:22	WG1689887
Toluene	1.51		0.00500	1	06/18/2021 18:06	WG1691094
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:22	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:22	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 23:22	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 23:22	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 23:22	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
1,3,5-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:22	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 23:22	WG1689887
Xylenes, Total	0.0778		0.00650	1	06/18/2021 18:06	WG1691094
(S) Toluene-d8	*101*		*75.0-131*		*06/17/2021 23:22*	WG1689887
(S) Toluene-d8	*108*		*75.0-131*		*06/18/2021 18:06*	WG1691094
(S) 4-Bromofluorobenzene	*95.8*		*67.0-138*		*06/17/2021 23:22*	WG1689887
(S) 4-Bromofluorobenzene	*98.2*		*67.0-138*		*06/18/2021 18:06*	WG1691094
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*06/17/2021 23:22*	WG1689887
(S) 1,2-Dichloroethane-d4	*93.8*		*70.0-130*		*06/18/2021 18:06*	WG1691094

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	82.3		40.0	10	06/14/2021 05:46	WG1687817
C28-C36 Motor Oil Range	159		40.0	10	06/14/2021 05:46	WG1687817
(S) o-Terphenyl	*51.7*		*18.0-148*		*06/14/2021 05:46*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 10:17	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 10:17	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 10:17	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:17	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:17	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 10:17	WG1688275
(S) p-Terphenyl-d14	*95.7*		*23.0-120*		*06/17/2021 10:17*	WG1688275
(S) Nitrobenzene-d5	*89.3*		*14.0-149*		*06/17/2021 10:17*	WG1688275
(S) 2-Fluorobiphenyl	*86.1*		*34.0-125*		*06/17/2021 10:17*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.01		1	06/16/2021 14:07	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:53	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-07 WG1688481: 8.33 at 21.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1580		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	333		0.500	1	06/18/2021 00:16	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:16	WG1687982
Copper	19.1		2.00	1	06/18/2021 00:16	WG1687982
Lead	8.83		0.500	1	06/18/2021 00:16	WG1687982
Nickel	19.4		2.00	1	06/18/2021 00:16	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:16	WG1687982
Silver	ND		1.00	1	06/18/2021 00:16	WG1687982
Zinc	51.3		5.00	1	06/18/2021 00:16	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/16/2021 13:03	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.7		1.00	5	06/17/2021 23:49	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.761		0.100	1	06/15/2021 22:38	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*93.6*		*77.0-120*		*06/15/2021 22:38*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 23:42	WG1689887
Acrylonitrile	ND		0.0125	1	06/17/2021 23:42	WG1689887
Benzene	0.156		0.00100	1	06/18/2021 18:25	WG1691094
Bromobenzene	ND		0.0125	1	06/17/2021 23:42	WG1689887
Bromodichloromethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Bromoform	ND		0.0250	1	06/17/2021 23:42	WG1689887
Bromomethane	ND		0.0125	1	06/17/2021 23:42	WG1689887
n-Butylbenzene	ND		0.0125	1	06/17/2021 23:42	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/17/2021 23:42	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/17/2021 23:42	WG1689887
Chlorobenzene	ND		0.00250	1	06/17/2021 23:42	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Chloroethane	ND		0.00500	1	06/17/2021 23:42	WG1689887
Chloroform	ND		0.00250	1	06/17/2021 23:42	WG1689887
Chloromethane	ND		0.0125	1	06/17/2021 23:42	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/17/2021 23:42	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 23:42	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Dibromomethane	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 23:42	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 23:42	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 23:42	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 23:42	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 23:42	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/17/2021 23:42	WG1689887
Ethylbenzene	ND		0.00250	1	06/17/2021 23:42	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 23:42	WG1689887
Isopropylbenzene	ND		0.00250	1	06/17/2021 23:42	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 23:42	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/17/2021 23:42	WG1689887
Methylene Chloride	ND		0.0250	1	06/17/2021 23:42	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 23:42	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 23:42	WG1689887
Naphthalene	ND		0.0125	1	06/17/2021 23:42	WG1689887
n-Propylbenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
Styrene	ND		0.0125	1	06/17/2021 23:42	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Tetrachloroethene	ND		0.00250	1	06/17/2021 23:42	WG1689887
Toluene	0.638		0.00500	1	06/18/2021 18:25	WG1691094
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:42	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 23:42	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
Trichloroethene	ND		0.00100	1	06/17/2021 23:42	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 23:42	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 23:42	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
1,3,5-Trimethylbenzene	ND		0.00500	1	06/17/2021 23:42	WG1689887
Vinyl chloride	ND		0.00250	1	06/17/2021 23:42	WG1689887
Xylenes, Total	0.0263		0.00650	1	06/18/2021 18:25	WG1691094
(S) Toluene-d8	*101*		*75.0-131*		*06/17/2021 23:42*	WG1689887
(S) Toluene-d8	*105*		*75.0-131*		*06/18/2021 18:25*	WG1691094
(S) 4-Bromofluorobenzene	*97.9*		*67.0-138*		*06/17/2021 23:42*	WG1689887
(S) 4-Bromofluorobenzene	*97.1*		*67.0-138*		*06/18/2021 18:25*	WG1691094
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*06/17/2021 23:42*	WG1689887
(S) 1,2-Dichloroethane-d4	*91.4*		*70.0-130*		*06/18/2021 18:25*	WG1691094

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	42.9		40.0	10	06/14/2021 05:33	WG1687817
C28-C36 Motor Oil Range	98.4		40.0	10	06/14/2021 05:33	WG1687817
(S) o-Terphenyl	*64.7*		*18.0-148*		*06/14/2021 05:33*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 10:35	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 10:35	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 10:35	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:35	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:35	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 10:35	WG1688275
(S) p-Terphenyl-d14	*89.0*		*23.0-120*		*06/17/2021 10:35*	WG1688275
(S) Nitrobenzene-d5	*86.3*		*14.0-149*		*06/17/2021 10:35*	WG1688275
(S) 2-Fluorobiphenyl	*82.5*		*34.0-125*		*06/17/2021 10:35*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.85		1	06/16/2021 14:09	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 14:59	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-08 WG1688481: 8.05 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3160		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	257		0.500	1	06/18/2021 00:19	WG1687982
Cadmium	0.536		0.500	1	06/18/2021 00:19	WG1687982
Copper	17.2		2.00	1	06/18/2021 00:19	WG1687982
Lead	9.95		0.500	1	06/18/2021 00:19	WG1687982
Nickel	19.9		2.00	1	06/18/2021 00:19	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:19	WG1687982
Silver	ND		1.00	1	06/18/2021 00:19	WG1687982
Zinc	63.7		5.00	1	06/18/2021 00:19	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.205		0.200	1	06/16/2021 13:07	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.0		1.00	5	06/17/2021 23:53	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.34		0.100	1	06/15/2021 23:01	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*93.8*		*77.0-120*		*06/15/2021 23:01*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND	J3	0.0500	1	06/18/2021 00:02	WG1689887
Acrylonitrile	ND		0.0125	1	06/18/2021 00:02	WG1689887
Benzene	0.104		0.00100	1	06/18/2021 18:44	WG1691094
Bromobenzene	ND		0.0125	1	06/18/2021 00:02	WG1689887
Bromodichloromethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
Bromoform	ND		0.0250	1	06/18/2021 00:02	WG1689887
Bromomethane	ND		0.0125	1	06/18/2021 00:02	WG1689887
n-Butylbenzene	ND		0.0125	1	06/18/2021 00:02	WG1689887
sec-Butylbenzene	ND		0.0125	1	06/18/2021 00:02	WG1689887
tert-Butylbenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
Carbon tetrachloride	ND		0.00500	1	06/18/2021 00:02	WG1689887
Chlorobenzene	ND		0.00250	1	06/18/2021 00:02	WG1689887
Chlorodibromomethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
Chloroethane	ND		0.00500	1	06/18/2021 00:02	WG1689887
Chloroform	ND		0.00250	1	06/18/2021 00:02	WG1689887
Chloromethane	ND		0.0125	1	06/18/2021 00:02	WG1689887
2-Chlorotoluene	ND		0.00250	1	06/18/2021 00:02	WG1689887
4-Chlorotoluene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/18/2021 00:02	WG1689887
1,2-Dibromoethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
Dibromomethane	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,2-Dichlorobenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,3-Dichlorobenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,4-Dichlorobenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
Dichlorodifluoromethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,1-Dichloroethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,2-Dichloroethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,1-Dichloroethene	ND		0.00250	1	06/18/2021 00:02	WG1689887
cis-1,2-Dichloroethene	ND		0.00250	1	06/18/2021 00:02	WG1689887
trans-1,2-Dichloroethene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,2-Dichloropropane	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,1-Dichloropropene	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,3-Dichloropropane	ND		0.00500	1	06/18/2021 00:02	WG1689887
cis-1,3-Dichloropropene	ND		0.00250	1	06/18/2021 00:02	WG1689887
trans-1,3-Dichloropropene	ND		0.00500	1	06/18/2021 00:02	WG1689887
2,2-Dichloropropane	ND		0.00250	1	06/18/2021 00:02	WG1689887
Di-isopropyl ether	ND		0.00100	1	06/18/2021 00:02	WG1689887
Ethylbenzene	ND		0.00250	1	06/18/2021 00:02	WG1689887
Hexachloro-1,3-butadiene	ND		0.0250	1	06/18/2021 00:02	WG1689887
Isopropylbenzene	ND		0.00250	1	06/18/2021 00:02	WG1689887
p-Isopropyltoluene	ND		0.00500	1	06/18/2021 00:02	WG1689887
2-Butanone (MEK)	ND		0.100	1	06/18/2021 00:02	WG1689887
Methylene Chloride	ND		0.0250	1	06/18/2021 00:02	WG1689887
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/18/2021 00:02	WG1689887
Methyl tert-butyl ether	ND		0.00100	1	06/18/2021 00:02	WG1689887
Naphthalene	ND		0.0125	1	06/18/2021 00:02	WG1689887
n-Propylbenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
Styrene	ND		0.0125	1	06/18/2021 00:02	WG1689887
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,1,2,2-Tetrachloroethane	ND	J3	0.00250	1	06/18/2021 00:02	WG1689887
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
Tetrachloroethene	ND		0.00250	1	06/18/2021 00:02	WG1689887
Toluene	0.173		0.00500	1	06/18/2021 18:44	WG1691094
1,2,3-Trichlorobenzene	ND		0.0125	1	06/18/2021 00:02	WG1689887
1,2,4-Trichlorobenzene	ND		0.0125	1	06/18/2021 00:02	WG1689887
1,1,1-Trichloroethane	ND		0.00250	1	06/18/2021 00:02	WG1689887

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	0.0149		0.00250	1	06/18/2021 00:02	WG1689887
Trichloroethene	ND		0.00100	1	06/18/2021 00:02	WG1689887
Trichlorofluoromethane	ND		0.00250	1	06/18/2021 00:02	WG1689887
1,2,3-Trichloropropane	ND		0.0125	1	06/18/2021 00:02	WG1689887
1,2,4-Trimethylbenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,2,3-Trimethylbenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
1,3,5-Trimethylbenzene	ND		0.00500	1	06/18/2021 00:02	WG1689887
Vinyl chloride	ND		0.00250	1	06/18/2021 00:02	WG1689887
Xylenes, Total	ND		0.00650	1	06/18/2021 00:02	WG1689887
(S) Toluene-d8	*104*		*75.0-131*		*06/18/2021 00:02*	WG1689887
(S) Toluene-d8	*107*		*75.0-131*		*06/18/2021 18:44*	WG1691094
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*06/18/2021 00:02*	WG1689887
(S) 4-Bromofluorobenzene	*99.5*		*67.0-138*		*06/18/2021 18:44*	WG1691094
(S) 1,2-Dichloroethane-d4	*96.9*		*70.0-130*		*06/18/2021 00:02*	WG1689887
(S) 1,2-Dichloroethane-d4	*91.8*		*70.0-130*		*06/18/2021 18:44*	WG1691094

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	34.8		4.00	1	06/14/2021 04:28	WG1687817
C28-C36 Motor Oil Range	74.3		4.00	1	06/14/2021 04:28	WG1687817
(S) o-Terphenyl	*60.5*		*18.0-148*		*06/14/2021 04:28*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 10:53	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 10:53	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 10:53	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:53	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 10:53	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 10:53	WG1688275
(S) p-Terphenyl-d14	*103*		*23.0-120*		*06/17/2021 10:53*	WG1688275
(S) Nitrobenzene-d5	*95.1*		*14.0-149*		*06/17/2021 10:53*	WG1688275
(S) 2-Fluorobiphenyl	*92.2*		*34.0-125*		*06/17/2021 10:53*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.69		1	06/16/2021 14:12	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 15:04	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.00	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-09 WG1688481: 8 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	4080		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	379		0.500	1	06/18/2021 00:23	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:23	WG1687982
Copper	13.6		2.00	1	06/18/2021 00:23	WG1687982
Lead	8.26		0.500	1	06/18/2021 00:23	WG1687982
Nickel	16.4		2.00	1	06/18/2021 00:23	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:23	WG1687982
Silver	ND		1.00	1	06/18/2021 00:23	WG1687982
Zinc	48.3		5.00	1	06/18/2021 00:23	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/16/2021 13:10	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.8		1.00	5	06/17/2021 23:56	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.19		0.100	1	06/15/2021 23:25	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*92.3*		*77.0-120*		*06/15/2021 23:25*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/17/2021 10:15	WG1690151
Acrylonitrile	ND		0.0125	1	06/17/2021 10:15	WG1690151
Benzene	0.0298		0.00100	1	06/17/2021 10:15	WG1690151
Bromobenzene	ND		0.0125	1	06/17/2021 10:15	WG1690151
Bromodichloromethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Bromoform	ND		0.0250	1	06/17/2021 10:15	WG1690151
Bromomethane	ND		0.0125	1	06/17/2021 10:15	WG1690151
n-Butylbenzene	ND		0.0125	1	06/17/2021 10:15	WG1690151
sec-Butylbenzene	ND		0.0125	1	06/17/2021 10:15	WG1690151
tert-Butylbenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
Carbon tetrachloride	ND		0.00500	1	06/17/2021 10:15	WG1690151
Chlorobenzene	ND		0.00250	1	06/17/2021 10:15	WG1690151
Chlorodibromomethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Chloroethane	ND		0.00500	1	06/17/2021 10:15	WG1690151
Chloroform	ND		0.00250	1	06/17/2021 10:15	WG1690151
Chloromethane	ND		0.0125	1	06/17/2021 10:15	WG1690151
2-Chlorotoluene	ND		0.00250	1	06/17/2021 10:15	WG1690151
4-Chlorotoluene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/17/2021 10:15	WG1690151
1,2-Dibromoethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Dibromomethane	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,2-Dichlorobenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,3-Dichlorobenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,4-Dichlorobenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
Dichlorodifluoromethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,1-Dichloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,2-Dichloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,1-Dichloroethene	ND		0.00250	1	06/17/2021 10:15	WG1690151
cis-1,2-Dichloroethene	ND		0.00250	1	06/17/2021 10:15	WG1690151
trans-1,2-Dichloroethene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,2-Dichloropropane	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,1-Dichloropropene	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,3-Dichloropropane	ND		0.00500	1	06/17/2021 10:15	WG1690151
cis-1,3-Dichloropropene	ND		0.00250	1	06/17/2021 10:15	WG1690151
trans-1,3-Dichloropropene	ND		0.00500	1	06/17/2021 10:15	WG1690151
2,2-Dichloropropane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Di-isopropyl ether	ND		0.00100	1	06/17/2021 10:15	WG1690151
Ethylbenzene	ND		0.00250	1	06/17/2021 10:15	WG1690151
Hexachloro-1,3-butadiene	ND		0.0250	1	06/17/2021 10:15	WG1690151
Isopropylbenzene	ND		0.00250	1	06/17/2021 10:15	WG1690151
p-Isopropyltoluene	ND		0.00500	1	06/17/2021 10:15	WG1690151
2-Butanone (MEK)	ND		0.100	1	06/17/2021 10:15	WG1690151
Methylene Chloride	ND		0.0250	1	06/17/2021 10:15	WG1690151
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/17/2021 10:15	WG1690151
Methyl tert-butyl ether	ND		0.00100	1	06/17/2021 10:15	WG1690151
Naphthalene	ND		0.0125	1	06/17/2021 10:15	WG1690151
n-Propylbenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
Styrene	ND		0.0125	1	06/17/2021 10:15	WG1690151
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Tetrachloroethene	ND		0.00250	1	06/17/2021 10:15	WG1690151
Toluene	0.0605		0.00500	1	06/17/2021 10:15	WG1690151
1,2,3-Trichlorobenzene	ND		0.0125	1	06/17/2021 10:15	WG1690151
1,2,4-Trichlorobenzene	ND		0.0125	1	06/17/2021 10:15	WG1690151
1,1,1-Trichloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
Trichloroethene	ND		0.00100	1	06/17/2021 10:15	WG1690151
Trichlorofluoromethane	ND		0.00250	1	06/17/2021 10:15	WG1690151
1,2,3-Trichloropropane	ND		0.0125	1	06/17/2021 10:15	WG1690151
1,2,4-Trimethylbenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,2,3-Trimethylbenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
1,3,5-Trimethylbenzene	ND		0.00500	1	06/17/2021 10:15	WG1690151
Vinyl chloride	ND		0.00250	1	06/17/2021 10:15	WG1690151
Xylenes, Total	ND		0.00650	1	06/17/2021 10:15	WG1690151
(S) Toluene-d8	*101*		*75.0-131*		*06/17/2021 10:15*	WG1690151
(S) 4-Bromofluorobenzene	*97.6*		*67.0-138*		*06/17/2021 10:15*	WG1690151
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*06/17/2021 10:15*	WG1690151

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	37.7		4.00	1	06/14/2021 04:15	WG1687817
C28-C36 Motor Oil Range	81.1		4.00	1	06/14/2021 04:15	WG1687817
(S) o-Terphenyl	*58.7*		*18.0-148*		*06/14/2021 04:15*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 11:11	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 11:11	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 11:11	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:11	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:11	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 11:11	WG1688275
(S) p-Terphenyl-d14	*93.5*		*23.0-120*		*06/17/2021 11:11*	WG1688275
(S) Nitrobenzene-d5	*89.5*		*14.0-149*		*06/17/2021 11:11*	WG1688275
(S) 2-Fluorobiphenyl	*81.3*		*34.0-125*		*06/17/2021 11:11*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.64		1	06/16/2021 14:15	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 15:09	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.25	T8	1	06/15/2021 11:00	WG1688481

Sample Narrative:

L1365156-10 WG1688481: 8.25 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1190		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	373		0.500	1	06/18/2021 00:26	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:26	WG1687982
Copper	17.0		2.00	1	06/18/2021 00:26	WG1687982
Lead	7.77		0.500	1	06/18/2021 00:26	WG1687982
Nickel	16.0		2.00	1	06/18/2021 00:26	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:26	WG1687982
Silver	ND		1.00	1	06/18/2021 00:26	WG1687982
Zinc	50.1		5.00	1	06/18/2021 00:26	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.205		0.200	1	06/16/2021 14:26	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.70		1.00	5	06/17/2021 23:59	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.71		0.100	1	06/15/2021 23:49	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*92.6*		*77.0-120*		*06/15/2021 23:49*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/18/2021 01:35	WG1690682
Acrylonitrile	ND		0.0125	1	06/18/2021 01:35	WG1690682
Benzene	0.0184		0.00100	1	06/18/2021 01:35	WG1690682
Bromobenzene	ND		0.0125	1	06/18/2021 01:35	WG1690682
Bromodichloromethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Bromoform	ND		0.0250	1	06/18/2021 01:35	WG1690682
Bromomethane	ND		0.0125	1	06/18/2021 01:35	WG1690682
n-Butylbenzene	ND		0.0125	1	06/18/2021 01:35	WG1690682
sec-Butylbenzene	ND		0.0125	1	06/18/2021 01:35	WG1690682
tert-Butylbenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
Carbon tetrachloride	ND		0.00500	1	06/18/2021 01:35	WG1690682
Chlorobenzene	ND		0.00250	1	06/18/2021 01:35	WG1690682
Chlorodibromomethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Chloroethane	ND		0.00500	1	06/18/2021 01:35	WG1690682
Chloroform	ND		0.00250	1	06/18/2021 01:35	WG1690682
Chloromethane	ND		0.0125	1	06/18/2021 01:35	WG1690682
2-Chlorotoluene	ND		0.00250	1	06/18/2021 01:35	WG1690682
4-Chlorotoluene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/18/2021 01:35	WG1690682
1,2-Dibromoethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Dibromomethane	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,2-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,3-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,4-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
Dichlorodifluoromethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,1-Dichloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,2-Dichloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,1-Dichloroethene	ND		0.00250	1	06/18/2021 01:35	WG1690682
cis-1,2-Dichloroethene	ND		0.00250	1	06/18/2021 01:35	WG1690682
trans-1,2-Dichloroethene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,2-Dichloropropane	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,1-Dichloropropene	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,3-Dichloropropane	ND		0.00500	1	06/18/2021 01:35	WG1690682
cis-1,3-Dichloropropene	ND		0.00250	1	06/18/2021 01:35	WG1690682
trans-1,3-Dichloropropene	ND		0.00500	1	06/18/2021 01:35	WG1690682
2,2-Dichloropropane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Di-isopropyl ether	ND		0.00100	1	06/18/2021 01:35	WG1690682
Ethylbenzene	ND		0.00250	1	06/18/2021 01:35	WG1690682
Hexachloro-1,3-butadiene	ND		0.0250	1	06/18/2021 01:35	WG1690682
Isopropylbenzene	ND		0.00250	1	06/18/2021 01:35	WG1690682
p-Isopropyltoluene	ND		0.00500	1	06/18/2021 01:35	WG1690682
2-Butanone (MEK)	ND		0.100	1	06/18/2021 01:35	WG1690682
Methylene Chloride	ND		0.0250	1	06/18/2021 01:35	WG1690682
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/18/2021 01:35	WG1690682
Methyl tert-butyl ether	ND		0.00100	1	06/18/2021 01:35	WG1690682
Naphthalene	ND		0.0125	1	06/18/2021 01:35	WG1690682
n-Propylbenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
Styrene	ND		0.0125	1	06/18/2021 01:35	WG1690682
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Tetrachloroethene	ND		0.00250	1	06/18/2021 01:35	WG1690682
Toluene	0.0155		0.00500	1	06/18/2021 01:35	WG1690682
1,2,3-Trichlorobenzene	ND		0.0125	1	06/18/2021 01:35	WG1690682
1,2,4-Trichlorobenzene	ND		0.0125	1	06/18/2021 01:35	WG1690682
1,1,1-Trichloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
Trichloroethene	ND		0.00100	1	06/18/2021 01:35	WG1690682
Trichlorofluoromethane	ND		0.00250	1	06/18/2021 01:35	WG1690682
1,2,3-Trichloropropane	ND		0.0125	1	06/18/2021 01:35	WG1690682
1,2,4-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,2,3-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
1,3,5-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:35	WG1690682
Vinyl chloride	ND		0.00250	1	06/18/2021 01:35	WG1690682
Xylenes, Total	ND		0.00650	1	06/18/2021 01:35	WG1690682
(S) Toluene-d8	*101*		*75.0-131*		*06/18/2021 01:35*	WG1690682
(S) 4-Bromofluorobenzene	*96.3*		*67.0-138*		*06/18/2021 01:35*	WG1690682
(S) 1,2-Dichloroethane-d4	*105*		*70.0-130*		*06/18/2021 01:35*	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.55		4.00	1	06/14/2021 01:14	WG1687817
C28-C36 Motor Oil Range	22.9		4.00	1	06/14/2021 01:14	WG1687817
(S) o-Terphenyl	*62.9*		*18.0-148*		*06/14/2021 01:14*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 11:28	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 11:28	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 11:28	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:28	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:28	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 11:28	WG1688275
(S) p-Terphenyl-d14	*92.8*		*23.0-120*		*06/17/2021 11:28*	WG1688275
(S) Nitrobenzene-d5	*85.5*		*14.0-149*		*06/17/2021 11:28*	WG1688275
(S) 2-Fluorobiphenyl	*82.9*		*34.0-125*		*06/17/2021 11:28*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.03		1	06/16/2021 14:18	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 15:14	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.61	T8	1	06/16/2021 13:00	WG1688897

Sample Narrative:

L1365156-11 WG1688897: 8.61 at 22.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1440		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	310		0.500	1	06/18/2021 00:29	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:29	WG1687982
Copper	13.3		2.00	1	06/18/2021 00:29	WG1687982
Lead	8.98		0.500	1	06/18/2021 00:29	WG1687982
Nickel	18.1		2.00	1	06/18/2021 00:29	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:29	WG1687982
Silver	ND		1.00	1	06/18/2021 00:29	WG1687982
Zinc	47.4		5.00	1	06/18/2021 00:29	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/16/2021 14:29	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.17		1.00	5	06/18/2021 00:02	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.881		0.100	1	06/16/2021 00:13	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*93.0*		*77.0-120*		*06/16/2021 00:13*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/18/2021 01:54	WG1690682
Acrylonitrile	ND		0.0125	1	06/18/2021 01:54	WG1690682
Benzene	0.0119		0.00100	1	06/18/2021 01:54	WG1690682
Bromobenzene	ND		0.0125	1	06/18/2021 01:54	WG1690682
Bromodichloromethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Bromoform	ND		0.0250	1	06/18/2021 01:54	WG1690682
Bromomethane	ND		0.0125	1	06/18/2021 01:54	WG1690682
n-Butylbenzene	ND		0.0125	1	06/18/2021 01:54	WG1690682
sec-Butylbenzene	ND		0.0125	1	06/18/2021 01:54	WG1690682
tert-Butylbenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
Carbon tetrachloride	ND		0.00500	1	06/18/2021 01:54	WG1690682
Chlorobenzene	ND		0.00250	1	06/18/2021 01:54	WG1690682
Chlorodibromomethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Chloroethane	ND		0.00500	1	06/18/2021 01:54	WG1690682
Chloroform	ND		0.00250	1	06/18/2021 01:54	WG1690682
Chloromethane	ND		0.0125	1	06/18/2021 01:54	WG1690682
2-Chlorotoluene	ND		0.00250	1	06/18/2021 01:54	WG1690682
4-Chlorotoluene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/18/2021 01:54	WG1690682
1,2-Dibromoethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Dibromomethane	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,2-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,3-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,4-Dichlorobenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
Dichlorodifluoromethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,1-Dichloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,2-Dichloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,1-Dichloroethene	ND		0.00250	1	06/18/2021 01:54	WG1690682
cis-1,2-Dichloroethene	ND		0.00250	1	06/18/2021 01:54	WG1690682
trans-1,2-Dichloroethene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,2-Dichloropropane	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,1-Dichloropropene	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,3-Dichloropropane	ND		0.00500	1	06/18/2021 01:54	WG1690682
cis-1,3-Dichloropropene	ND		0.00250	1	06/18/2021 01:54	WG1690682
trans-1,3-Dichloropropene	ND		0.00500	1	06/18/2021 01:54	WG1690682
2,2-Dichloropropane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Di-isopropyl ether	ND		0.00100	1	06/18/2021 01:54	WG1690682
Ethylbenzene	ND		0.00250	1	06/18/2021 01:54	WG1690682
Hexachloro-1,3-butadiene	ND		0.0250	1	06/18/2021 01:54	WG1690682
Isopropylbenzene	ND		0.00250	1	06/18/2021 01:54	WG1690682
p-Isopropyltoluene	ND		0.00500	1	06/18/2021 01:54	WG1690682
2-Butanone (MEK)	ND		0.100	1	06/18/2021 01:54	WG1690682
Methylene Chloride	ND		0.0250	1	06/18/2021 01:54	WG1690682
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/18/2021 01:54	WG1690682
Methyl tert-butyl ether	ND		0.00100	1	06/18/2021 01:54	WG1690682
Naphthalene	ND		0.0125	1	06/18/2021 01:54	WG1690682
n-Propylbenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
Styrene	ND		0.0125	1	06/18/2021 01:54	WG1690682
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Tetrachloroethene	ND		0.00250	1	06/18/2021 01:54	WG1690682
Toluene	0.00600		0.00500	1	06/18/2021 01:54	WG1690682
1,2,3-Trichlorobenzene	ND		0.0125	1	06/18/2021 01:54	WG1690682
1,2,4-Trichlorobenzene	ND		0.0125	1	06/18/2021 01:54	WG1690682
1,1,1-Trichloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
Trichloroethene	ND		0.00100	1	06/18/2021 01:54	WG1690682
Trichlorofluoromethane	ND		0.00250	1	06/18/2021 01:54	WG1690682
1,2,3-Trichloropropane	ND		0.0125	1	06/18/2021 01:54	WG1690682
1,2,4-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,2,3-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
1,3,5-Trimethylbenzene	ND		0.00500	1	06/18/2021 01:54	WG1690682
Vinyl chloride	ND		0.00250	1	06/18/2021 01:54	WG1690682
Xylenes, Total	ND		0.00650	1	06/18/2021 01:54	WG1690682
(S) Toluene-d8	*103*		*75.0-131*		*06/18/2021 01:54*	WG1690682
(S) 4-Bromofluorobenzene	*96.6*		*67.0-138*		*06/18/2021 01:54*	WG1690682
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*06/18/2021 01:54*	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.31		4.00	1	06/18/2021 14:11	WG1687817
C28-C36 Motor Oil Range	16.4		4.00	1	06/18/2021 14:11	WG1687817
(S) o-Terphenyl	*14.3*	J2	*18.0-148*		*06/18/2021 14:11*	WG1687817

Sample Narrative:

L1365156-11 WG1687817: Surrogate failure due to matrix interference

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 11:46	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 11:46	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 11:46	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:46	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 11:46	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 11:46	WG1688275
(S) p-Terphenyl-d14	*94.0*		*23.0-120*		*06/17/2021 11:46*	WG1688275
(S) Nitrobenzene-d5	*87.8*		*14.0-149*		*06/17/2021 11:46*	WG1688275
(S) 2-Fluorobiphenyl	*83.3*		*34.0-125*		*06/17/2021 11:46*	WG1688275

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.65		1	06/16/2021 14:35	WG1687908

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	06/18/2021 15:19	WG1690663

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.96	T8	1	06/16/2021 13:00	WG1688897

Sample Narrative:

L1365156-12 WG1688897: 7.96 at 22C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3460		10.0	1	06/17/2021 08:57	WG1690051

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	319		0.500	1	06/18/2021 00:33	WG1687982
Cadmium	ND		0.500	1	06/18/2021 00:33	WG1687982
Copper	18.7		2.00	1	06/18/2021 00:33	WG1687982
Lead	9.92		0.500	1	06/18/2021 00:33	WG1687982
Nickel	19.9		2.00	1	06/18/2021 00:33	WG1687982
Selenium	ND		2.00	1	06/18/2021 00:33	WG1687982
Silver	ND		1.00	1	06/18/2021 00:33	WG1687982
Zinc	54.0		5.00	1	06/18/2021 00:33	WG1687982

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		0.200	1	06/16/2021 14:32	WG1687907

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.8		1.00	5	06/18/2021 00:05	WG1687980

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.64		0.100	1	06/16/2021 00:37	WG1688999
(S) a,a,a-Trifluorotoluene(FID)	*92.0*		*77.0-120*		*06/16/2021 00:37*	WG1688999

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/18/2021 02:13	WG1690682
Acrylonitrile	ND		0.0125	1	06/18/2021 02:13	WG1690682
Benzene	0.0200		0.00100	1	06/18/2021 02:13	WG1690682
Bromobenzene	ND		0.0125	1	06/18/2021 02:13	WG1690682
Bromodichloromethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Bromoform	ND		0.0250	1	06/18/2021 02:13	WG1690682
Bromomethane	ND		0.0125	1	06/18/2021 02:13	WG1690682
n-Butylbenzene	ND		0.0125	1	06/18/2021 02:13	WG1690682
sec-Butylbenzene	ND		0.0125	1	06/18/2021 02:13	WG1690682
tert-Butylbenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
Carbon tetrachloride	ND		0.00500	1	06/18/2021 02:13	WG1690682
Chlorobenzene	ND		0.00250	1	06/18/2021 02:13	WG1690682
Chlorodibromomethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Chloroethane	ND		0.00500	1	06/18/2021 02:13	WG1690682
Chloroform	ND		0.00250	1	06/18/2021 02:13	WG1690682
Chloromethane	ND		0.0125	1	06/18/2021 02:13	WG1690682
2-Chlorotoluene	ND		0.00250	1	06/18/2021 02:13	WG1690682
4-Chlorotoluene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	06/18/2021 02:13	WG1690682
1,2-Dibromoethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Dibromomethane	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,2-Dichlorobenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,3-Dichlorobenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,4-Dichlorobenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
Dichlorodifluoromethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,1-Dichloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,2-Dichloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,1-Dichloroethene	ND		0.00250	1	06/18/2021 02:13	WG1690682
cis-1,2-Dichloroethene	ND		0.00250	1	06/18/2021 02:13	WG1690682
trans-1,2-Dichloroethene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,2-Dichloropropane	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,1-Dichloropropene	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,3-Dichloropropane	ND		0.00500	1	06/18/2021 02:13	WG1690682
cis-1,3-Dichloropropene	ND		0.00250	1	06/18/2021 02:13	WG1690682
trans-1,3-Dichloropropene	ND		0.00500	1	06/18/2021 02:13	WG1690682
2,2-Dichloropropane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Di-isopropyl ether	ND		0.00100	1	06/18/2021 02:13	WG1690682
Ethylbenzene	ND		0.00250	1	06/18/2021 02:13	WG1690682
Hexachloro-1,3-butadiene	ND		0.0250	1	06/18/2021 02:13	WG1690682
Isopropylbenzene	ND		0.00250	1	06/18/2021 02:13	WG1690682
p-Isopropyltoluene	ND		0.00500	1	06/18/2021 02:13	WG1690682
2-Butanone (MEK)	ND		0.100	1	06/18/2021 02:13	WG1690682
Methylene Chloride	ND		0.0250	1	06/18/2021 02:13	WG1690682
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	06/18/2021 02:13	WG1690682
Methyl tert-butyl ether	ND		0.00100	1	06/18/2021 02:13	WG1690682
Naphthalene	ND		0.0125	1	06/18/2021 02:13	WG1690682
n-Propylbenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
Styrene	ND		0.0125	1	06/18/2021 02:13	WG1690682
1,1,1,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,1,2,2-Tetrachloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Tetrachloroethene	ND		0.00250	1	06/18/2021 02:13	WG1690682
Toluene	0.0130		0.00500	1	06/18/2021 02:13	WG1690682
1,2,3-Trichlorobenzene	ND		0.0125	1	06/18/2021 02:13	WG1690682
1,2,4-Trichlorobenzene	ND		0.0125	1	06/18/2021 02:13	WG1690682
1,1,1-Trichloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
Trichloroethene	ND		0.00100	1	06/18/2021 02:13	WG1690682
Trichlorofluoromethane	ND		0.00250	1	06/18/2021 02:13	WG1690682
1,2,3-Trichloropropane	ND		0.0125	1	06/18/2021 02:13	WG1690682
1,2,4-Trimethylbenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,2,3-Trimethylbenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
1,3,5-Trimethylbenzene	ND		0.00500	1	06/18/2021 02:13	WG1690682
Vinyl chloride	ND		0.00250	1	06/18/2021 02:13	WG1690682
Xylenes, Total	ND		0.00650	1	06/18/2021 02:13	WG1690682
(S) Toluene-d8	*103*		*75.0-131*		*06/18/2021 02:13*	WG1690682
(S) 4-Bromofluorobenzene	*97.1*		*67.0-138*		*06/18/2021 02:13*	WG1690682
(S) 1,2-Dichloroethane-d4	*108*		*70.0-130*		*06/18/2021 02:13*	WG1690682

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	68.6		40.0	10	06/14/2021 05:20	WG1687817
C28-C36 Motor Oil Range	142		40.0	10	06/14/2021 05:20	WG1687817
(S) o-Terphenyl	*62.1*		*18.0-148*		*06/14/2021 05:20*	WG1687817

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Acenaphthene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Acenaphthylene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Benzo(a)anthracene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Benzo(a)pyrene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Benzo(b)fluoranthene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Benzo(g,h,i)perylene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Benzo(k)fluoranthene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Chrysene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Dibenz(a,h)anthracene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Fluoranthene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Fluorene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Naphthalene	ND		0.0200	1	06/17/2021 12:04	WG1688275
Phenanthrene	ND		0.00600	1	06/17/2021 12:04	WG1688275
Pyrene	ND		0.00600	1	06/17/2021 12:04	WG1688275
1-Methylnaphthalene	ND		0.0200	1	06/17/2021 12:04	WG1688275
2-Methylnaphthalene	ND		0.0200	1	06/17/2021 12:04	WG1688275
2-Chloronaphthalene	ND		0.0200	1	06/17/2021 12:04	WG1688275
(S) p-Terphenyl-d14	*89.7*		*23.0-120*		*06/17/2021 12:04*	WG1688275
(S) Nitrobenzene-d5	*87.0*		*14.0-149*		*06/17/2021 12:04*	WG1688275
(S) 2-Fluorobiphenyl	*81.2*		*34.0-125*		*06/17/2021 12:04*	WG1688275

QUALITY CONTROL SUMMARY

L1365156-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3669049-1 06/18/21 09:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1365156-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1365156-03 06/18/21 14:06 • (DUP) R3669049-7 06/18/21 14:11

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	0.000		20

L1365780-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365780-01 06/18/21 15:30 • (DUP) R3669049-8 06/18/21 15:35

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3669049-2 06/18/21 10:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.31	93.1	80.0-120	

L1365156-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-01 06/18/21 14:33 • (MS) R3669049-3 06/18/21 13:37 • (MSD) R3669049-4 06/18/21 13:45

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 %
Hexavalent Chromium	20.0	ND	16.1	17.0	80.6	85.1	1	75.0-125			5.36	20

L1365156-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1365156-01 06/18/21 14:33 • (MS) R3669049-5 06/18/21 13:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	1210	ND	1220	101	50	75.0-125	

L1360662-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1360662-08 06/15/21 11:00 • (DUP) R3667584-2 06/15/21 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.91	7.92	1	0.126		1

Sample Narrative:

OS: 7.91 at 21.5C

DUP: 7.92 at 21.6C

L1361026-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1361026-01 06/15/21 11:00 • (DUP) R3667584-3 06/15/21 11:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.93	6.94	1	0.144		1

Sample Narrative:

OS: 6.93 at 22.3C

DUP: 6.94 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R3667584-1 06/15/21 11:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.07 at 21.6C

L1363275-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1363275-06 06/16/21 13:00 • (DUP) R3668081-2 06/16/21 13:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.90	7.88	1	0.253		1

Sample Narrative:

OS: 7.9 at 22.3C

DUP: 7.88 at 22.3C

Laboratory Control Sample (LCS)

(LCS) R3668081-1 06/16/21 13:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.07 at 21.9C

Method Blank (MB)

(MB) R3668236-1 06/16/21 20:09

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1364672-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1364672-01 06/16/21 20:09 • (DUP) R3668236-3 06/16/21 20:09

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	211	211	1	0.237		20

L1365156-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365156-01 06/16/21 20:09 • (DUP) R3668236-4 06/16/21 20:09

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	489	455	1	7.20		20

Laboratory Control Sample (LCS)

(LCS) R3668236-2 06/16/21 20:09

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	274	102	85.0-115	

QUALITY CONTROL SUMMARY

L1365156-03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3668366-1 06/17/21 08:57

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1356784-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1356784-01 06/17/21 08:57 • (DUP) R3668366-3 06/17/21 08:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	26.7	26.8	1	0.336		20

L1364661-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1364661-01 06/17/21 08:57 • (DUP) R3668366-4 06/17/21 08:57

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	318	321	1	0.939		20

Laboratory Control Sample (LCS)

(LCS) R3668366-2 06/17/21 08:57

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	277	103	85.0-115	

Method Blank (MB)

(MB) R3668827-1 06/17/21 23:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3668827-2 06/17/21 23:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	103	103	80.0-120	
Cadmium	100	99.4	99.4	80.0-120	
Copper	100	100	100	80.0-120	
Lead	100	99.8	99.8	80.0-120	
Nickel	100	103	103	80.0-120	
Selenium	100	99.0	99.0	80.0-120	
Silver	20.0	19.6	97.9	80.0-120	
Zinc	100	101	101	80.0-120	

L1365156-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-05 06/17/21 23:38 • (MS) R3668827-5 06/17/21 23:47 • (MSD) R3668827-6 06/17/21 23:50

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 %
Barium	100	235	382	372	146	137	1	75.0-125	J5	J5	2.59	20
Cadmium	100	ND	102	101	102	101	1	75.0-125			0.858	20
Copper	100	15.6	121	117	105	101	1	75.0-125			3.78	20
Lead	100	6.84	113	112	106	105	1	75.0-125			1.21	20
Nickel	100	19.0	129	127	110	108	1	75.0-125			1.63	20
Selenium	100	ND	101	101	101	101	1	75.0-125			0.392	20
Silver	20.0	ND	20.9	20.7	105	104	1	75.0-125			0.973	20
Zinc	100	53.3	150	148	96.8	94.4	1	75.0-125			1.62	20

Method Blank (MB)

(MB) R3668075-1 06/16/21 12:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3668075-2 06/16/21 12:11 • (LCSD) R3668075-3 06/16/21 12:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.09	1.00	109	100	80.0-120			8.02	20

QUALITY CONTROL SUMMARY

L1365156-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3668816-1 06/17/21 23:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3668816-2 06/17/21 23:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.7	96.7	80.0-120	

L1365156-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-05 06/17/21 23:10 • (MS) R3668816-5 06/17/21 23:20 • (MSD) R3668816-6 06/17/21 23:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	12.9	102	98.9	89.2	86.0	5	75.0-125			3.15	20

Method Blank (MB)

(MB) R3668016-2 06/15/21 17:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0296	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3668016-1 06/15/21 16:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.02	91.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

Method Blank (MB)

(MB) R3668977-2 06/17/21 17:20

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

Method Blank (MB)

(MB) R3668977-2 06/17/21 17:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3668977-1 06/17/21 16:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.649	104	10.0-160	
Acrylonitrile	0.625	0.741	119	45.0-153	
Benzene	0.125	0.128	102	70.0-123	
Bromobenzene	0.125	0.133	106	73.0-121	
Bromodichloromethane	0.125	0.130	104	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3668977-1 06/17/21 16:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.0955	76.4	64.0-132	
Bromomethane	0.125	0.132	106	56.0-147	
n-Butylbenzene	0.125	0.130	104	68.0-135	
sec-Butylbenzene	0.125	0.136	109	74.0-130	
tert-Butylbenzene	0.125	0.131	105	75.0-127	
Carbon tetrachloride	0.125	0.121	96.8	66.0-128	
Chlorobenzene	0.125	0.127	102	76.0-128	
Chlorodibromomethane	0.125	0.109	87.2	74.0-127	
Chloroethane	0.125	0.146	117	61.0-134	
Chloroform	0.125	0.130	104	72.0-123	
Chloromethane	0.125	0.150	120	51.0-138	
2-Chlorotoluene	0.125	0.133	106	75.0-124	
4-Chlorotoluene	0.125	0.130	104	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0932	74.6	59.0-130	
1,2-Dibromoethane	0.125	0.122	97.6	74.0-128	
Dibromomethane	0.125	0.133	106	75.0-122	
1,2-Dichlorobenzene	0.125	0.120	96.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.130	104	76.0-125	
1,4-Dichlorobenzene	0.125	0.121	96.8	77.0-121	
Dichlorodifluoromethane	0.125	0.135	108	43.0-156	
1,1-Dichloroethane	0.125	0.131	105	70.0-127	
1,2-Dichloroethane	0.125	0.141	113	65.0-131	
1,1-Dichloroethene	0.125	0.134	107	65.0-131	
cis-1,2-Dichloroethene	0.125	0.138	110	73.0-125	
trans-1,2-Dichloroethene	0.125	0.130	104	71.0-125	
1,2-Dichloropropane	0.125	0.130	104	74.0-125	
1,1-Dichloropropene	0.125	0.128	102	73.0-125	
1,3-Dichloropropane	0.125	0.132	106	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	95.2	76.0-127	
trans-1,3-Dichloropropene	0.125	0.114	91.2	73.0-127	
2,2-Dichloropropane	0.125	0.133	106	59.0-135	
Di-isopropyl ether	0.125	0.141	113	60.0-136	
Ethylbenzene	0.125	0.119	95.2	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.100	80.0	57.0-150	
Isopropylbenzene	0.125	0.124	99.2	72.0-127	
p-Isopropyltoluene	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	0.625	0.719	115	30.0-160	
Methylene Chloride	0.125	0.137	110	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.735	118	56.0-143	
Methyl tert-butyl ether	0.125	0.128	102	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3668977-1 06/17/21 16:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0839	67.1	59.0-130	
n-Propylbenzene	0.125	0.145	116	74.0-126	
Styrene	0.125	0.115	92.0	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.114	91.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.130	104	68.0-128	
Tetrachloroethene	0.125	0.115	92.0	70.0-136	
Toluene	0.125	0.127	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.111	88.8	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0785	62.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0954	76.3	62.0-137	
1,1,1-Trichloroethane	0.125	0.126	101	69.0-126	
1,1,2-Trichloroethane	0.125	0.125	100	78.0-123	
Trichloroethene	0.125	0.129	103	76.0-126	
Trichlorofluoromethane	0.125	0.116	92.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.119	95.2	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.128	102	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.129	103	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.130	104	73.0-127	
Vinyl chloride	0.125	0.151	121	63.0-134	
Xylenes, Total	0.375	0.359	95.7	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

L1365156-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-08 06/18/21 00:02 • (MS) R3668977-3 06/18/21 00:22 • (MSD) R3668977-4 06/18/21 00:43

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	0.625	ND	0.0854	0.251	13.7	40.2	1	10.0-160		J3	98.5	40
Acrylonitrile	0.625	ND	0.636	0.750	102	120	1	10.0-160			16.5	40
Benzene	0.125	0.0130	0.229	0.220	173	166	1	10.0-149	J5	J5	4.01	37
Bromobenzene	0.125	ND	0.119	0.104	95.2	83.2	1	10.0-156			13.5	38
Bromodichloromethane	0.125	ND	0.111	0.103	88.8	82.4	1	10.0-143			7.48	37
Bromoform	0.125	ND	0.0896	0.0843	71.7	67.4	1	10.0-146			6.10	36
Bromomethane	0.125	ND	0.0742	0.0635	59.4	50.8	1	10.0-149			15.5	38
n-Butylbenzene	0.125	ND	0.127	0.107	102	85.6	1	10.0-160			17.1	40
sec-Butylbenzene	0.125	ND	0.120	0.100	96.0	80.0	1	10.0-159			18.2	39
tert-Butylbenzene	0.125	ND	0.109	0.0944	87.2	75.5	1	10.0-156			14.4	39

QUALITY CONTROL SUMMARY

L1365156-01,02,03,04,05,06,07,08

L1365156-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-08 06/18/21 00:02 • (MS) R3668977-3 06/18/21 00:22 • (MSD) R3668977-4 06/18/21 00:43

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 %
Carbon tetrachloride	0.125	ND	0.0874	0.0741	69.9	59.3	1	10.0-145			16.5	37
Chlorobenzene	0.125	ND	0.111	0.0975	88.8	78.0	1	10.0-152			12.9	39
Chlorodibromomethane	0.125	ND	0.0957	0.0885	76.6	70.8	1	10.0-146			7.82	37
Chloroethane	0.125	ND	0.0553	0.0468	44.2	37.4	1	10.0-146			16.7	40
Chloroform	0.125	ND	0.125	0.115	100	92.0	1	10.0-146			8.33	37
Chloromethane	0.125	ND	0.123	0.103	98.4	82.4	1	10.0-159			17.7	37
2-Chlorotoluene	0.125	ND	0.117	0.0992	93.6	79.4	1	10.0-159			16.5	38
4-Chlorotoluene	0.125	ND	0.106	0.0862	84.8	69.0	1	10.0-155			20.6	39
1,2-Dibromo-3-Chloropropane	0.125	ND	0.0901	0.0818	72.1	65.4	1	10.0-151			9.66	39
1,2-Dibromoethane	0.125	ND	0.113	0.104	90.4	83.2	1	10.0-148			8.29	34
Dibromomethane	0.125	ND	0.128	0.123	102	98.4	1	10.0-147			3.98	35
1,2-Dichlorobenzene	0.125	ND	0.119	0.105	95.2	84.0	1	10.0-155			12.5	37
1,3-Dichlorobenzene	0.125	ND	0.119	0.106	95.2	84.8	1	10.0-153			11.6	38
1,4-Dichlorobenzene	0.125	ND	0.115	0.0983	92.0	78.6	1	10.0-151			15.7	38
Dichlorodifluoromethane	0.125	ND	0.112	0.0861	89.6	68.9	1	10.0-160			26.1	35
1,1-Dichloroethane	0.125	ND	0.108	0.0994	86.4	79.5	1	10.0-147			8.29	37
1,2-Dichloroethane	0.125	ND	0.130	0.124	104	99.2	1	10.0-148			4.72	35
1,1-Dichloroethene	0.125	ND	0.107	0.0927	85.6	74.2	1	10.0-155			14.3	37
cis-1,2-Dichloroethene	0.125	ND	0.126	0.106	101	84.8	1	10.0-149			17.2	37
trans-1,2-Dichloroethene	0.125	ND	0.108	0.0974	86.4	77.9	1	10.0-150			10.3	37
1,2-Dichloropropane	0.125	ND	0.118	0.105	94.4	84.0	1	10.0-148			11.7	37
1,1-Dichloropropene	0.125	ND	0.110	0.0935	88.0	74.8	1	10.0-153			16.2	35
1,3-Dichloropropane	0.125	ND	0.126	0.111	101	88.8	1	10.0-154			12.7	35
cis-1,3-Dichloropropene	0.125	ND	0.109	0.0976	87.2	78.1	1	10.0-151			11.0	37
trans-1,3-Dichloropropene	0.125	ND	0.105	0.0935	84.0	74.8	1	10.0-148			11.6	37
2,2-Dichloropropane	0.125	ND	0.0670	0.0637	53.6	51.0	1	10.0-138			5.05	36
Di-isopropyl ether	0.125	ND	0.126	0.120	101	96.0	1	10.0-147			4.88	36
Ethylbenzene	0.125	ND	0.102	0.0890	81.6	71.2	1	10.0-160			13.6	38
Hexachloro-1,3-butadiene	0.125	ND	0.102	0.0934	81.6	74.7	1	10.0-160			8.80	40
Isopropylbenzene	0.125	ND	0.104	0.0920	83.2	73.6	1	10.0-155			12.2	38
p-Isopropyltoluene	0.125	ND	0.111	0.0979	88.8	78.3	1	10.0-160			12.5	40
2-Butanone (MEK)	0.625	ND	0.593	0.652	94.9	104	1	10.0-160			9.48	40
Methylene Chloride	0.125	ND	0.126	0.116	101	92.8	1	10.0-141			8.26	37
4-Methyl-2-pentanone (MIBK)	0.625	ND	0.787	0.714	124	112	1	10.0-160			9.73	35
Methyl tert-butyl ether	0.125	ND	0.117	0.112	93.6	89.6	1	11.0-147			4.37	35
Naphthalene	0.125	ND	0.107	0.111	85.6	88.8	1	10.0-160			3.67	36
n-Propylbenzene	0.125	ND	0.124	0.101	99.2	80.8	1	10.0-158			20.4	38
Styrene	0.125	ND	0.103	0.0912	82.4	73.0	1	10.0-160			12.2	40
1,1,1,2-Tetrachloroethane	0.125	ND	0.0986	0.0907	78.9	72.6	1	10.0-149			8.35	39
1,1,2,2-Tetrachloroethane	0.125	ND	0.103	0.0625	82.4	50.0	1	10.0-160		J3	48.9	35

L1365156-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-08 06/18/21 00:02 • (MS) R3668977-3 06/18/21 00:22 • (MSD) R3668977-4 06/18/21 00:43

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 %
Tetrachloroethene	0.125	ND	0.0963	0.0789	77.0	63.1	1	10.0-156			19.9	39
Toluene	0.125	0.0284	0.281	0.260	202	185	1	10.0-156	J5	J5	7.76	38
1,1,2-Trichlorotrifluoroethane	0.125	ND	0.0434	0.0558	34.7	44.6	1	10.0-160			25.0	36
1,2,3-Trichlorobenzene	0.125	ND	0.102	0.112	81.6	89.6	1	10.0-160			9.35	40
1,2,4-Trichlorobenzene	0.125	ND	0.113	0.117	90.4	93.6	1	10.0-160			3.48	40
1,1,1-Trichloroethane	0.125	ND	0.0925	0.0819	74.0	65.5	1	10.0-144			12.2	35
1,1,2-Trichloroethane	0.125	0.0149	0.182	0.168	134	122	1	10.0-160			8.00	35
Trichloroethene	0.125	ND	0.138	0.145	110	116	1	10.0-156			4.95	38
Trichlorofluoromethane	0.125	ND	0.0374	0.0289	29.9	23.1	1	10.0-160			25.6	40
1,2,3-Trichloropropane	0.125	ND	0.131	0.111	105	88.8	1	10.0-156			16.5	35
1,2,3-Trimethylbenzene	0.125	ND	0.117	0.107	93.6	85.6	1	10.0-160			8.93	36
1,2,4-Trimethylbenzene	0.125	ND	0.114	0.0987	91.2	79.0	1	10.0-160			14.4	36
1,3,5-Trimethylbenzene	0.125	ND	0.108	0.0918	86.4	73.4	1	10.0-160			16.2	38
Vinyl chloride	0.125	ND	0.111	0.0976	88.8	78.1	1	10.0-160			12.8	37
Xylenes, Total	0.375	ND	0.307	0.269	81.9	71.7	1	10.0-160			13.2	38
(S) Toluene-d8					*98.6*	*97.5*		*75.0-131*				
(S) 4-Bromofluorobenzene					*95.3*	*96.2*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*98.9*	*107*		*70.0-130*				

Method Blank (MB)

(MB) R3668978-2 06/17/21 05:00

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

Method Blank (MB)

(MB) R3668978-2 06/17/21 05:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3668978-1 06/17/21 04:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.583	93.3	10.0-160	
Acrylonitrile	0.625	0.674	108	45.0-153	
Benzene	0.125	0.128	102	70.0-123	
Bromobenzene	0.125	0.137	110	73.0-121	
Bromodichloromethane	0.125	0.122	97.6	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3668978-1 06/17/21 04:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.0953	76.2	64.0-132	
Bromomethane	0.125	0.113	90.4	56.0-147	
n-Butylbenzene	0.125	0.132	106	68.0-135	
sec-Butylbenzene	0.125	0.142	114	74.0-130	
tert-Butylbenzene	0.125	0.134	107	75.0-127	
Carbon tetrachloride	0.125	0.118	94.4	66.0-128	
Chlorobenzene	0.125	0.126	101	76.0-128	
Chlorodibromomethane	0.125	0.108	86.4	74.0-127	
Chloroethane	0.125	0.135	108	61.0-134	
Chloroform	0.125	0.134	107	72.0-123	
Chloromethane	0.125	0.139	111	51.0-138	
2-Chlorotoluene	0.125	0.134	107	75.0-124	
4-Chlorotoluene	0.125	0.115	92.0	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0901	72.1	59.0-130	
1,2-Dibromoethane	0.125	0.118	94.4	74.0-128	
Dibromomethane	0.125	0.140	112	75.0-122	
1,2-Dichlorobenzene	0.125	0.118	94.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.132	106	76.0-125	
1,4-Dichlorobenzene	0.125	0.122	97.6	77.0-121	
Dichlorodifluoromethane	0.125	0.124	99.2	43.0-156	
1,1-Dichloroethane	0.125	0.130	104	70.0-127	
1,2-Dichloroethane	0.125	0.136	109	65.0-131	
1,1-Dichloroethene	0.125	0.135	108	65.0-131	
cis-1,2-Dichloroethene	0.125	0.133	106	73.0-125	
trans-1,2-Dichloroethene	0.125	0.129	103	71.0-125	
1,2-Dichloropropane	0.125	0.128	102	74.0-125	
1,1-Dichloropropene	0.125	0.130	104	73.0-125	
1,3-Dichloropropane	0.125	0.131	105	80.0-125	
cis-1,3-Dichloropropene	0.125	0.114	91.2	76.0-127	
trans-1,3-Dichloropropene	0.125	0.113	90.4	73.0-127	
2,2-Dichloropropane	0.125	0.112	89.6	59.0-135	
Di-isopropyl ether	0.125	0.139	111	60.0-136	
Ethylbenzene	0.125	0.122	97.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.101	80.8	57.0-150	
Isopropylbenzene	0.125	0.123	98.4	72.0-127	
p-Isopropyltoluene	0.125	0.127	102	72.0-133	
2-Butanone (MEK)	0.625	0.623	99.7	30.0-160	
Methylene Chloride	0.125	0.133	106	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.706	113	56.0-143	
Methyl tert-butyl ether	0.125	0.123	98.4	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3668978-1 06/17/21 04:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0864	69.1	59.0-130	
n-Propylbenzene	0.125	0.140	112	74.0-126	
Styrene	0.125	0.111	88.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.109	87.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.118	94.4	68.0-128	
Tetrachloroethene	0.125	0.115	92.0	70.0-136	
Toluene	0.125	0.128	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.115	92.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0900	72.0	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0996	79.7	62.0-137	
1,1,1-Trichloroethane	0.125	0.126	101	69.0-126	
1,1,2-Trichloroethane	0.125	0.124	99.2	78.0-123	
Trichloroethene	0.125	0.136	109	76.0-126	
Trichlorofluoromethane	0.125	0.0973	77.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.121	96.8	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.127	102	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.129	103	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.132	106	73.0-127	
Vinyl chloride	0.125	0.129	103	63.0-134	
Xylenes, Total	0.375	0.356	94.9	72.0-127	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*95.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*104*	*70.0-130*	

Method Blank (MB)

(MB) R3669165-3 06/17/21 20:51

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

Method Blank (MB)

(MB) R3669165-3 06/17/21 20:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	0.117		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

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

(LCS) R3669165-1 06/17/21 19:35 • (LCSD) R3669165-2 06/17/21 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.713	0.655	114	105	10.0-160			8.48	31
Acrylonitrile	0.625	0.681	0.619	109	99.0	45.0-153			9.54	22
Benzene	0.125	0.124	0.125	99.2	100	70.0-123			0.803	20
Bromobenzene	0.125	0.127	0.130	102	104	73.0-121			2.33	20
Bromodichloromethane	0.125	0.114	0.117	91.2	93.6	73.0-121			2.60	20

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

(LCS) R3669165-1 06/17/21 19:35 • (LCSD) R3669165-2 06/17/21 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.127	0.126	102	101	64.0-132			0.791	20
Bromomethane	0.125	0.111	0.120	88.8	96.0	56.0-147			7.79	20
n-Butylbenzene	0.125	0.113	0.118	90.4	94.4	68.0-135			4.33	20
sec-Butylbenzene	0.125	0.118	0.123	94.4	98.4	74.0-130			4.15	20
tert-Butylbenzene	0.125	0.113	0.118	90.4	94.4	75.0-127			4.33	20
Carbon tetrachloride	0.125	0.121	0.119	96.8	95.2	66.0-128			1.67	20
Chlorobenzene	0.125	0.115	0.117	92.0	93.6	76.0-128			1.72	20
Chlorodibromomethane	0.125	0.120	0.125	96.0	100	74.0-127			4.08	20
Chloroethane	0.125	0.103	0.101	82.4	80.8	61.0-134			1.96	20
Chloroform	0.125	0.120	0.122	96.0	97.6	72.0-123			1.65	20
Chloromethane	0.125	0.0928	0.0955	74.2	76.4	51.0-138			2.87	20
2-Chlorotoluene	0.125	0.126	0.128	101	102	75.0-124			1.57	20
4-Chlorotoluene	0.125	0.121	0.123	96.8	98.4	75.0-124			1.64	20
1,2-Dibromo-3-Chloropropane	0.125	0.126	0.126	101	101	59.0-130			0.000	20
1,2-Dibromoethane	0.125	0.119	0.124	95.2	99.2	74.0-128			4.12	20
Dibromomethane	0.125	0.136	0.133	109	106	75.0-122			2.23	20
1,2-Dichlorobenzene	0.125	0.123	0.129	98.4	103	76.0-124			4.76	20
1,3-Dichlorobenzene	0.125	0.119	0.121	95.2	96.8	76.0-125			1.67	20
1,4-Dichlorobenzene	0.125	0.120	0.118	96.0	94.4	77.0-121			1.68	20
Dichlorodifluoromethane	0.125	0.135	0.139	108	111	43.0-156			2.92	20
1,1-Dichloroethane	0.125	0.117	0.117	93.6	93.6	70.0-127			0.000	20
1,2-Dichloroethane	0.125	0.118	0.119	94.4	95.2	65.0-131			0.844	20
1,1-Dichloroethene	0.125	0.107	0.108	85.6	86.4	65.0-131			0.930	20
cis-1,2-Dichloroethene	0.125	0.134	0.123	107	98.4	73.0-125			8.56	20
trans-1,2-Dichloroethene	0.125	0.120	0.119	96.0	95.2	71.0-125			0.837	20
1,2-Dichloropropane	0.125	0.117	0.117	93.6	93.6	74.0-125			0.000	20
1,1-Dichloropropene	0.125	0.116	0.117	92.8	93.6	73.0-125			0.858	20
1,3-Dichloropropane	0.125	0.122	0.132	97.6	106	80.0-125			7.87	20
cis-1,3-Dichloropropene	0.125	0.120	0.122	96.0	97.6	76.0-127			1.65	20
trans-1,3-Dichloropropene	0.125	0.122	0.128	97.6	102	73.0-127			4.80	20
2,2-Dichloropropane	0.125	0.150	0.154	120	123	59.0-135			2.63	20
Di-isopropyl ether	0.125	0.103	0.0997	82.4	79.8	60.0-136			3.26	20
Ethylbenzene	0.125	0.117	0.119	93.6	95.2	74.0-126			1.69	20
Hexachloro-1,3-butadiene	0.125	0.114	0.121	91.2	96.8	57.0-150			5.96	20
Isopropylbenzene	0.125	0.116	0.117	92.8	93.6	72.0-127			0.858	20
p-Isopropyltoluene	0.125	0.115	0.121	92.0	96.8	72.0-133			5.08	20
2-Butanone (MEK)	0.625	0.596	0.560	95.4	89.6	30.0-160			6.23	24
Methylene Chloride	0.125	0.122	0.125	97.6	100	68.0-123			2.43	20
4-Methyl-2-pentanone (MIBK)	0.625	0.550	0.553	88.0	88.5	56.0-143			0.544	20
Methyl tert-butyl ether	0.125	0.156	0.141	125	113	66.0-132			10.1	20

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

(LCS) R3669165-1 06/17/21 19:35 • (LCSD) R3669165-2 06/17/21 19:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.0986	0.0999	78.9	79.9	59.0-130			1.31	20
n-Propylbenzene	0.125	0.115	0.119	92.0	95.2	74.0-126			3.42	20
Styrene	0.125	0.110	0.116	88.0	92.8	72.0-127			5.31	20
1,1,1,2-Tetrachloroethane	0.125	0.126	0.125	101	100	74.0-129			0.797	20
1,1,2,2-Tetrachloroethane	0.125	0.132	0.133	106	106	68.0-128			0.755	20
Tetrachloroethene	0.125	0.118	0.122	94.4	97.6	70.0-136			3.33	20
Toluene	0.125	0.119	0.122	95.2	97.6	75.0-121			2.49	20
1,1,2-Trichlorotrifluoroethane	0.125	0.129	0.134	103	107	61.0-139			3.80	20
1,2,3-Trichlorobenzene	0.125	0.105	0.108	84.0	86.4	59.0-139			2.82	20
1,2,4-Trichlorobenzene	0.125	0.116	0.118	92.8	94.4	62.0-137			1.71	20
1,1,1-Trichloroethane	0.125	0.116	0.113	92.8	90.4	69.0-126			2.62	20
1,1,2-Trichloroethane	0.125	0.123	0.128	98.4	102	78.0-123			3.98	20
Trichloroethene	0.125	0.109	0.111	87.2	88.8	76.0-126			1.82	20
Trichlorofluoromethane	0.125	0.120	0.129	96.0	103	61.0-142			7.23	20
1,2,3-Trichloropropane	0.125	0.143	0.143	114	114	67.0-129			0.000	20
1,2,3-Trimethylbenzene	0.125	0.117	0.120	93.6	96.0	74.0-124			2.53	20
1,2,4-Trimethylbenzene	0.125	0.120	0.121	96.0	96.8	70.0-126			0.830	20
1,3,5-Trimethylbenzene	0.125	0.120	0.123	96.0	98.4	73.0-127			2.47	20
Vinyl chloride	0.125	0.102	0.100	81.6	80.0	63.0-134			1.98	20
Xylenes, Total	0.375	0.343	0.352	91.5	93.9	72.0-127			2.59	20
(S) Toluene-d8				*103*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*99.3*	*99.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*110*	*108*	*70.0-130*				

L1364665-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364665-02 06/17/21 22:26 • (MS) R3669165-4 06/18/21 03:30 • (MSD) R3669165-5 06/18/21 03:49

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	1.03	ND	0.613	0.618	61.3	61.8	1.6	10.0-160			0.812	40
Acrylonitrile	1.03	ND	0.850	0.809	85.0	80.9	1.6	10.0-160			4.94	40
Benzene	0.207	ND	0.143	0.0908	71.5	45.4	1.6	10.0-149		J3	44.7	37
Bromobenzene	0.207	ND	0.179	0.131	89.5	65.5	1.6	10.0-156			31.0	38
Bromodichloromethane	0.207	ND	0.149	0.105	74.5	52.5	1.6	10.0-143			34.6	37
Bromoform	0.207	ND	0.185	0.150	92.5	75.0	1.6	10.0-146			20.9	36
Bromomethane	0.207	ND	0.0770	0.0450	38.5	22.5	1.6	10.0-149		J3	52.5	38
n-Butylbenzene	0.207	ND	0.163	0.104	81.5	52.0	1.6	10.0-160		J3	44.2	40
sec-Butylbenzene	0.207	ND	0.165	0.106	82.5	53.0	1.6	10.0-159		J3	43.5	39
tert-Butylbenzene	0.207	ND	0.159	0.100	79.5	50.0	1.6	10.0-156		J3	45.6	39

QUALITY CONTROL SUMMARY

L1365156-10,11,12

L1364665-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364665-02 06/17/21 22:26 • (MS) R3669165-4 06/18/21 03:30 • (MSD) R3669165-5 06/18/21 03:49

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 %
Carbon tetrachloride	0.207	ND	0.139	0.0751	69.5	37.5	1.6	10.0-145		J3	59.7	37
Chlorobenzene	0.207	ND	0.145	0.0983	72.5	49.2	1.6	10.0-152			38.4	39
Chlorodibromomethane	0.207	ND	0.170	0.135	85.0	67.5	1.6	10.0-146			23.0	37
Chloroethane	0.207	ND	0.0501	0.0324	25.0	16.2	1.6	10.0-146		J3	42.9	40
Chloroform	0.207	ND	0.144	0.0948	72.0	47.4	1.6	10.0-146		J3	41.2	37
Chloromethane	0.207	ND	0.0760	0.0581	38.0	29.0	1.6	10.0-159			26.7	37
2-Chlorotoluene	0.207	ND	0.173	0.118	86.5	59.0	1.6	10.0-159			37.8	38
4-Chlorotoluene	0.207	ND	0.166	0.108	83.0	54.0	1.6	10.0-155		J3	42.3	39
1,2-Dibromo-3-Chloropropane	0.207	ND	0.187	0.172	93.5	86.0	1.6	10.0-151			8.36	39
1,2-Dibromoethane	0.207	ND	0.179	0.152	89.5	76.0	1.6	10.0-148			16.3	34
Dibromomethane	0.207	ND	0.179	0.146	89.5	73.0	1.6	10.0-147			20.3	35
1,2-Dichlorobenzene	0.207	ND	0.183	0.134	91.5	67.0	1.6	10.0-155			30.9	37
1,3-Dichlorobenzene	0.207	ND	0.164	0.114	82.0	57.0	1.6	10.0-153			36.0	38
1,4-Dichlorobenzene	0.207	ND	0.171	0.121	85.5	60.5	1.6	10.0-151			34.2	38
Dichlorodifluoromethane	0.207	ND	0.150	0.0888	75.0	44.4	1.6	10.0-160		J3	51.3	35
1,1-Dichloroethane	0.207	ND	0.131	0.0842	65.5	42.1	1.6	10.0-147		J3	43.5	37
1,2-Dichloroethane	0.207	ND	0.157	0.123	78.5	61.5	1.6	10.0-148			24.3	35
1,1-Dichloroethene	0.207	ND	0.119	0.0648	59.5	32.4	1.6	10.0-155		J3	59.0	37
cis-1,2-Dichloroethene	0.207	ND	0.142	0.0955	71.0	47.8	1.6	10.0-149		J3	39.2	37
trans-1,2-Dichloroethene	0.207	ND	0.125	0.0760	62.5	38.0	1.6	10.0-150		J3	48.8	37
1,2-Dichloropropane	0.207	ND	0.149	0.107	74.5	53.5	1.6	10.0-148			32.8	37
1,1-Dichloropropene	0.207	ND	0.127	0.0692	63.5	34.6	1.6	10.0-153		J3	58.9	35
1,3-Dichloropropane	0.207	ND	0.189	0.154	94.5	77.0	1.6	10.0-154			20.4	35
cis-1,3-Dichloropropene	0.207	ND	0.156	0.114	78.0	57.0	1.6	10.0-151			31.1	37
trans-1,3-Dichloropropene	0.207	ND	0.178	0.139	89.0	69.5	1.6	10.0-148			24.6	37
2,2-Dichloropropane	0.207	ND	0.121	0.0800	60.5	40.0	1.6	10.0-138		J3	40.8	36
Di-isopropyl ether	0.207	ND	0.132	0.0993	66.0	49.6	1.6	10.0-147			28.3	36
Ethylbenzene	0.207	ND	0.146	0.0913	73.0	45.7	1.6	10.0-160		J3	46.1	38
Hexachloro-1,3-butadiene	0.207	ND	0.202	0.134	101	67.0	1.6	10.0-160		J3	40.5	40
Isopropylbenzene	0.207	ND	0.140	0.0890	70.0	44.5	1.6	10.0-155		J3	44.5	38
p-Isopropyltoluene	0.207	ND	0.160	0.102	80.0	51.0	1.6	10.0-160		J3	44.3	40
2-Butanone (MEK)	1.03	0.157	0.858	0.718	70.1	56.1	1.6	10.0-160			17.8	40
Methylene Chloride	0.207	ND	0.154	0.104	77.0	52.0	1.6	10.0-141		J3	38.8	37
4-Methyl-2-pentanone (MIBK)	1.03	ND	0.824	0.767	82.4	76.7	1.6	10.0-160			7.17	35
Methyl tert-butyl ether	0.207	ND	0.177	0.154	88.5	77.0	1.6	11.0-147			13.9	35
Naphthalene	0.207	ND	0.195	0.167	97.5	83.5	1.6	10.0-160			15.5	36
n-Propylbenzene	0.207	ND	0.152	0.0974	76.0	48.7	1.6	10.0-158		J3	43.8	38
Styrene	0.207	ND	0.147	0.0990	73.5	49.5	1.6	10.0-160			39.0	40
1,1,1,2-Tetrachloroethane	0.207	ND	0.166	0.122	83.0	61.0	1.6	10.0-149			30.6	39
1,1,2,2-Tetrachloroethane	0.207	ND	0.209	0.177	104	88.5	1.6	10.0-160			16.6	35

L1364665-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1364665-02 06/17/21 22:26 • (MS) R3669165-4 06/18/21 03:30 • (MSD) R3669165-5 06/18/21 03:49

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 %
Tetrachloroethene	0.207	ND	0.140	0.0816	70.0	40.8	1.6	10.0-156		J3	52.7	39
Toluene	0.207	ND	0.147	0.0920	73.5	46.0	1.6	10.0-156		J3	46.0	38
1,1,2-Trichlorotrifluoroethane	0.207	ND	0.153	0.0863	76.5	43.1	1.6	10.0-160		J3	55.7	36
1,2,3-Trichlorobenzene	0.207	ND	0.200	0.166	100	83.0	1.6	10.0-160			18.6	40
1,2,4-Trichlorobenzene	0.207	ND	0.194	0.150	97.0	75.0	1.6	10.0-160			25.6	40
1,1,1-Trichloroethane	0.207	ND	0.136	0.0770	68.0	38.5	1.6	10.0-144		J3	55.4	35
1,1,2-Trichloroethane	0.207	ND	0.181	0.148	90.5	74.0	1.6	10.0-160			20.1	35
Trichloroethene	0.207	ND	0.133	0.0832	66.5	41.6	1.6	10.0-156		J3	46.1	38
Trichlorofluoromethane	0.207	ND	0.0936	0.0560	46.8	28.0	1.6	10.0-160		J3	50.3	40
1,2,3-Trichloropropane	0.207	ND	0.232	0.187	116	93.5	1.6	10.0-156			21.5	35
1,2,3-Trimethylbenzene	0.207	ND	0.158	0.116	79.0	58.0	1.6	10.0-160			30.7	36
1,2,4-Trimethylbenzene	0.207	ND	0.158	0.107	79.0	53.5	1.6	10.0-160		J3	38.5	36
1,3,5-Trimethylbenzene	0.207	ND	0.162	0.104	81.0	52.0	1.6	10.0-160		J3	43.6	38
Vinyl chloride	0.207	ND	0.107	0.0571	53.5	28.5	1.6	10.0-160		J3	60.8	37
Xylenes, Total	0.620	ND	0.430	0.273	71.7	45.5	1.6	10.0-160		J3	44.7	38
(S) Toluene-d8					*103*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*96.4*	*95.9*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*105*	*105*		*70.0-130*				

Method Blank (MB)

(MB) R3669448-3 06/18/21 11:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.3*			*70.0-130*

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

(LCS) R3669448-1 06/18/21 09:33 • (LCSD) R3669448-2 06/18/21 09:52

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 %
Benzene	0.125	0.112	0.117	89.6	93.6	70.0-123			4.37	20
Toluene	0.125	0.113	0.119	90.4	95.2	75.0-121			5.17	20
Xylenes, Total	0.375	0.345	0.354	92.0	94.4	72.0-127			2.58	20
(S) Toluene-d8				*101*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.3*	*98.7*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*94.3*	*95.0*	*70.0-130*				

QUALITY CONTROL SUMMARY

L1365156-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3667236-1 06/13/21 22:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*68.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3667236-2 06/13/21 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.0	92.0	50.0-150	
(S) o-Terphenyl			*95.6*	*18.0-148*	

L1365138-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365138-22 06/13/21 23:29 • (MS) R3667236-3 06/13/21 23:43 • (MSD) R3667236-4 06/13/21 23:56

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 %
C10-C28 Diesel Range	47.4	ND	36.9	38.8	77.8	81.2	1	50.0-150			5.02	20
(S) o-Terphenyl					*75.2*	*79.5*		*18.0-148*				

Method Blank (MB)

(MB) R3668703-2 06/17/21 07:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*99.6*			*14.0-149*
(S) 2-Fluorobiphenyl	*101*			*34.0-125*
(S) p-Terphenyl-d14	*117*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3668703-1 06/17/21 07:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0651	81.4	50.0-126	
Acenaphthene	0.0800	0.0721	90.1	50.0-120	
Acenaphthylene	0.0800	0.0739	92.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0713	89.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0644	80.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0719	89.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0735	91.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0729	91.1	49.0-125	
Chrysene	0.0800	0.0774	96.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0682	85.3	47.0-125	
Fluoranthene	0.0800	0.0760	95.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3668703-1 06/17/21 07:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0744	93.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0738	92.3	46.0-125	
Naphthalene	0.0800	0.0710	88.8	50.0-120	
Phenanthrene	0.0800	0.0650	81.3	47.0-120	
Pyrene	0.0800	0.0724	90.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0804	101	51.0-121	
2-Methylnaphthalene	0.0800	0.0739	92.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0685	85.6	50.0-120	
(S) Nitrobenzene-d5			*106*	*14.0-149*	
(S) 2-Fluorobiphenyl			*102*	*34.0-125*	
(S) p-Terphenyl-d14			*115*	*23.0-120*	

L1365156-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365156-04 06/17/21 09:06 • (MS) R3668703-3 06/17/21 09:23 • (MSD) R3668703-4 06/17/21 09:41

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 %
Anthracene	0.0756	ND	0.0521	0.0579	68.9	76.6	1	10.0-145			10.5	30
Acenaphthene	0.0756	ND	0.0563	0.0630	74.5	83.3	1	14.0-127			11.2	27
Acenaphthylene	0.0756	ND	0.0567	0.0650	75.0	86.0	1	21.0-124			13.6	25
Benzo(a)anthracene	0.0756	ND	0.0603	0.0669	79.8	88.5	1	10.0-139			10.4	30
Benzo(a)pyrene	0.0756	ND	0.0558	0.0623	73.8	82.4	1	10.0-141			11.0	31
Benzo(b)fluoranthene	0.0756	ND	0.0553	0.0615	73.1	81.3	1	10.0-140			10.6	36
Benzo(g,h,i)perylene	0.0756	ND	0.0537	0.0584	71.0	77.2	1	10.0-140			8.39	33
Benzo(k)fluoranthene	0.0756	ND	0.0547	0.0616	72.4	81.5	1	10.0-137			11.9	31
Chrysene	0.0756	ND	0.0618	0.0671	81.7	88.8	1	10.0-145			8.22	30
Dibenz(a,h)anthracene	0.0756	ND	0.0514	0.0559	68.0	73.9	1	10.0-132			8.39	31
Fluoranthene	0.0756	ND	0.0624	0.0684	82.5	90.5	1	10.0-153			9.17	33
Fluorene	0.0756	ND	0.0608	0.0660	80.4	87.3	1	11.0-130			8.20	29
Indeno(1,2,3-cd)pyrene	0.0756	ND	0.0533	0.0593	70.5	78.4	1	10.0-137			10.7	32
Naphthalene	0.0756	ND	0.0612	0.0673	81.0	89.0	1	10.0-135			9.49	27
Phenanthrene	0.0756	ND	0.0523	0.0569	69.2	75.3	1	10.0-144			8.42	31
Pyrene	0.0756	ND	0.0556	0.0616	73.5	81.5	1	10.0-148			10.2	35
1-Methylnaphthalene	0.0756	ND	0.0636	0.0724	84.1	95.8	1	10.0-142			12.9	28
2-Methylnaphthalene	0.0756	ND	0.0607	0.0685	80.3	90.6	1	10.0-137			12.1	28
2-Chloronaphthalene	0.0756	ND	0.0545	0.0606	72.1	80.2	1	29.0-120			10.6	24
(S) Nitrobenzene-d5					*94.7*	*100*		*14.0-149*				
(S) 2-Fluorobiphenyl					*86.7*	*93.3*		*34.0-125*				
(S) p-Terphenyl-d14					*94.9*	*102*		*23.0-120*				

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.

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:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute, CO~~ Debeque CO

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1365156

J008

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR						Rem./Contaminant	Sample # (lab only)
20210610 - Texaco Fee - 62-14 - SB3 (5-7)	Grab	SS	5-7	6/10/21	0835	2	X	X	X	X	X							-01
20210610 - Texaco Fee - 62-14 - SB3 (10-12)			10-12		0850	2	X	X	X	X	X							-02
20210610 - Texaco Fee - 62-14 - SB3 (15-17)			15-17		0900	2	X	X	X	X	X							-03
20210610 - Texaco Fee - 62-14 - SB3 (20-22)			20-22		0920	2	X	X	X	X	X							-04
20210610 - Texaco Fee - 62-14 - SB3 (25-27)			25-27		0955	2	X	X	X	X	X							-05
20210610 - Texaco Fee - 62-14 - SB3 (30-32)			30-32		1020	2	X	X	X	X	X							-06
20210610 - Texaco Fee - 62-14 - SB3 (35-37)			35-37		1050	2	X	X	X	X	X							-07
20210610 - Texaco Fee - 62-14 - SB3 (40-42)			40-42		1120	2	X	X	X	X	X							-08
20210610 - Texaco Fee - 62-14 - SB3 (45-47)			45-47		1205	2	X	X	X	X	X							-09
20210610 - Texaco Fee - 62-14 - SB3 (50-52)			50-52		1255	2	X	X	X	X	X							-10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6/10/21	1645	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6/10/21	1730	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			T. Robertson

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: NA °C Bottles Received: 23
3.6+1=3.1

Date: 6/11/21 Time: 930

Hold #

Condition: (lab use only)

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

0883 0083 8772 T3=0

Company Name/Address:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fed 62-14

City/State Collected: Parachute, CO

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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Phone: 800-767-5859
Fax: 615-758-5859

L# 1365156

Table #

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR						Rem./Contaminant	Sample # (lab only)
20210610-Texaco Fed-62-14 SB3 (52-54)	Grab	SS	52-54	6/10/21	1330	1	X	X	X	X	X							-11
20210610-Texaco-Fed-62-14 SB3 (59-60.5)	1	1	59-60.5	1	1435	2	X	X	X	X	X							-12

Sample Receipt Checklist
COC Seal Present/Intact: ✓Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	6/10/21	1645			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 3.6+.1=3.7	COC Seal Intact: ____Y ____N ____NA
	6/10/21	1730			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:
			T. Kobeysky 9883	6/11/21 0930 0883 8772	

ANALYTICAL REPORT

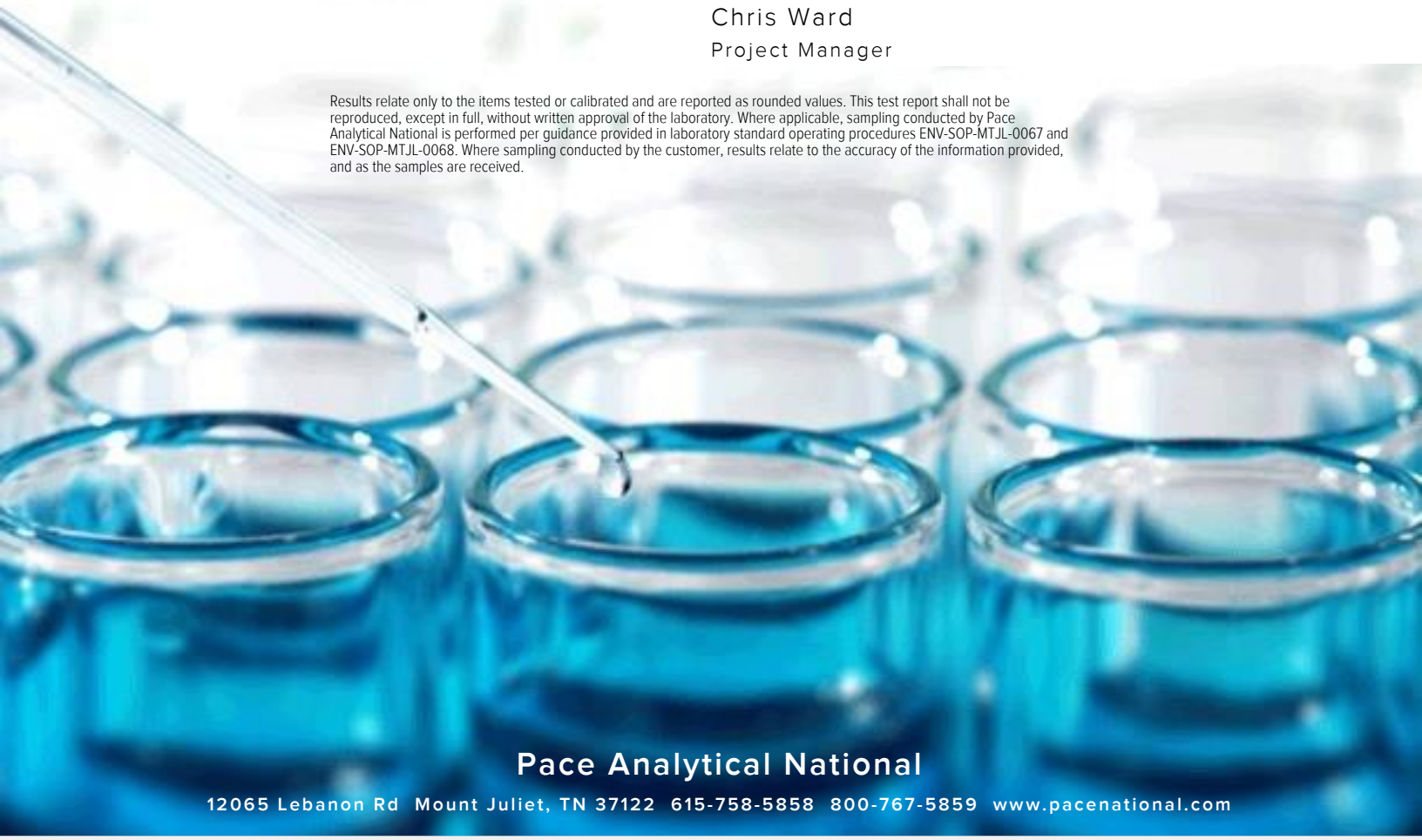
June 30, 2021

Caerus Oil and Gas

Sample Delivery Group:	L1367833
Samples Received:	06/17/2021
Project Number:	
Description:	Texaco Fee 62-14
Report To:	Brett Middleton 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

20210616-TEXACOFEE-62-14-SB4 (5-7) L1367833-01 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 09:30 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:05	06/25/21 11:05	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692863	1	06/22/21 12:39	06/24/21 10:31	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 09:04	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:09	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 17:07	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 11:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 17:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693824	1	06/23/21 20:40	06/24/21 16:30	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693803	1	06/23/21 15:15	06/23/21 21:09	LEA	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (10-12) L1367833-02 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 09:45 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:14	06/25/21 11:14	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692863	1	06/22/21 12:39	06/24/21 10:36	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:05	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:12	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:02	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 11:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 18:05	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/25/21 13:35	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693803	1	06/23/21 15:15	06/23/21 21:27	LEA	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (15-17) L1367833-03 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 10:00 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:17	06/25/21 11:17	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692863	1	06/22/21 12:39	06/24/21 10:41	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:08	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:15	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:05	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 12:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 18:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/24/21 11:02	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693803	1	06/23/21 15:15	06/23/21 21:45	LEA	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (20-22) L1367833-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 10:30 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:20	06/25/21 11:20	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:16	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:12	KMG	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (20-22) L1367833-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 10:30 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:18	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:09	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 12:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 18:43	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/25/21 13:49	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693803	1	06/23/21 15:15	06/23/21 22:20	LEA	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (25-27) L1367833-05 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 10:55 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:23	06/25/21 11:23	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:15	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:22	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:12	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 12:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 19:02	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1694524	4	06/18/21 19:55	06/24/21 15:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/24/21 11:57	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693803	1	06/23/21 15:15	06/23/21 22:38	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (30-32) L1367833-06 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 11:20 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:26	06/25/21 11:26	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:26	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:24	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:25	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 13:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 19:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1694524	40	06/18/21 19:55	06/24/21 17:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	5	06/23/21 20:42	06/25/21 13:08	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 20:45	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (35-37) L1367833-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 11:50 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:29	06/25/21 11:29	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:32	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:27	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:28	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	100	06/18/21 19:55	06/24/21 14:27	BMB	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (35-37) L1367833-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 11:50 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	8	06/18/21 19:55	06/21/21 23:09	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	10	06/23/21 20:42	06/24/21 12:38	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 21:02	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (40-42) L1367833-08 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 12:30 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:32	06/25/21 11:32	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:42	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:31	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:31	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:33	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	100	06/18/21 19:55	06/24/21 14:47	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	8	06/18/21 19:55	06/21/21 23:28	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	5	06/23/21 20:42	06/25/21 13:21	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 21:19	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (45-47) L1367833-09 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 13:15 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:35	06/25/21 11:35	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:47	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693531	1	06/23/21 09:48	06/23/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:34	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:39	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 13:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 19:40	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/24/21 10:07	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 21:37	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (50-52) L1367833-10 Solid

Collected by: Reed Johnson | Collected date/time: 06/16/21 14:15 | Received date/time: 06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:37	06/25/21 11:37	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 05:52	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693666	1	06/23/21 10:00	06/23/21 16:30	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:38	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:42	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1693999	1	06/18/21 19:55	06/24/21 14:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 19:59	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/24/21 11:43	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 21:54	AAT	Mt. Juliet, TN

20210616-TEXACOFEE-62-14-SB4 (55-57) L1367833-11 Solid

Collected by	Collected date/time	Received date/time
Reed Johnson	06/16/21 15:15	06/17/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1691953	1	06/25/21 11:40	06/25/21 11:40	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 06:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693666	1	06/23/21 10:00	06/23/21 16:30	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692086	1	06/21/21 11:30	06/21/21 18:25	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1691523	1	06/22/21 18:03	06/26/21 10:41	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1691952	1	06/22/21 09:11	06/23/21 15:45	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1691527	5	06/22/21 18:12	06/23/21 18:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1694001	1	06/18/21 19:55	06/25/21 15:03	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692591	1	06/18/21 19:55	06/21/21 20:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1694524	1	06/18/21 19:55	06/24/21 16:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1693826	1	06/23/21 20:42	06/24/21 10:48	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1693806	1	06/23/21 15:25	06/23/21 22:11	AAT	Mt. Juliet, TN

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.

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.18		1	06/25/2021 11:05	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 10:31	WG1692863

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.72	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-01 WG1693531: 8.72 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2010		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	336	J6	0.0852	0.500	1	06/26/2021 09:04	WG1691523
Cadmium	0.364	J	0.0471	0.500	1	06/26/2021 09:04	WG1691523
Copper	10.2		0.400	2.00	1	06/26/2021 09:04	WG1691523
Lead	7.58		0.208	0.500	1	06/26/2021 09:04	WG1691523
Nickel	13.5	J3	0.132	2.00	1	06/26/2021 09:04	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 09:04	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 09:04	WG1691523
Zinc	47.7	J3 J6	0.832	5.00	1	06/26/2021 09:04	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.336		0.0167	0.200	1	06/23/2021 15:09	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.54	O1	0.100	1.00	5	06/23/2021 17:07	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0305	J	0.0217	0.100	1	06/24/2021 11:29	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*87.5*			*77.0-120*		*06/24/2021 11:29*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000600	J	0.000467	0.00100	1	06/21/2021 17:46	WG1692591
Toluene	0.00210	J	0.00130	0.00500	1	06/21/2021 17:46	WG1692591
Ethylbenzene	0.00110	J	0.000737	0.00250	1	06/21/2021 17:46	WG1692591
Xylenes, Total	0.00365	J	0.000880	0.00650	1	06/21/2021 17:46	WG1692591
1,2,4-Trimethylbenzene	0.00310	J	0.00158	0.00500	1	06/21/2021 17:46	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 17:46	WG1692591
(S) Toluene-d8	*105*			*75.0-131*		*06/21/2021 17:46*	WG1692591
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*06/21/2021 17:46*	WG1692591
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*06/21/2021 17:46*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.19	J	1.61	4.00	1	06/24/2021 16:30	WG1693824
C28-C36 Motor Oil Range	4.07		0.274	4.00	1	06/24/2021 16:30	WG1693824
(S) o-Terphenyl	*41.9*			*18.0-148*		*06/24/2021 16:30*	WG1693824

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:09	WG1693803
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:09	WG1693803
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:09	WG1693803
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:09	WG1693803
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:09	WG1693803
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:09	WG1693803
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:09	WG1693803
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:09	WG1693803
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:09	WG1693803
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:09	WG1693803
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:09	WG1693803
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:09	WG1693803
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:09	WG1693803
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:09	WG1693803
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:09	WG1693803
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:09	WG1693803
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:09	WG1693803
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:09	WG1693803
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:09	WG1693803
(S) p-Terphenyl-d14	*93.2*			*23.0-120*		*06/23/2021 21:09*	WG1693803
(S) Nitrobenzene-d5	*63.8*			*14.0-149*		*06/23/2021 21:09*	WG1693803
(S) 2-Fluorobiphenyl	*76.4*			*34.0-125*		*06/23/2021 21:09*	WG1693803

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.21		1	06/25/2021 11:14	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 10:36	WG1692863

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.80	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-02 WG1693531: 8.8 at 21.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1540		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	305		0.0852	0.500	1	06/26/2021 10:05	WG1691523
Cadmium	0.264	J	0.0471	0.500	1	06/26/2021 10:05	WG1691523
Copper	9.89		0.400	2.00	1	06/26/2021 10:05	WG1691523
Lead	6.37		0.208	0.500	1	06/26/2021 10:05	WG1691523
Nickel	11.8		0.132	2.00	1	06/26/2021 10:05	WG1691523
Selenium	0.865	J	0.764	2.00	1	06/26/2021 10:05	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:05	WG1691523
Zinc	33.4		0.832	5.00	1	06/26/2021 10:05	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.484		0.0167	0.200	1	06/23/2021 15:12	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.4		0.100	1.00	5	06/23/2021 18:02	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.107		0.0217	0.100	1	06/24/2021 11:51	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*85.7*			*77.0-120*		*06/24/2021 11:51*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/21/2021 18:05	WG1692591
Toluene	U		0.00130	0.00500	1	06/21/2021 18:05	WG1692591
Ethylbenzene	U		0.000737	0.00250	1	06/21/2021 18:05	WG1692591
Xylenes, Total	0.00128	J	0.000880	0.00650	1	06/21/2021 18:05	WG1692591
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/21/2021 18:05	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 18:05	WG1692591
(S) Toluene-d8	*103*			*75.0-131*		*06/21/2021 18:05*	WG1692591
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*06/21/2021 18:05*	WG1692591
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*06/21/2021 18:05*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.46		1.61	4.00	1	06/25/2021 13:35	WG1693826
C28-C36 Motor Oil Range	35.5		0.274	4.00	1	06/25/2021 13:35	WG1693826
(S) o-Terphenyl	*50.6*			*18.0-148*		*06/25/2021 13:35*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:27	WG1693803
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:27	WG1693803
Acenaphthylene	0.00675		0.00216	0.00600	1	06/23/2021 21:27	WG1693803
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:27	WG1693803
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:27	WG1693803
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:27	WG1693803
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:27	WG1693803
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:27	WG1693803
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:27	WG1693803
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:27	WG1693803
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:27	WG1693803
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:27	WG1693803
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:27	WG1693803
Naphthalene	0.129		0.00408	0.0200	1	06/23/2021 21:27	WG1693803
Phenanthrene	0.00243	J	0.00231	0.00600	1	06/23/2021 21:27	WG1693803
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:27	WG1693803
1-Methylnaphthalene	0.00938	J	0.00449	0.0200	1	06/23/2021 21:27	WG1693803
2-Methylnaphthalene	0.0252		0.00427	0.0200	1	06/23/2021 21:27	WG1693803
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:27	WG1693803
(S) p-Terphenyl-d14	*103*			*23.0-120*		*06/23/2021 21:27*	WG1693803
(S) Nitrobenzene-d5	*67.1*			*14.0-149*		*06/23/2021 21:27*	WG1693803
(S) 2-Fluorobiphenyl	*82.0*			*34.0-125*		*06/23/2021 21:27*	WG1693803

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.25		1	06/25/2021 11:17	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 10:41	WG1692863

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.65	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-03 WG1693531: 8.65 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2430		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	273		0.0852	0.500	1	06/26/2021 10:08	WG1691523
Cadmium	0.284	J	0.0471	0.500	1	06/26/2021 10:08	WG1691523
Copper	13.8		0.400	2.00	1	06/26/2021 10:08	WG1691523
Lead	11.8		0.208	0.500	1	06/26/2021 10:08	WG1691523
Nickel	14.0		0.132	2.00	1	06/26/2021 10:08	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:08	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:08	WG1691523
Zinc	41.9		0.832	5.00	1	06/26/2021 10:08	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.320		0.0167	0.200	1	06/23/2021 15:15	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.04		0.100	1.00	5	06/23/2021 18:05	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0728	J	0.0217	0.100	1	06/24/2021 12:13	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*87.6*			*77.0-120*		*06/24/2021 12:13*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/21/2021 18:24	WG1692591
Toluene	0.00150	J	0.00130	0.00500	1	06/21/2021 18:24	WG1692591
Ethylbenzene	U		0.000737	0.00250	1	06/21/2021 18:24	WG1692591
Xylenes, Total	0.00310	J	0.000880	0.00650	1	06/21/2021 18:24	WG1692591
1,2,4-Trimethylbenzene	0.00195	J	0.00158	0.00500	1	06/21/2021 18:24	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 18:24	WG1692591
(S) Toluene-d8	*103*			*75.0-131*		*06/21/2021 18:24*	WG1692591
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*06/21/2021 18:24*	WG1692591
(S) 1,2-Dichloroethane-d4	*86.1*			*70.0-130*		*06/21/2021 18:24*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.0		1.61	4.00	1	06/24/2021 11:02	WG1693826
C28-C36 Motor Oil Range	47.1		0.274	4.00	1	06/24/2021 11:02	WG1693826
(S) o-Terphenyl	*54.1*			*18.0-148*		*06/24/2021 11:02*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:45	WG1693803
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:45	WG1693803
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:45	WG1693803
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:45	WG1693803
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:45	WG1693803
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:45	WG1693803
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:45	WG1693803
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:45	WG1693803
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:45	WG1693803
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:45	WG1693803
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:45	WG1693803
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:45	WG1693803
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:45	WG1693803
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:45	WG1693803
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:45	WG1693803
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:45	WG1693803
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:45	WG1693803
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:45	WG1693803
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:45	WG1693803
(S) p-Terphenyl-d14	*93.4*			*23.0-120*		*06/23/2021 21:45*	WG1693803
(S) Nitrobenzene-d5	*68.6*			*14.0-149*		*06/23/2021 21:45*	WG1693803
(S) 2-Fluorobiphenyl	*74.8*			*34.0-125*		*06/23/2021 21:45*	WG1693803

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.26		1	06/25/2021 11:20	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:16	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.01	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-04 WG1693531: 8.01 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	4190		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	271		0.0852	0.500	1	06/26/2021 10:12	WG1691523
Cadmium	0.328	J	0.0471	0.500	1	06/26/2021 10:12	WG1691523
Copper	21.0		0.400	2.00	1	06/26/2021 10:12	WG1691523
Lead	8.09		0.208	0.500	1	06/26/2021 10:12	WG1691523
Nickel	20.5		0.132	2.00	1	06/26/2021 10:12	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:12	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:12	WG1691523
Zinc	47.1		0.832	5.00	1	06/26/2021 10:12	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.172	J	0.0167	0.200	1	06/23/2021 15:18	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.3		0.100	1.00	5	06/23/2021 18:09	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.43		0.0217	0.100	1	06/24/2021 12:35	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*87.1*			*77.0-120*		*06/24/2021 12:35*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0264		0.000467	0.00100	1	06/21/2021 18:43	WG1692591
Toluene	0.697		0.00130	0.00500	1	06/21/2021 18:43	WG1692591
Ethylbenzene	0.0656		0.000737	0.00250	1	06/21/2021 18:43	WG1692591
Xylenes, Total	0.699		0.000880	0.00650	1	06/21/2021 18:43	WG1692591
1,2,4-Trimethylbenzene	0.0164		0.00158	0.00500	1	06/21/2021 18:43	WG1692591
1,3,5-Trimethylbenzene	0.0189		0.00200	0.00500	1	06/21/2021 18:43	WG1692591
(S) Toluene-d8	*102*			*75.0-131*		*06/21/2021 18:43*	WG1692591
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*06/21/2021 18:43*	WG1692591
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*06/21/2021 18:43*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.9		1.61	4.00	1	06/25/2021 13:49	WG1693826
C28-C36 Motor Oil Range	41.0		0.274	4.00	1	06/25/2021 13:49	WG1693826
(S) o-Terphenyl	*64.2*			*18.0-148*		*06/25/2021 13:49*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 22:20	WG1693803
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 22:20	WG1693803
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 22:20	WG1693803
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 22:20	WG1693803
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 22:20	WG1693803
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 22:20	WG1693803
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 22:20	WG1693803
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 22:20	WG1693803
Chrysene	U		0.00232	0.00600	1	06/23/2021 22:20	WG1693803
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 22:20	WG1693803
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 22:20	WG1693803
Fluorene	U		0.00205	0.00600	1	06/23/2021 22:20	WG1693803
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 22:20	WG1693803
Naphthalene	U		0.00408	0.0200	1	06/23/2021 22:20	WG1693803
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 22:20	WG1693803
Pyrene	U		0.00200	0.00600	1	06/23/2021 22:20	WG1693803
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 22:20	WG1693803
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 22:20	WG1693803
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 22:20	WG1693803
(S) p-Terphenyl-d14	*91.4*			*23.0-120*		*06/23/2021 22:20*	WG1693803
(S) Nitrobenzene-d5	*63.9*			*14.0-149*		*06/23/2021 22:20*	WG1693803
(S) 2-Fluorobiphenyl	*71.0*			*34.0-125*		*06/23/2021 22:20*	WG1693803

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.07		1	06/25/2021 11:23	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:21	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.15	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-05 WG1693531: 8.15 at 20.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2920		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	268		0.0852	0.500	1	06/26/2021 10:15	WG1691523
Cadmium	0.400	J	0.0471	0.500	1	06/26/2021 10:15	WG1691523
Copper	16.7		0.400	2.00	1	06/26/2021 10:15	WG1691523
Lead	7.09		0.208	0.500	1	06/26/2021 10:15	WG1691523
Nickel	16.4		0.132	2.00	1	06/26/2021 10:15	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:15	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:15	WG1691523
Zinc	45.8		0.832	5.00	1	06/26/2021 10:15	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.262		0.0167	0.200	1	06/23/2021 15:22	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.01		0.100	1.00	5	06/23/2021 18:12	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.75		0.0217	0.100	1	06/24/2021 12:57	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*87.8*			*77.0-120*		*06/24/2021 12:57*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0865		0.000467	0.00100	1	06/21/2021 19:02	WG1692591
Toluene	8.61		0.00520	0.0200	4	06/24/2021 15:45	WG1694524
Ethylbenzene	0.243		0.000737	0.00250	1	06/21/2021 19:02	WG1692591
Xylenes, Total	2.45		0.000880	0.00650	1	06/21/2021 19:02	WG1692591
1,2,4-Trimethylbenzene	0.0163		0.00158	0.00500	1	06/21/2021 19:02	WG1692591
1,3,5-Trimethylbenzene	0.0325		0.00200	0.00500	1	06/21/2021 19:02	WG1692591
(S) Toluene-d8	*100*			*75.0-131*		*06/21/2021 19:02*	WG1692591
(S) Toluene-d8	*104*			*75.0-131*		*06/24/2021 15:45*	WG1694524
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/21/2021 19:02*	WG1692591
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*06/24/2021 15:45*	WG1694524
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*06/21/2021 19:02*	WG1692591
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*06/24/2021 15:45*	WG1694524

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	26.9		1.61	4.00	1	06/24/2021 11:57	WG1693826
C28-C36 Motor Oil Range	113		0.274	4.00	1	06/24/2021 11:57	WG1693826
(S) o-Terphenyl	*52.7*			*18.0-148*		*06/24/2021 11:57*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 22:38	WG1693803
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 22:38	WG1693803
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 22:38	WG1693803
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 22:38	WG1693803
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 22:38	WG1693803
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 22:38	WG1693803
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 22:38	WG1693803
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 22:38	WG1693803
Chrysene	U		0.00232	0.00600	1	06/23/2021 22:38	WG1693803
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 22:38	WG1693803
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 22:38	WG1693803
Fluorene	U		0.00205	0.00600	1	06/23/2021 22:38	WG1693803
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 22:38	WG1693803
Naphthalene	U		0.00408	0.0200	1	06/23/2021 22:38	WG1693803
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 22:38	WG1693803
Pyrene	U		0.00200	0.00600	1	06/23/2021 22:38	WG1693803
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 22:38	WG1693803
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 22:38	WG1693803
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 22:38	WG1693803
(S) p-Terphenyl-d14	*97.1*			*23.0-120*		*06/23/2021 22:38*	WG1693803
(S) Nitrobenzene-d5	*58.8*			*14.0-149*		*06/23/2021 22:38*	WG1693803
(S) 2-Fluorobiphenyl	*74.8*			*34.0-125*		*06/23/2021 22:38*	WG1693803

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.39		1	06/25/2021 11:26	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:26	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.15	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-06 WG1693531: 8.15 at 20.9C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2610		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	293		0.0852	0.500	1	06/26/2021 10:24	WG1691523
Cadmium	0.397	J	0.0471	0.500	1	06/26/2021 10:24	WG1691523
Copper	18.0		0.400	2.00	1	06/26/2021 10:24	WG1691523
Lead	8.00		0.208	0.500	1	06/26/2021 10:24	WG1691523
Nickel	16.5		0.132	2.00	1	06/26/2021 10:24	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:24	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:24	WG1691523
Zinc	47.4		0.832	5.00	1	06/26/2021 10:24	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.211		0.0167	0.200	1	06/23/2021 15:25	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.87		0.100	1.00	5	06/23/2021 18:26	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	5.95		0.0217	0.100	1	06/24/2021 13:19	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*90.5*			*77.0-120*		*06/24/2021 13:19*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0629		0.000467	0.00100	1	06/21/2021 19:21	WG1692591
Toluene	11.6		0.0520	0.200	40	06/24/2021 17:16	WG1694524
Ethylbenzene	0.314		0.000737	0.00250	1	06/21/2021 19:21	WG1692591
Xylenes, Total	3.43		0.000880	0.00650	1	06/21/2021 19:21	WG1692591
1,2,4-Trimethylbenzene	0.0236		0.00158	0.00500	1	06/21/2021 19:21	WG1692591
1,3,5-Trimethylbenzene	0.0503		0.00200	0.00500	1	06/21/2021 19:21	WG1692591
(S) Toluene-d8	*99.2*			*75.0-131*		*06/21/2021 19:21*	WG1692591
(S) Toluene-d8	*95.0*			*75.0-131*		*06/24/2021 17:16*	WG1694524
(S) 4-Bromofluorobenzene	*98.3*			*67.0-138*		*06/21/2021 19:21*	WG1692591
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*06/24/2021 17:16*	WG1694524
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*06/21/2021 19:21*	WG1692591
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/24/2021 17:16*	WG1694524

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.1		8.05	20.0	5	06/25/2021 13:08	WG1693826
C28-C36 Motor Oil Range	73.3		1.37	20.0	5	06/25/2021 13:08	WG1693826
(S) o-Terphenyl	*62.8*			*18.0-148*		*06/25/2021 13:08*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 20:45	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 20:45	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 20:45	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 20:45	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 20:45	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 20:45	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 20:45	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 20:45	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 20:45	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 20:45	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 20:45	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 20:45	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 20:45	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 20:45	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 20:45	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 20:45	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 20:45	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 20:45	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 20:45	WG1693806
(S) p-Terphenyl-d14	*89.4*			*23.0-120*		*06/23/2021 20:45*	WG1693806
(S) Nitrobenzene-d5	*56.7*			*14.0-149*		*06/23/2021 20:45*	WG1693806
(S) 2-Fluorobiphenyl	*72.7*			*34.0-125*		*06/23/2021 20:45*	WG1693806

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.10		1	06/25/2021 11:29	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:32	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-07 WG1693531: 8.35 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1620		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	266		0.0852	0.500	1	06/26/2021 10:27	WG1691523
Cadmium	0.327	J	0.0471	0.500	1	06/26/2021 10:27	WG1691523
Copper	15.5		0.400	2.00	1	06/26/2021 10:27	WG1691523
Lead	6.49		0.208	0.500	1	06/26/2021 10:27	WG1691523
Nickel	15.5		0.132	2.00	1	06/26/2021 10:27	WG1691523
Selenium	0.954	J	0.764	2.00	1	06/26/2021 10:27	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:27	WG1691523
Zinc	45.3		0.832	5.00	1	06/26/2021 10:27	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.183	J	0.0167	0.200	1	06/23/2021 15:28	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.87		0.100	1.00	5	06/23/2021 18:29	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	120		2.17	10.0	100	06/24/2021 14:27	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*06/24/2021 14:27*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.193		0.00374	0.00800	8	06/21/2021 23:09	WG1692591
Toluene	3.37		0.0104	0.0400	8	06/21/2021 23:09	WG1692591
Ethylbenzene	0.187		0.00590	0.0200	8	06/21/2021 23:09	WG1692591
Xylenes, Total	1.39		0.00704	0.0520	8	06/21/2021 23:09	WG1692591
1,2,4-Trimethylbenzene	U		0.0126	0.0400	8	06/21/2021 23:09	WG1692591
1,3,5-Trimethylbenzene	U		0.0160	0.0400	8	06/21/2021 23:09	WG1692591
(S) Toluene-d8	*104*			*75.0-131*		*06/21/2021 23:09*	WG1692591
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/21/2021 23:09*	WG1692591
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*06/21/2021 23:09*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	60.8		16.1	40.0	10	06/24/2021 12:38	WG1693826
C28-C36 Motor Oil Range	184		2.74	40.0	10	06/24/2021 12:38	WG1693826
(S) o-Terphenyl	*51.4*			*18.0-148*		*06/24/2021 12:38*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:02	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:02	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:02	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:02	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:02	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:02	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:02	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:02	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:02	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:02	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:02	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:02	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:02	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:02	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:02	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:02	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:02	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:02	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:02	WG1693806
(S) p-Terphenyl-d14	*85.8*			*23.0-120*		*06/23/2021 21:02*	WG1693806
(S) Nitrobenzene-d5	*54.4*			*14.0-149*		*06/23/2021 21:02*	WG1693806
(S) 2-Fluorobiphenyl	*70.2*			*34.0-125*		*06/23/2021 21:02*	WG1693806

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.84		1	06/25/2021 11:32	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:42	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.39	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-08 WG1693531: 8.39 at 21C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1750		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	439		0.0852	0.500	1	06/26/2021 10:31	WG1691523
Cadmium	0.322	J	0.0471	0.500	1	06/26/2021 10:31	WG1691523
Copper	11.3		0.400	2.00	1	06/26/2021 10:31	WG1691523
Lead	6.43		0.208	0.500	1	06/26/2021 10:31	WG1691523
Nickel	13.3		0.132	2.00	1	06/26/2021 10:31	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:31	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:31	WG1691523
Zinc	43.2		0.832	5.00	1	06/26/2021 10:31	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.225		0.0167	0.200	1	06/23/2021 15:31	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.70		0.100	1.00	5	06/23/2021 18:33	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	57.1		2.17	10.0	100	06/24/2021 14:47	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-120*		*06/24/2021 14:47*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.103		0.00374	0.00800	8	06/21/2021 23:28	WG1692591
Toluene	1.93		0.0104	0.0400	8	06/21/2021 23:28	WG1692591
Ethylbenzene	0.114		0.00590	0.0200	8	06/21/2021 23:28	WG1692591
Xylenes, Total	0.748		0.00704	0.0520	8	06/21/2021 23:28	WG1692591
1,2,4-Trimethylbenzene	U		0.0126	0.0400	8	06/21/2021 23:28	WG1692591
1,3,5-Trimethylbenzene	U		0.0160	0.0400	8	06/21/2021 23:28	WG1692591
(S) Toluene-d8	*102*			*75.0-131*		*06/21/2021 23:28*	WG1692591
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/21/2021 23:28*	WG1692591
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*06/21/2021 23:28*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.6		8.05	20.0	5	06/25/2021 13:21	WG1693826
C28-C36 Motor Oil Range	93.4		1.37	20.0	5	06/25/2021 13:21	WG1693826
(S) o-Terphenyl	*66.5*			*18.0-148*		*06/25/2021 13:21*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:19	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:19	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:19	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:19	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:19	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:19	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:19	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:19	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:19	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:19	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:19	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:19	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:19	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:19	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:19	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:19	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:19	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:19	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:19	WG1693806
(S) p-Terphenyl-d14	*90.2*			*23.0-120*		*06/23/2021 21:19*	WG1693806
(S) Nitrobenzene-d5	*61.7*			*14.0-149*		*06/23/2021 21:19*	WG1693806
(S) 2-Fluorobiphenyl	*72.9*			*34.0-125*		*06/23/2021 21:19*	WG1693806

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.01		1	06/25/2021 11:35	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:47	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.49	T8	1	06/23/2021 12:00	WG1693531

Sample Narrative:

L1367833-09 WG1693531: 8.49 at 21.2C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1470		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	342		0.0852	0.500	1	06/26/2021 10:34	WG1691523
Cadmium	0.303	J	0.0471	0.500	1	06/26/2021 10:34	WG1691523
Copper	12.3		0.400	2.00	1	06/26/2021 10:34	WG1691523
Lead	6.69		0.208	0.500	1	06/26/2021 10:34	WG1691523
Nickel	15.2		0.132	2.00	1	06/26/2021 10:34	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:34	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:34	WG1691523
Zinc	42.8		0.832	5.00	1	06/26/2021 10:34	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.122	J	0.0167	0.200	1	06/23/2021 15:39	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.35		0.100	1.00	5	06/23/2021 18:36	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.69		0.0217	0.100	1	06/24/2021 13:41	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*86.1*			*77.0-120*		*06/24/2021 13:41*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0559		0.000467	0.00100	1	06/21/2021 19:40	WG1692591
Toluene	0.900		0.00130	0.00500	1	06/21/2021 19:40	WG1692591
Ethylbenzene	0.0336		0.000737	0.00250	1	06/21/2021 19:40	WG1692591
Xylenes, Total	0.167		0.000880	0.00650	1	06/21/2021 19:40	WG1692591
1,2,4-Trimethylbenzene	0.00222	J	0.00158	0.00500	1	06/21/2021 19:40	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 19:40	WG1692591
(S) Toluene-d8	*101*			*75.0-131*		*06/21/2021 19:40*	WG1692591
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*06/21/2021 19:40*	WG1692591
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*06/21/2021 19:40*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	11.0		1.61	4.00	1	06/24/2021 10:07	WG1693826
C28-C36 Motor Oil Range	43.5		0.274	4.00	1	06/24/2021 10:07	WG1693826
(S) o-Terphenyl	*57.2*			*18.0-148*		*06/24/2021 10:07*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:37	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:37	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:37	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:37	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:37	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:37	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:37	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:37	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:37	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:37	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:37	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:37	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:37	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:37	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:37	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:37	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:37	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:37	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:37	WG1693806
(S) p-Terphenyl-d14	*91.1*			*23.0-120*		*06/23/2021 21:37*	WG1693806
(S) Nitrobenzene-d5	*59.7*			*14.0-149*		*06/23/2021 21:37*	WG1693806
(S) 2-Fluorobiphenyl	*73.1*			*34.0-125*		*06/23/2021 21:37*	WG1693806

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.34		1	06/25/2021 11:37	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 05:52	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.97	T8	1	06/23/2021 16:30	WG1693666

Sample Narrative:

L1367833-10 WG1693666: 7.97 at 21.6C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3090		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	240		0.0852	0.500	1	06/26/2021 10:38	WG1691523
Cadmium	0.355	J	0.0471	0.500	1	06/26/2021 10:38	WG1691523
Copper	21.1		0.400	2.00	1	06/26/2021 10:38	WG1691523
Lead	6.55		0.208	0.500	1	06/26/2021 10:38	WG1691523
Nickel	21.6		0.132	2.00	1	06/26/2021 10:38	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:38	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:38	WG1691523
Zinc	62.6		0.832	5.00	1	06/26/2021 10:38	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.164	J	0.0167	0.200	1	06/23/2021 15:42	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.5		0.100	1.00	5	06/23/2021 18:39	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.50		0.0217	0.100	1	06/24/2021 14:03	WG1693999
(S) a,a,a-Trifluorotoluene(FID)	*90.9*			*77.0-120*		*06/24/2021 14:03*	WG1693999

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0567		0.000467	0.00100	1	06/21/2021 19:59	WG1692591
Toluene	0.241		0.00130	0.00500	1	06/21/2021 19:59	WG1692591
Ethylbenzene	0.00268		0.000737	0.00250	1	06/21/2021 19:59	WG1692591
Xylenes, Total	0.00920		0.000880	0.00650	1	06/21/2021 19:59	WG1692591
1,2,4-Trimethylbenzene	0.00205	J	0.00158	0.00500	1	06/21/2021 19:59	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 19:59	WG1692591
(S) Toluene-d8	*104*			*75.0-131*		*06/21/2021 19:59*	WG1692591
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*06/21/2021 19:59*	WG1692591
(S) 1,2-Dichloroethane-d4	*86.4*			*70.0-130*		*06/21/2021 19:59*	WG1692591

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	19.1		1.61	4.00	1	06/24/2021 11:43	WG1693826
C28-C36 Motor Oil Range	70.6		0.274	4.00	1	06/24/2021 11:43	WG1693826
(S) o-Terphenyl	*46.2*			*18.0-148*		*06/24/2021 11:43*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 21:54	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 21:54	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 21:54	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 21:54	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 21:54	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 21:54	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 21:54	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 21:54	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 21:54	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 21:54	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 21:54	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 21:54	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 21:54	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 21:54	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 21:54	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 21:54	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 21:54	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 21:54	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 21:54	WG1693806
(S) p-Terphenyl-d14	*93.7*			*23.0-120*		*06/23/2021 21:54*	WG1693806
(S) Nitrobenzene-d5	*63.4*			*14.0-149*		*06/23/2021 21:54*	WG1693806
(S) 2-Fluorobiphenyl	*75.8*			*34.0-125*		*06/23/2021 21:54*	WG1693806

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.52		1	06/25/2021 11:40	WG1691953

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 06:08	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.37	T8	1	06/23/2021 16:30	WG1693666

Sample Narrative:

L1367833-11 WG1693666: 8.37 at 21.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1620		10.0	1	06/21/2021 18:25	WG1692086

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	382		0.0852	0.500	1	06/26/2021 10:41	WG1691523
Cadmium	0.314	J	0.0471	0.500	1	06/26/2021 10:41	WG1691523
Copper	10.5		0.400	2.00	1	06/26/2021 10:41	WG1691523
Lead	7.05		0.208	0.500	1	06/26/2021 10:41	WG1691523
Nickel	17.6		0.132	2.00	1	06/26/2021 10:41	WG1691523
Selenium	U		0.764	2.00	1	06/26/2021 10:41	WG1691523
Silver	U		0.127	1.00	1	06/26/2021 10:41	WG1691523
Zinc	43.7		0.832	5.00	1	06/26/2021 10:41	WG1691523

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.139	J	0.0167	0.200	1	06/23/2021 15:45	WG1691952

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.66		0.100	1.00	5	06/23/2021 18:43	WG1691527

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.443		0.0217	0.100	1	06/25/2021 15:03	WG1694001
(S) a,a,a-Trifluorotoluene(FID)	*85.0*			*77.0-120*		*06/25/2021 15:03*	WG1694001

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00153		0.000467	0.00100	1	06/21/2021 20:18	WG1692591
Toluene	0.0249		0.00130	0.00500	1	06/24/2021 16:57	WG1694524
Ethylbenzene	0.000916	J	0.000737	0.00250	1	06/21/2021 20:18	WG1692591
Xylenes, Total	0.00394	J	0.000880	0.00650	1	06/21/2021 20:18	WG1692591
1,2,4-Trimethylbenzene	0.00200	J	0.00158	0.00500	1	06/21/2021 20:18	WG1692591
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/21/2021 20:18	WG1692591
(S) Toluene-d8	*104*			*75.0-131*		*06/21/2021 20:18*	WG1692591
(S) Toluene-d8	*97.6*			*75.0-131*		*06/24/2021 16:57*	WG1694524
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*06/21/2021 20:18*	WG1692591
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*06/24/2021 16:57*	WG1694524
(S) 1,2-Dichloroethane-d4	*87.8*			*70.0-130*		*06/21/2021 20:18*	WG1692591
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*06/24/2021 16:57*	WG1694524

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.2		1.61	4.00	1	06/24/2021 10:48	WG1693826
C28-C36 Motor Oil Range	45.8		0.274	4.00	1	06/24/2021 10:48	WG1693826
(S) o-Terphenyl	*62.3*			*18.0-148*		*06/24/2021 10:48*	WG1693826

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/23/2021 22:11	WG1693806
Acenaphthene	U		0.00209	0.00600	1	06/23/2021 22:11	WG1693806
Acenaphthylene	U		0.00216	0.00600	1	06/23/2021 22:11	WG1693806
Benzo(a)anthracene	U		0.00173	0.00600	1	06/23/2021 22:11	WG1693806
Benzo(a)pyrene	U		0.00179	0.00600	1	06/23/2021 22:11	WG1693806
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/23/2021 22:11	WG1693806
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/23/2021 22:11	WG1693806
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/23/2021 22:11	WG1693806
Chrysene	U		0.00232	0.00600	1	06/23/2021 22:11	WG1693806
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/23/2021 22:11	WG1693806
Fluoranthene	U		0.00227	0.00600	1	06/23/2021 22:11	WG1693806
Fluorene	U		0.00205	0.00600	1	06/23/2021 22:11	WG1693806
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/23/2021 22:11	WG1693806
Naphthalene	U		0.00408	0.0200	1	06/23/2021 22:11	WG1693806
Phenanthrene	U		0.00231	0.00600	1	06/23/2021 22:11	WG1693806
Pyrene	U		0.00200	0.00600	1	06/23/2021 22:11	WG1693806
1-Methylnaphthalene	U		0.00449	0.0200	1	06/23/2021 22:11	WG1693806
2-Methylnaphthalene	U		0.00427	0.0200	1	06/23/2021 22:11	WG1693806
2-Chloronaphthalene	U		0.00466	0.0200	1	06/23/2021 22:11	WG1693806
(S) p-Terphenyl-d14	*74.7*			*23.0-120*		*06/23/2021 22:11*	WG1693806
(S) Nitrobenzene-d5	*50.6*			*14.0-149*		*06/23/2021 22:11*	WG1693806
(S) 2-Fluorobiphenyl	*62.0*			*34.0-125*		*06/23/2021 22:11*	WG1693806

QUALITY CONTROL SUMMARY

L1367833-01,02,03

Method Blank (MB)

(MB) R3671480-1 06/24/21 07:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1366954-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1366954-01 06/24/21 08:12 • (DUP) R3671480-3 06/24/21 08:18

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	0.744	0.985	1	27.9	J P1	20

L1367833-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1367833-03 06/24/21 10:41 • (DUP) R3671480-8 06/24/21 10:46

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3671480-2 06/24/21 07:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1366954-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1366954-02 06/24/21 08:23 • (MS) R3671480-4 06/24/21 08:28 • (MSD) R3671480-5 06/24/21 08:33

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 %
Hexavalent Chromium	20.0	U	18.1	20.7	90.6	103	1	75.0-125			13.1	20

L1366954-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1366954-02 06/24/21 08:23 • (MS) R3671480-6 06/24/21 08:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	650	U	707	109	50	75.0-125	

QUALITY CONTROL SUMMARY

L1367833-04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3671479-1 06/24/21 05:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1367833-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1367833-07 06/24/21 05:32 • (DUP) R3671479-3 06/24/21 05:37

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1368090-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1368090-05 06/24/21 07:10 • (DUP) R3671479-8 06/24/21 07:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3671479-2 06/24/21 05:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1368090-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1368090-02 06/24/21 06:23 • (MS) R3671479-6 06/24/21 06:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	647	U	596	92.1	50	75.0-125	

L1368090-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368090-02 06/24/21 06:23 • (MS) R3671479-4 06/24/21 06:29 • (MSD) R3671479-5 06/24/21 06:34

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 %
Hexavalent Chromium	20.0	U	9.07	6.38	45.4	31.9	1	75.0-125	J6	J3 J6	34.9	20

L1367734-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1367734-05 06/23/21 12:00 • (DUP) R3670847-2 06/23/21 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.30	8.30	1	0.000		1

Sample Narrative:

OS: 8.3 at 21.6C

DUP: 8.3 at 21.6C

L1367833-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1367833-02 06/23/21 12:00 • (DUP) R3670847-3 06/23/21 12:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	8.80	8.75	1	0.570		1

Sample Narrative:

OS: 8.8 at 21.1C

DUP: 8.75 at 21.2C

Laboratory Control Sample (LCS)

(LCS) R3670847-1 06/23/21 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.07 at 21.4C

L1368066-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1368066-01 06/23/21 16:30 • (DUP) R3671070-2 06/23/21 16:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.89	7.94	1	0.632		1

Sample Narrative:

OS: 7.89 at 21.6C

DUP: 7.94 at 21.6C

L1368090-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1368090-04 06/23/21 16:30 • (DUP) R3671070-3 06/23/21 16:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	11.7	11.7	1	0.342		1

Sample Narrative:

OS: 11.69 at 21.4C

DUP: 11.73 at 22.3C

Laboratory Control Sample (LCS)

(LCS) R3671070-1 06/23/21 16:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 21.8C

QUALITY CONTROL SUMMARY

L1367833-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3670004-1 06/21/21 18:25

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1367833-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1367833-03 06/21/21 18:25 • (DUP) R3670004-3 06/21/21 18:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	2430	2240	1	7.96		20

L1368090-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1368090-06 06/21/21 18:25 • (DUP) R3670004-4 06/21/21 18:25

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	3490	3710	1	6.11		20

Laboratory Control Sample (LCS)

(LCS) R3670004-2 06/21/21 18:25

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	269	100	85.0-115	

Method Blank (MB)

(MB) R3672407-1 06/26/21 08:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3672407-2 06/26/21 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	104	104	80.0-120	
Cadmium	100	100	100	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	101	101	80.0-120	
Nickel	100	104	104	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	18.3	91.7	80.0-120	
Zinc	100	102	102	80.0-120	

L1367833-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367833-01 06/26/21 09:04 • (MS) R3672407-5 06/26/21 09:14 • (MSD) R3672407-6 06/26/21 09:17

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 %
Barium	100	336	369	425	33.5	89.2	1	75.0-125	J6		14.0	20
Cadmium	100	0.364	87.0	102	86.6	102	1	75.0-125			15.8	20
Copper	100	10.2	91.3	110	81.1	100	1	75.0-125			18.7	20
Lead	100	7.58	92.0	110	84.4	103	1	75.0-125			18.2	20
Nickel	100	13.5	98.2	121	84.7	108	1	75.0-125		J3	21.0	20
Selenium	100	U	88.4	103	88.4	103	1	75.0-125			15.1	20
Silver	20.0	U	17.6	19.9	88.2	99.4	1	75.0-125			11.9	20
Zinc	100	47.7	111	138	63.3	90.2	1	75.0-125	J6	J3	21.6	20

QUALITY CONTROL SUMMARY

L1367833-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3671006-1 06/23/21 14:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3671006-2 06/23/21 14:31 • (LCSD) R3671006-3 06/23/21 14:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.948	0.942	94.8	94.2	80.0-120			0.632	20

QUALITY CONTROL SUMMARY

L1367833-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3671102-1 06/23/21 17:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3671102-2 06/23/21 17:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	99.0	99.0	80.0-120	

L1367833-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367833-01 06/23/21 17:07 • (MS) R3671102-5 06/23/21 17:17 • (MSD) R3671102-6 06/23/21 17:20

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	8.54	85.4	101	76.8	92.9	5	75.0-125			17.2	20

Method Blank (MB)

(MB) R3673155-2 06/24/21 04:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3673155-1 06/24/21 03:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*77.0-120*	

Method Blank (MB)

(MB) R3673573-2 06/25/21 13:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3673573-1 06/25/21 12:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.73	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*113*	*77.0-120*	

L1367559-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367559-01 06/25/21 20:15 • (MS) R3673573-3 06/25/21 22:49 • (MSD) R3673573-4 06/25/21 23:11

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 %
TPH (GC/FID) Low Fraction	2750	83.7	3140	3160	111	112	500	10.0-151			0.635	28
(S) a,a,a-Trifluorotoluene(FID)					*115*	*120*		*77.0-120*				

Method Blank (MB)

(MB) R3671425-2 06/21/21 15:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3671425-1 06/21/21 14:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.136	109	70.0-123	
Ethylbenzene	0.125	0.131	105	74.0-126	
Toluene	0.125	0.134	107	75.0-121	
1,2,4-Trimethylbenzene	0.125	0.123	98.4	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.123	98.4	73.0-127	
Xylenes, Total	0.375	0.400	107	72.0-127	
(S) Toluene-d8			*99.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*99.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*100*	*70.0-130*	

L1367833-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367833-11 06/21/21 20:18 • (MS) R3671425-3 06/22/21 00:07 • (MSD) R3671425-4 06/22/21 00:26

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 %
Benzene	0.124	0.00153	0.120	0.124	95.5	98.8	1	10.0-149			3.28	37
Ethylbenzene	0.124	0.000916	0.103	0.110	82.3	88.0	1	10.0-160			6.57	38
Toluene	0.124	0.00651	0.134	0.141	103	108	1	10.0-156			5.09	38
1,2,4-Trimethylbenzene	0.124	0.00200	0.0944	0.105	74.5	83.1	1	10.0-160			10.6	36
1,3,5-Trimethylbenzene	0.124	U	0.0961	0.106	77.5	85.5	1	10.0-160			9.80	38
Xylenes, Total	0.372	0.00394	0.310	0.344	82.3	91.4	1	10.0-160			10.4	38
(S) Toluene-d8					*103*	*102*		*75.0-131*				
(S) 4-Bromofluorobenzene					*99.7*	*102*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*88.9*	*94.7*		*70.0-130*				

Method Blank (MB)

(MB) R3671627-2 06/24/21 10:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00130	0.00500
(S) Toluene-d8	*99.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3671627-1 06/24/21 09:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Toluene	0.125	0.110	88.0	75.0-121	
(S) Toluene-d8			*96.4*	*75.0-131*	
(S) 4-Bromofluorobenzene			*99.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*115*	*70.0-130*	

Method Blank (MB)

(MB) R3671778-1 06/24/21 14:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*57.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3671778-2 06/24/21 14:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.4	68.8	50.0-150	
(S) o-Terphenyl			*71.3*	*18.0-148*	

L1367731-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367731-07 06/24/21 17:35 • (MS) R3671778-3 06/24/21 17:48 • (MSD) R3671778-4 06/24/21 18:01

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 %
C10-C28 Diesel Range	48.9	463	637	809	356	709	2	50.0-150	V	E J3 V	23.8	20
(S) o-Terphenyl					*51.7*	*22.8*		*18.0-148*				

QUALITY CONTROL SUMMARY

L1367833-02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3671393-1 06/24/21 08:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*73.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3671393-2 06/24/21 08:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	31.2	62.4	50.0-150	
(S) o-Terphenyl			*77.6*	*18.0-148*	

L1367833-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367833-09 06/24/21 10:07 • (MS) R3671393-3 06/24/21 10:21 • (MSD) R3671393-4 06/24/21 10:35

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 %
C10-C28 Diesel Range	47.6	11.0	35.6	42.8	51.7	64.6	1	50.0-150			18.4	20
(S) o-Terphenyl					*59.3*	*66.9*		*18.0-148*				

Method Blank (MB)

(MB) R3671146-2 06/23/21 19:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*76.6*			*14.0-149*
(S) 2-Fluorobiphenyl	*86.6*			*34.0-125*
(S) p-Terphenyl-d14	*112*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3671146-1 06/23/21 18:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0560	70.0	50.0-126	
Acenaphthene	0.0800	0.0646	80.7	50.0-120	
Acenaphthylene	0.0800	0.0654	81.8	50.0-120	
Benzo(a)anthracene	0.0800	0.0640	80.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0554	69.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0654	81.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0658	82.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0648	81.0	49.0-125	
Chrysene	0.0800	0.0719	89.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0607	75.9	47.0-125	
Fluoranthene	0.0800	0.0717	89.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3671146-1 06/23/21 18:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0677	84.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0630	78.8	46.0-125	
Naphthalene	0.0800	0.0613	76.6	50.0-120	
Phenanthrene	0.0800	0.0591	73.9	47.0-120	
Pyrene	0.0800	0.0687	85.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0697	87.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0647	80.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0619	77.4	50.0-120	
(S) Nitrobenzene-d5			*91.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*91.6*	*34.0-125*	
(S) p-Terphenyl-d14			*106*	*23.0-120*	

L1367677-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367677-04 06/23/21 19:22 • (MS) R3671146-3 06/23/21 19:40 • (MSD) R3671146-4 06/23/21 19:58

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 %
Anthracene	0.0792	U	0.0546	0.0494	68.9	62.1	1	10.0-145			10.0	30
Acenaphthene	0.0792	U	0.0633	0.0590	79.9	74.1	1	14.0-127			7.03	27
Acenaphthylene	0.0792	U	0.0645	0.0606	81.4	76.1	1	21.0-124			6.24	25
Benzo(a)anthracene	0.0792	U	0.0595	0.0563	75.1	70.7	1	10.0-139			5.53	30
Benzo(a)pyrene	0.0792	U	0.0608	0.0561	76.8	70.5	1	10.0-141			8.04	31
Benzo(b)fluoranthene	0.0792	U	0.0580	0.0529	73.2	66.5	1	10.0-140			9.20	36
Benzo(g,h,i)perylene	0.0792	U	0.0603	0.0558	76.1	70.1	1	10.0-140			7.75	33
Benzo(k)fluoranthene	0.0792	U	0.0622	0.0595	78.5	74.7	1	10.0-137			4.44	31
Chrysene	0.0792	U	0.0700	0.0674	88.4	84.7	1	10.0-145			3.78	30
Dibenz(a,h)anthracene	0.0792	U	0.0561	0.0531	70.8	66.7	1	10.0-132			5.49	31
Fluoranthene	0.0792	U	0.0665	0.0610	84.0	76.6	1	10.0-153			8.63	33
Fluorene	0.0792	U	0.0647	0.0599	81.7	75.3	1	11.0-130			7.70	29
Indeno(1,2,3-cd)pyrene	0.0792	U	0.0543	0.0521	68.6	65.5	1	10.0-137			4.14	32
Naphthalene	0.0792	U	0.0614	0.0573	77.5	72.0	1	10.0-135			6.91	27
Phenanthrene	0.0792	U	0.0570	0.0513	72.0	64.4	1	10.0-144			10.5	31
Pyrene	0.0792	U	0.0636	0.0585	80.3	73.5	1	10.0-148			8.35	35
1-Methylnaphthalene	0.0792	U	0.0696	0.0653	87.9	82.0	1	10.0-142			6.38	28
2-Methylnaphthalene	0.0792	U	0.0627	0.0594	79.2	74.6	1	10.0-137			5.41	28
2-Chloronaphthalene	0.0792	U	0.0603	0.0555	76.1	69.7	1	29.0-120			8.29	24
(S) Nitrobenzene-d5					*83.1*	*84.2*		*14.0-149*				
(S) 2-Fluorobiphenyl					*87.5*	*82.0*		*34.0-125*				
(S) p-Terphenyl-d14					*104*	*97.2*		*23.0-120*				

Method Blank (MB)

(MB) R3671451-2 06/23/21 19:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*64.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*77.6*			*34.0-125*
(S) p-Terphenyl-d14	*97.8*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3671451-1 06/23/21 19:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0644	80.5	50.0-126	
Acenaphthene	0.0800	0.0595	74.4	50.0-120	
Acenaphthylene	0.0800	0.0653	81.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0676	84.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0543	67.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0627	78.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0600	75.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0632	79.0	49.0-125	
Chrysene	0.0800	0.0631	78.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0637	79.6	47.0-125	
Fluoranthene	0.0800	0.0663	82.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3671451-1 06/23/21 19:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0661	82.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0637	79.6	46.0-125	
Naphthalene	0.0800	0.0564	70.5	50.0-120	
Phenanthrene	0.0800	0.0629	78.6	47.0-120	
Pyrene	0.0800	0.0605	75.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0615	76.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0600	75.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0620	77.5	50.0-120	
(S) Nitrobenzene-d5			*71.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*78.1*	*34.0-125*	
(S) p-Terphenyl-d14			*93.2*	*23.0-120*	

L1367677-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1367677-09 06/23/21 19:52 • (MS) R3671451-3 06/23/21 20:10 • (MSD) R3671451-4 06/23/21 20:27

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 %
Anthracene	0.0796	U	0.0669	0.0645	84.0	81.9	1	10.0-145			3.65	30
Acenaphthene	0.0796	U	0.0615	0.0608	77.3	77.2	1	14.0-127			1.14	27
Acenaphthylene	0.0796	U	0.0662	0.0648	83.2	82.2	1	21.0-124			2.14	25
Benzo(a)anthracene	0.0796	U	0.0677	0.0647	85.1	82.1	1	10.0-139			4.53	30
Benzo(a)pyrene	0.0796	U	0.0641	0.0613	80.5	77.8	1	10.0-141			4.47	31
Benzo(b)fluoranthene	0.0796	U	0.0628	0.0602	78.9	76.4	1	10.0-140			4.23	36
Benzo(g,h,i)perylene	0.0796	U	0.0626	0.0612	78.6	77.7	1	10.0-140			2.26	33
Benzo(k)fluoranthene	0.0796	U	0.0634	0.0610	79.6	77.4	1	10.0-137			3.86	31
Chrysene	0.0796	U	0.0642	0.0619	80.7	78.6	1	10.0-145			3.65	30
Dibenz(a,h)anthracene	0.0796	U	0.0656	0.0633	82.4	80.3	1	10.0-132			3.57	31
Fluoranthene	0.0796	U	0.0667	0.0643	83.8	81.6	1	10.0-153			3.66	33
Fluorene	0.0796	U	0.0682	0.0649	85.7	82.4	1	11.0-130			4.96	29
Indeno(1,2,3-cd)pyrene	0.0796	U	0.0663	0.0641	83.3	81.3	1	10.0-137			3.37	32
Naphthalene	0.0796	U	0.0551	0.0552	69.2	70.1	1	10.0-135			0.181	27
Phenanthrene	0.0796	U	0.0644	0.0623	80.9	79.1	1	10.0-144			3.31	31
Pyrene	0.0796	U	0.0643	0.0618	80.8	78.4	1	10.0-148			3.97	35
1-Methylnaphthalene	0.0796	U	0.0562	0.0580	70.6	73.6	1	10.0-142			3.15	28
2-Methylnaphthalene	0.0796	U	0.0526	0.0533	66.1	67.6	1	10.0-137			1.32	28
2-Chloronaphthalene	0.0796	U	0.0609	0.0604	76.5	76.6	1	29.0-120			0.824	24
(S) Nitrobenzene-d5					*72.9*	*74.9*		*14.0-149*				
(S) 2-Fluorobiphenyl					*77.3*	*82.5*		*34.0-125*				
(S) p-Terphenyl-d14					*91.8*	*94.0*		*23.0-120*				

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
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.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute~~, CO Debeque

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1367833
F128
Table #
Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR						Rem./Contaminant	Sample # (lab only)
20210616-TexacoFee-62-14-SB4 (5-7)	Grab	SS	5-7	6/16/21	0930	2	X	X	X	X	X							-01
20210616-Texaco Fee-62-14-SB4 (10-12)			10-12		0945	2	X	X	X	X	X							-02
20210616-Texaco Fee-62-14-SB4 (15-17)			15-17		1000	2	X	X	X	X	X							-03
20210616-TexacoFee-62-14-SB4 (20-22)			20-22		1030	2	X	X	X	X	X							-04
20210616-Texaco Fee-62-14-SB4 (25-27)			25-27		1055	2	X	X	X	X	X							-05
20210616-Texaco Fee-62-14-SB4 (30-32)			30-32		1120	2	X	X	X	X	X							-06
20210616-TexacoFee-62-14-SB4 (35-37)			35-37		1150	2	X	X	X	X	X							-07
20210616-TexacoFee-62-14-SB4 (40-42)			40-42		1330	2	X	X	X	X	X							-08
20210616-Texaco Fee-62-14-SB4 (45-47)			45-47		1315	2	X	X	X	X	X							-09
20210616-TexacoFee-62-14-SB4 (50-52)			50-52		1415	2	X	X	X	X	X							-10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	6/16/21	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2-3 °C Bottles Received: 22	COC Seal Intact: ____Y ____N ____NA
	6/16/21	1800			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/21 Time: 9:15	pH Checked: NCF:

Company Name/Address:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute,~~ CO Debeque

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1367833

Table #

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR					Rem./Contaminant	Sample # (lab only)
20210616-Texaco Fee-62-14 SB4 (55-57)	Grab	SS	55-57'	6/16/21	1515	2	X	X	X	X	X						-14

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N

If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	6/16/21	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2-.3 °C Bottles Received: 22	COC Seal Intact: ____Y ____N ✓NA
	6/16/21	1730			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6-17-21 Time: 9:15	pH Checked: NCF:

ANALYTICAL REPORT

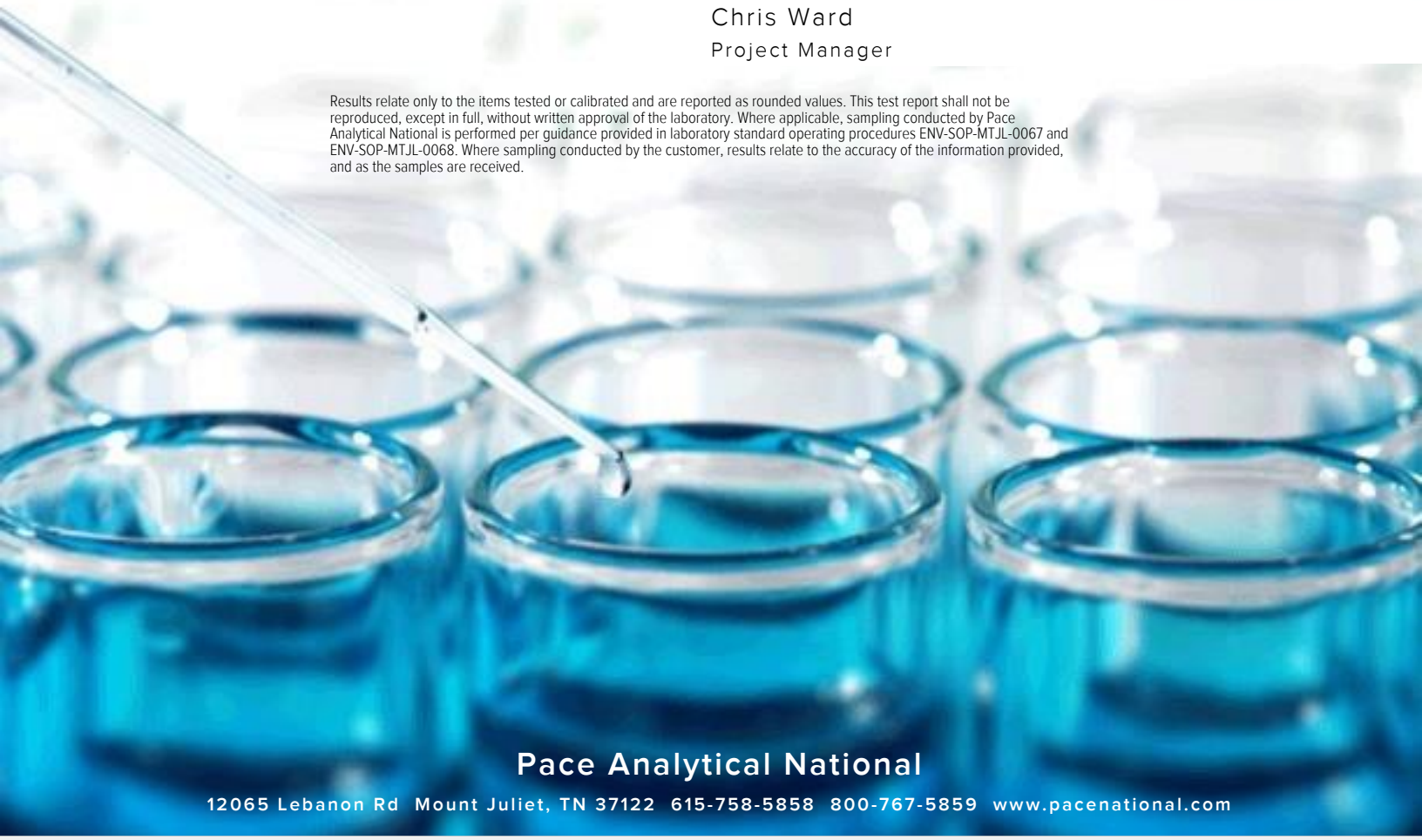
July 07, 2021

Caerus Oil and Gas

Sample Delivery Group:	L1368368
Samples Received:	06/18/2021
Project Number:	
Description:	Texaco Dee 62-14
Report To:	Jake Janicek 143 Diamond Avenue Parachute, CO 81635

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



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

TABLE OF CONTENTS

20210617-TEXACOFEC 62-14 SB5 (5-7) L1368368-01 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 11:25 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 21:59	06/29/21 21:59	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 07:31	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:23	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:23	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:39	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 21:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 11:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692404	1	06/20/21 10:23	06/21/21 13:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1691991	1	06/21/21 10:33	06/22/21 05:35	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 21:20	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (10-132) L1368368-02 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 11:40 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 22:08	06/29/21 22:08	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 07:36	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:26	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:26	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 21:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 11:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692404	1	06/20/21 10:23	06/21/21 13:40	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/22/21 10:16	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 21:01	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (15-17) L1368368-03 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 11:50 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 22:11	06/29/21 22:11	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 07:41	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 16:38	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:29	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 00:53	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 21:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 12:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692404	1	06/20/21 10:23	06/21/21 13:59	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/23/21 07:31	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 20:41	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (20-22) L1368368-04 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 12:15 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 22:14	06/29/21 22:14	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1692865	1	06/22/21 10:00	06/24/21 07:46	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:29	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:32	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 22:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 12:20	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692404	1	06/20/21 10:23	06/21/21 14:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/23/21 07:57	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 20:21	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (25-27) L1368368-05 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 12:45 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 22:16	06/29/21 22:16	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1693570	1	06/23/21 12:04	06/24/21 12:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:33	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:35	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:48	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 22:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 12:39	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/23/21 07:44	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 20:01	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (30-32) L1368368-06 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 13:10 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1694270	1	07/03/21 00:37	07/03/21 00:37	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1693570	1	06/23/21 12:04	06/24/21 12:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:36	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1694271	1	06/28/21 13:03	06/30/21 23:44	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:52	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 22:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 12:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/22/21 10:42	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 19:41	LEA	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (35-37) L1368368-07 Solid

Collected by: Reed Johnson | Collected date/time: 06/07/21 13:45 | Received date/time: 06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1693086	1	06/29/21 22:19	06/29/21 22:19	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1693570	1	06/23/21 12:04	06/24/21 12:47	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1693923	1	06/25/21 08:00	06/25/21 12:00	GJA	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1692207	1	06/22/21 02:38	06/22/21 06:44	ARD	Mt. Juliet, TN

20210617-TEXACOFEC 62-14 SB5 (35-37) L1368368-07 Solid

Collected by	Collected date/time	Received date/time
Reed Johnson	06/07/21 13:45	06/18/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1693482	1	06/23/21 18:35	06/27/21 17:39	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1693079	1	06/26/21 10:30	07/01/21 01:38	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1693484	5	06/23/21 18:43	06/25/21 01:55	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1692670	1	06/20/21 10:23	06/21/21 23:23	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692007	1	06/20/21 10:23	06/20/21 13:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1692431	1	06/21/21 12:33	06/22/21 10:56	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1691985	1	06/20/21 19:01	06/21/21 19:21	LEA	Mt. Juliet, TN

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.

Chris Ward

Chris Ward
Project Manager

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.46		1	06/29/2021 21:59	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 07:31	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.26	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-01 WG1693923: 9.26 at 25.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	274		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	249		0.0852	0.500	1	06/27/2021 17:23	WG1693482
Cadmium	0.293	J	0.0471	0.500	1	06/27/2021 17:23	WG1693482
Copper	11.3		0.400	2.00	1	06/27/2021 17:23	WG1693482
Lead	7.48		0.208	0.500	1	06/27/2021 17:23	WG1693482
Nickel	17.2		0.132	2.00	1	06/27/2021 17:23	WG1693482
Selenium	2.07		0.764	2.00	1	06/27/2021 17:23	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:23	WG1693482
Zinc	47.2		0.832	5.00	1	06/27/2021 17:23	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.395		0.0167	0.200	1	07/01/2021 01:23	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.7		0.100	1.00	5	06/25/2021 01:39	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0725	B J	0.0217	0.100	1	06/21/2021 21:00	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*06/21/2021 21:00*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000550	J	0.000467	0.00100	1	06/20/2021 11:22	WG1692007
Toluene	0.00158	J	0.00130	0.00500	1	06/20/2021 11:22	WG1692007
Ethylbenzene	0.00295		0.000737	0.00250	1	06/20/2021 11:22	WG1692007
Xylenes, Total	0.00573	J	0.000880	0.00650	1	06/20/2021 11:22	WG1692007
1,2,4-Trimethylbenzene	0.00160	J	0.00158	0.00500	1	06/21/2021 13:21	WG1692404
1,3,5-Trimethylbenzene	0.00328	J	0.00200	0.00500	1	06/20/2021 11:22	WG1692007
(S) Toluene-d8	*100*			*75.0-131*		*06/20/2021 11:22*	WG1692007
(S) Toluene-d8	*107*			*75.0-131*		*06/21/2021 13:21*	WG1692404
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*		*06/20/2021 11:22*	WG1692007
(S) 4-Bromofluorobenzene	*91.2*			*67.0-138*		*06/21/2021 13:21*	WG1692404
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*06/20/2021 11:22*	WG1692007
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*06/21/2021 13:21*	WG1692404

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.24		1.61	4.00	1	06/22/2021 05:35	WG1691991
C28-C36 Motor Oil Range	28.0		0.274	4.00	1	06/22/2021 05:35	WG1691991
(S) o-Terphenyl	*30.7*			*18.0-148*		*06/22/2021 05:35*	WG1691991

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 21:20	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 21:20	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 21:20	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 21:20	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 21:20	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 21:20	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 21:20	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 21:20	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 21:20	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 21:20	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 21:20	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 21:20	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 21:20	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 21:20	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 21:20	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 21:20	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 21:20	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 21:20	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 21:20	WG1691985
(S) p-Terphenyl-d14	*108*			*23.0-120*		*06/21/2021 21:20*	WG1691985
(S) Nitrobenzene-d5	*52.2*			*14.0-149*		*06/21/2021 21:20*	WG1691985
(S) 2-Fluorobiphenyl	*71.2*			*34.0-125*		*06/21/2021 21:20*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.41		1	06/29/2021 22:08	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 07:36	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.16	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-02 WG1693923: 9.16 at 25.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	301		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	287		0.0852	0.500	1	06/27/2021 17:26	WG1693482
Cadmium	0.312	J	0.0471	0.500	1	06/27/2021 17:26	WG1693482
Copper	13.4		0.400	2.00	1	06/27/2021 17:26	WG1693482
Lead	7.54		0.208	0.500	1	06/27/2021 17:26	WG1693482
Nickel	13.3		0.132	2.00	1	06/27/2021 17:26	WG1693482
Selenium	2.00		0.764	2.00	1	06/27/2021 17:26	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:26	WG1693482
Zinc	36.9		0.832	5.00	1	06/27/2021 17:26	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.313		0.0167	0.200	1	07/01/2021 01:26	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.48		0.100	1.00	5	06/25/2021 01:42	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0831	B J	0.0217	0.100	1	06/21/2021 21:24	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-120*		*06/21/2021 21:24*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 11:41	WG1692007
Toluene	U		0.00130	0.00500	1	06/20/2021 11:41	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 11:41	WG1692007
Xylenes, Total	0.00328	J	0.000880	0.00650	1	06/20/2021 11:41	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/21/2021 13:40	WG1692404
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 11:41	WG1692007
(S) Toluene-d8	*107*			*75.0-131*		*06/20/2021 11:41*	WG1692007
(S) Toluene-d8	*106*			*75.0-131*		*06/21/2021 13:40*	WG1692404
(S) 4-Bromofluorobenzene	*86.1*			*67.0-138*		*06/20/2021 11:41*	WG1692007
(S) 4-Bromofluorobenzene	*86.9*			*67.0-138*		*06/21/2021 13:40*	WG1692404
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*		*06/20/2021 11:41*	WG1692007
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/21/2021 13:40*	WG1692404

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.0		1.61	4.00	1	06/22/2021 10:16	WG1692431
C28-C36 Motor Oil Range	50.2		0.274	4.00	1	06/22/2021 10:16	WG1692431
(S) o-Terphenyl	*48.9*			*18.0-148*		*06/22/2021 10:16*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 21:01	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 21:01	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 21:01	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 21:01	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 21:01	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 21:01	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 21:01	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 21:01	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 21:01	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 21:01	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 21:01	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 21:01	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 21:01	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 21:01	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 21:01	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 21:01	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 21:01	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 21:01	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 21:01	WG1691985
(S) p-Terphenyl-d14	*117*			*23.0-120*		*06/21/2021 21:01*	WG1691985
(S) Nitrobenzene-d5	*75.4*			*14.0-149*		*06/21/2021 21:01*	WG1691985
(S) 2-Fluorobiphenyl	*87.0*			*34.0-125*		*06/21/2021 21:01*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.26		1	06/29/2021 22:11	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 07:41	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.95	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-03 WG1693923: 8.95 at 25.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	259		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	316	J6 O1	0.0852	0.500	1	06/27/2021 16:38	WG1693482
Cadmium	0.272	J	0.0471	0.500	1	06/27/2021 16:38	WG1693482
Copper	13.4		0.400	2.00	1	06/27/2021 16:38	WG1693482
Lead	7.52		0.208	0.500	1	06/27/2021 16:38	WG1693482
Nickel	17.1		0.132	2.00	1	06/27/2021 16:38	WG1693482
Selenium	1.06	J	0.764	2.00	1	06/27/2021 16:38	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 16:38	WG1693482
Zinc	40.0	J6 O1	0.832	5.00	1	06/27/2021 16:38	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.342		0.0167	0.200	1	07/01/2021 01:29	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.10		0.100	1.00	5	06/25/2021 00:53	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.147	B	0.0217	0.100	1	06/21/2021 21:48	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*06/21/2021 21:48*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 12:00	WG1692007
Toluene	0.00153	J	0.00130	0.00500	1	06/20/2021 12:00	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 12:00	WG1692007
Xylenes, Total	0.00117	J	0.000880	0.00650	1	06/20/2021 12:00	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/21/2021 13:59	WG1692404
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 12:00	WG1692007
(S) Toluene-d8	*105*			*75.0-131*		*06/20/2021 12:00*	WG1692007
(S) Toluene-d8	*109*			*75.0-131*		*06/21/2021 13:59*	WG1692404
(S) 4-Bromofluorobenzene	*87.8*			*67.0-138*		*06/20/2021 12:00*	WG1692007
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*06/21/2021 13:59*	WG1692404
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*06/20/2021 12:00*	WG1692007
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*06/21/2021 13:59*	WG1692404

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.78		1.61	4.00	1	06/23/2021 07:31	WG1692431
C28-C36 Motor Oil Range	50.2		0.274	4.00	1	06/23/2021 07:31	WG1692431
(S) o-Terphenyl	*52.6*			*18.0-148*		*06/23/2021 07:31*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 20:41	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 20:41	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 20:41	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 20:41	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 20:41	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 20:41	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 20:41	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 20:41	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 20:41	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 20:41	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 20:41	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 20:41	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 20:41	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 20:41	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 20:41	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 20:41	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 20:41	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 20:41	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 20:41	WG1691985
(S) p-Terphenyl-d14	*96.7*			*23.0-120*		*06/21/2021 20:41*	WG1691985
(S) Nitrobenzene-d5	*52.1*			*14.0-149*		*06/21/2021 20:41*	WG1691985
(S) 2-Fluorobiphenyl	*67.6*			*34.0-125*		*06/21/2021 20:41*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.68		1	06/29/2021 22:14	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 07:46	WG1692865

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.25	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-04 WG1693923: 9.25 at 25.5C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	341		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	306		0.0852	0.500	1	06/27/2021 17:29	WG1693482
Cadmium	0.317	J	0.0471	0.500	1	06/27/2021 17:29	WG1693482
Copper	13.2		0.400	2.00	1	06/27/2021 17:29	WG1693482
Lead	6.10		0.208	0.500	1	06/27/2021 17:29	WG1693482
Nickel	12.8		0.132	2.00	1	06/27/2021 17:29	WG1693482
Selenium	0.853	J	0.764	2.00	1	06/27/2021 17:29	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:29	WG1693482
Zinc	37.3		0.832	5.00	1	06/27/2021 17:29	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.303		0.0167	0.200	1	07/01/2021 01:32	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.33		0.100	1.00	5	06/25/2021 01:45	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.146	B	0.0217	0.100	1	06/21/2021 22:12	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*06/21/2021 22:12*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 12:20	WG1692007
Toluene	0.00183	J	0.00130	0.00500	1	06/20/2021 12:20	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 12:20	WG1692007
Xylenes, Total	0.00123	J	0.000880	0.00650	1	06/20/2021 12:20	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/21/2021 14:18	WG1692404
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 12:20	WG1692007
(S) Toluene-d8	*106*			*75.0-131*		*06/20/2021 12:20*	WG1692007
(S) Toluene-d8	*110*			*75.0-131*		*06/21/2021 14:18*	WG1692404
(S) 4-Bromofluorobenzene	*88.2*			*67.0-138*		*06/20/2021 12:20*	WG1692007
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*06/21/2021 14:18*	WG1692404
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*06/20/2021 12:20*	WG1692007
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/21/2021 14:18*	WG1692404

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	37.5		1.61	4.00	1	06/23/2021 07:57	WG1692431
C28-C36 Motor Oil Range	144		0.274	4.00	1	06/23/2021 07:57	WG1692431
(S) o-Terphenyl	*52.3*			*18.0-148*		*06/23/2021 07:57*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 20:21	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 20:21	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 20:21	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 20:21	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 20:21	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 20:21	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 20:21	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 20:21	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 20:21	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 20:21	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 20:21	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 20:21	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 20:21	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 20:21	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 20:21	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 20:21	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 20:21	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 20:21	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 20:21	WG1691985
(S) p-Terphenyl-d14	*110*			*23.0-120*		*06/21/2021 20:21*	WG1691985
(S) Nitrobenzene-d5	*65.3*			*14.0-149*		*06/21/2021 20:21*	WG1691985
(S) 2-Fluorobiphenyl	*74.8*			*34.0-125*		*06/21/2021 20:21*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.02		1	06/29/2021 22:16	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 12:10	WG1693570

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.47	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-05 WG1693923: 8.47 at 25.7C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	858		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	311		0.0852	0.500	1	06/27/2021 17:33	WG1693482
Cadmium	0.323	J	0.0471	0.500	1	06/27/2021 17:33	WG1693482
Copper	14.0		0.400	2.00	1	06/27/2021 17:33	WG1693482
Lead	7.42		0.208	0.500	1	06/27/2021 17:33	WG1693482
Nickel	12.9		0.132	2.00	1	06/27/2021 17:33	WG1693482
Selenium	1.93	J	0.764	2.00	1	06/27/2021 17:33	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:33	WG1693482
Zinc	37.2		0.832	5.00	1	06/27/2021 17:33	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.258		0.0167	0.200	1	07/01/2021 01:35	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.00		0.100	1.00	5	06/25/2021 01:48	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.178	B	0.0217	0.100	1	06/21/2021 22:35	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*06/21/2021 22:35*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 12:39	WG1692007
Toluene	U		0.00130	0.00500	1	06/20/2021 12:39	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 12:39	WG1692007
Xylenes, Total	U		0.000880	0.00650	1	06/20/2021 12:39	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/20/2021 12:39	WG1692007
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 12:39	WG1692007
(S) Toluene-d8	*104*			*75.0-131*		*06/20/2021 12:39*	WG1692007
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*06/20/2021 12:39*	WG1692007
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/20/2021 12:39*	WG1692007

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.2		1.61	4.00	1	06/23/2021 07:44	WG1692431
C28-C36 Motor Oil Range	75.6		0.274	4.00	1	06/23/2021 07:44	WG1692431
(S) o-Terphenyl	*44.0*			*18.0-148*		*06/23/2021 07:44*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 20:01	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 20:01	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 20:01	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 20:01	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 20:01	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 20:01	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 20:01	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 20:01	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 20:01	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 20:01	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 20:01	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 20:01	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 20:01	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 20:01	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 20:01	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 20:01	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 20:01	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 20:01	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 20:01	WG1691985
(S) p-Terphenyl-d14	*107*			*23.0-120*		*06/21/2021 20:01*	WG1691985
(S) Nitrobenzene-d5	*62.6*			*14.0-149*		*06/21/2021 20:01*	WG1691985
(S) 2-Fluorobiphenyl	*72.0*			*34.0-125*		*06/21/2021 20:01*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.27		1	07/03/2021 00:37	WG1694270

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U	J6	0.255	1.00	1	06/24/2021 12:21	WG1693570

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-06 WG1693923: 8.35 at 25.8C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1000		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	323		0.0852	0.500	1	06/27/2021 17:36	WG1693482
Cadmium	0.327	J	0.0471	0.500	1	06/27/2021 17:36	WG1693482
Copper	16.2		0.400	2.00	1	06/27/2021 17:36	WG1693482
Lead	7.28		0.208	0.500	1	06/27/2021 17:36	WG1693482
Nickel	16.0		0.132	2.00	1	06/27/2021 17:36	WG1693482
Selenium	2.33		0.764	2.00	1	06/27/2021 17:36	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:36	WG1693482
Zinc	50.8		0.832	5.00	1	06/27/2021 17:36	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.286		0.0167	0.200	1	06/30/2021 23:44	WG1694271

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.38		0.100	1.00	5	06/25/2021 01:52	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.217	B	0.0217	0.100	1	06/21/2021 22:59	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*77.0-120*		*06/21/2021 22:59*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 12:58	WG1692007
Toluene	U		0.00130	0.00500	1	06/20/2021 12:58	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 12:58	WG1692007
Xylenes, Total	U		0.000880	0.00650	1	06/20/2021 12:58	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/20/2021 12:58	WG1692007
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 12:58	WG1692007
(S) Toluene-d8	*104*			*75.0-131*		*06/20/2021 12:58*	WG1692007
(S) 4-Bromofluorobenzene	*88.3*			*67.0-138*		*06/20/2021 12:58*	WG1692007
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*06/20/2021 12:58*	WG1692007

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	16.0		1.61	4.00	1	06/22/2021 10:42	WG1692431
C28-C36 Motor Oil Range	49.1		0.274	4.00	1	06/22/2021 10:42	WG1692431
(S) o-Terphenyl	*53.7*			*18.0-148*		*06/22/2021 10:42*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 19:41	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 19:41	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 19:41	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 19:41	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 19:41	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 19:41	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 19:41	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 19:41	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 19:41	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 19:41	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 19:41	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 19:41	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 19:41	WG1691985
Naphthalene	0.00430	J	0.00408	0.0200	1	06/21/2021 19:41	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 19:41	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 19:41	WG1691985
1-Methylnaphthalene	0.00563	J	0.00449	0.0200	1	06/21/2021 19:41	WG1691985
2-Methylnaphthalene	0.00848	J	0.00427	0.0200	1	06/21/2021 19:41	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 19:41	WG1691985
(S) p-Terphenyl-d14	*103*			*23.0-120*		*06/21/2021 19:41*	WG1691985
(S) Nitrobenzene-d5	*63.9*			*14.0-149*		*06/21/2021 19:41*	WG1691985
(S) 2-Fluorobiphenyl	*74.8*			*34.0-125*		*06/21/2021 19:41*	WG1691985

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.13		1	06/29/2021 22:19	WG1693086

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	06/24/2021 12:47	WG1693570

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46	T8	1	06/25/2021 12:00	WG1693923

Sample Narrative:

L1368368-07 WG1693923: 8.46 at 26.1C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	870		10.0	1	06/22/2021 06:44	WG1692207

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	315		0.0852	0.500	1	06/27/2021 17:39	WG1693482
Cadmium	0.531		0.0471	0.500	1	06/27/2021 17:39	WG1693482
Copper	14.4		0.400	2.00	1	06/27/2021 17:39	WG1693482
Lead	6.45		0.208	0.500	1	06/27/2021 17:39	WG1693482
Nickel	12.1		0.132	2.00	1	06/27/2021 17:39	WG1693482
Selenium	1.90	J	0.764	2.00	1	06/27/2021 17:39	WG1693482
Silver	U		0.127	1.00	1	06/27/2021 17:39	WG1693482
Zinc	37.9		0.832	5.00	1	06/27/2021 17:39	WG1693482

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.210		0.0167	0.200	1	07/01/2021 01:38	WG1693079

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.90		0.100	1.00	5	06/25/2021 01:55	WG1693484

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.224	B	0.0217	0.100	1	06/21/2021 23:23	WG1692670
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-120*		*06/21/2021 23:23*	WG1692670

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	06/20/2021 13:17	WG1692007
Toluene	U		0.00130	0.00500	1	06/20/2021 13:17	WG1692007
Ethylbenzene	U		0.000737	0.00250	1	06/20/2021 13:17	WG1692007
Xylenes, Total	U		0.000880	0.00650	1	06/20/2021 13:17	WG1692007
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	06/20/2021 13:17	WG1692007
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	06/20/2021 13:17	WG1692007
(S) Toluene-d8	*105*			*75.0-131*		*06/20/2021 13:17*	WG1692007
(S) 4-Bromofluorobenzene	*91.7*			*67.0-138*		*06/20/2021 13:17*	WG1692007
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*		*06/20/2021 13:17*	WG1692007

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	24.2		1.61	4.00	1	06/22/2021 10:56	WG1692431
C28-C36 Motor Oil Range	78.8		0.274	4.00	1	06/22/2021 10:56	WG1692431
(S) o-Terphenyl	*54.8*			*18.0-148*		*06/22/2021 10:56*	WG1692431

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	06/21/2021 19:21	WG1691985
Acenaphthene	U		0.00209	0.00600	1	06/21/2021 19:21	WG1691985
Acenaphthylene	U		0.00216	0.00600	1	06/21/2021 19:21	WG1691985
Benzo(a)anthracene	U		0.00173	0.00600	1	06/21/2021 19:21	WG1691985
Benzo(a)pyrene	U		0.00179	0.00600	1	06/21/2021 19:21	WG1691985
Benzo(b)fluoranthene	U		0.00153	0.00600	1	06/21/2021 19:21	WG1691985
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	06/21/2021 19:21	WG1691985
Benzo(k)fluoranthene	U		0.00215	0.00600	1	06/21/2021 19:21	WG1691985
Chrysene	U		0.00232	0.00600	1	06/21/2021 19:21	WG1691985
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	06/21/2021 19:21	WG1691985
Fluoranthene	U		0.00227	0.00600	1	06/21/2021 19:21	WG1691985
Fluorene	U		0.00205	0.00600	1	06/21/2021 19:21	WG1691985
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	06/21/2021 19:21	WG1691985
Naphthalene	U		0.00408	0.0200	1	06/21/2021 19:21	WG1691985
Phenanthrene	U		0.00231	0.00600	1	06/21/2021 19:21	WG1691985
Pyrene	U		0.00200	0.00600	1	06/21/2021 19:21	WG1691985
1-Methylnaphthalene	U		0.00449	0.0200	1	06/21/2021 19:21	WG1691985
2-Methylnaphthalene	U		0.00427	0.0200	1	06/21/2021 19:21	WG1691985
2-Chloronaphthalene	U		0.00466	0.0200	1	06/21/2021 19:21	WG1691985
(S) p-Terphenyl-d14	*122*	J1		*23.0-120*		*06/21/2021 19:21*	WG1691985
(S) Nitrobenzene-d5	*63.4*			*14.0-149*		*06/21/2021 19:21*	WG1691985
(S) 2-Fluorobiphenyl	*81.6*			*34.0-125*		*06/21/2021 19:21*	WG1691985

QUALITY CONTROL SUMMARY

L1368368-01,02,03,04

Method Blank (MB)

(MB) R3671479-1 06/24/21 05:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1367833-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1367833-07 06/24/21 05:32 • (DUP) R3671479-3 06/24/21 05:37

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1368090-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1368090-05 06/24/21 07:10 • (DUP) R3671479-8 06/24/21 07:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3671479-2 06/24/21 05:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1368090-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1368090-02 06/24/21 06:23 • (MS) R3671479-6 06/24/21 06:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	647	U	596	92.1	50	75.0-125	

L1368090-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368090-02 06/24/21 06:23 • (MS) R3671479-4 06/24/21 06:29 • (MSD) R3671479-5 06/24/21 06:34

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 %
Hexavalent Chromium	20.0	U	9.07	6.38	45.4	31.9	1	75.0-125	J6	J3 J6	34.9	20

QUALITY CONTROL SUMMARY

L1368368-05,06,07

Method Blank (MB)

(MB) R3674131-1 06/24/21 11:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1368368-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1368368-05 06/24/21 12:10 • (DUP) R3674131-3 06/24/21 12:15

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

L1368456-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1368456-01 06/24/21 13:44 • (DUP) R3674131-8 06/24/21 13:49

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3674131-2 06/24/21 12:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	10.7	107	80.0-120	

L1368368-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368368-06 06/24/21 12:21 • (MS) R3674131-4 06/24/21 12:26 • (MSD) R3674131-5 06/24/21 12:31

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 %
Hexavalent Chromium	20.0	U	14.2	11.9	71.1	59.5	1	75.0-125	J6	J6	17.7	20

L1368368-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1368368-06 06/24/21 12:21 • (MS) R3674131-6 06/24/21 12:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	639	U	713	112	50	75.0-125	

Laboratory Control Sample (LCS)

(LCS) R3672172-1 06/25/21 12:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 25.4C

QUALITY CONTROL SUMMARY

L1368368-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3670072-1 06/22/21 06:44

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1368368-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1368368-05 06/22/21 06:44 • (DUP) R3670072-3 06/22/21 06:44

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	858	868	1	1.16		20

L1368673-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1368673-04 06/22/21 06:44 • (DUP) R3670072-4 06/22/21 06:44

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	2920	2850	1	2.56		20

Laboratory Control Sample (LCS)

(LCS) R3670072-2 06/22/21 06:44

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	266	99.2	85.0-115	

Method Blank (MB)

(MB) R3672693-1 06/27/21 16:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	0.106	J	0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3672693-2 06/27/21 16:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	99.3	99.3	80.0-120	
Cadmium	100	93.4	93.4	80.0-120	
Copper	100	95.6	95.6	80.0-120	
Lead	100	92.9	92.9	80.0-120	
Nickel	100	94.7	94.7	80.0-120	
Selenium	100	95.1	95.1	80.0-120	
Silver	20.0	17.6	87.9	80.0-120	
Zinc	100	92.3	92.3	80.0-120	

L1368368-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368368-03 06/27/21 16:38 • (MS) R3672693-5 06/27/21 16:48 • (MSD) R3672693-6 06/27/21 16:51

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 %
Barium	100	316	340	339	24.0	22.5	1	75.0-125	J6	J6	0.438	20
Cadmium	100	0.272	89.3	90.0	89.0	89.7	1	75.0-125			0.742	20
Copper	100	13.4	106	108	92.5	94.6	1	75.0-125			1.96	20
Lead	100	7.52	92.9	93.5	85.3	86.0	1	75.0-125			0.722	20
Nickel	100	17.1	103	105	86.3	87.4	1	75.0-125			1.08	20
Selenium	100	1.06	92.3	92.1	91.2	91.0	1	75.0-125			0.219	20
Silver	20.0	U	17.6	17.7	88.0	88.5	1	75.0-125			0.553	20
Zinc	100	40.0	112	115	71.8	75.1	1	75.0-125	J6		2.88	20

QUALITY CONTROL SUMMARY

L1368368-01,02,03,04,05,07

Method Blank (MB)

(MB) R3674359-1 07/01/21 00:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3674359-2 07/01/21 00:48 • (LCSD) R3674359-3 07/01/21 00:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.987	0.976	98.7	97.6	80.0-120			1.10	20

Method Blank (MB)

(MB) R3674358-1 06/30/21 23:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3674358-2 06/30/21 23:38 • (LCSD) R3674358-3 06/30/21 23:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.08	0.980	108	98.0	80.0-120			10.0	20

QUALITY CONTROL SUMMARY

L1368368-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3671834-1 06/25/21 00:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3671834-2 06/25/21 00:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	83.5	83.5	80.0-120	

L1368368-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368368-03 06/25/21 00:53 • (MS) R3671834-5 06/25/21 01:03 • (MSD) R3671834-6 06/25/21 01:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	8.10	92.4	103	84.3	94.5	5	75.0-125			10.5	20

Method Blank (MB)

(MB) R3670453-2 06/21/21 19:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0335	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3670453-1 06/21/21 19:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.67	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

L1368119-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1368119-01 06/22/21 02:33 • (MS) R3670453-3 06/22/21 04:56 • (MSD) R3670453-4 06/22/21 05:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.91	1.92	4.95	5.50	55.1	65.1	1	10.0-151			10.5	28
(S) a,a,a-Trifluorotoluene(FID)					*109*	*111*		*77.0-120*				

Method Blank (MB)

(MB) R3669731-3 06/20/21 07:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	0.00537		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*102*		*75.0-131*	
(S) 4-Bromofluorobenzene	*86.1*		*67.0-138*	
(S) 1,2-Dichloroethane-d4	*100*		*70.0-130*	

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

(LCS) R3669731-1 06/20/21 06:32 • (LCSD) R3669731-2 06/20/21 06:51

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 %
Benzene	0.125	0.115	0.106	92.0	84.8	70.0-123			8.14	20
Ethylbenzene	0.125	0.111	0.103	88.8	82.4	74.0-126			7.48	20
Toluene	0.125	0.117	0.111	93.6	88.8	75.0-121			5.26	20
1,2,4-Trimethylbenzene	0.125	0.157	0.131	126	105	70.0-126			18.1	20
1,3,5-Trimethylbenzene	0.125	0.127	0.110	102	88.0	73.0-127			14.3	20
Xylenes, Total	0.375	0.342	0.325	91.2	86.7	72.0-127			5.10	20
(S) Toluene-d8				*101*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*89.3*	*91.2*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*117*	*118*	*70.0-130*				

Method Blank (MB)

(MB) R3669935-3 06/21/21 12:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2,4-Trimethylbenzene	U		0.00158	0.00500
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

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

(LCS) R3669935-1 06/21/21 10:57 • (LCSD) R3669935-2 06/21/21 11:16

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 %
1,2,4-Trimethylbenzene	0.125	0.110	0.111	88.0	88.8	70.0-126			0.905	20
(S) Toluene-d8				*105*	*105*	*75.0-131*				
(S) 4-Bromofluorobenzene				*88.4*	*88.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*113*	*114*	*70.0-130*				

Method Blank (MB)

(MB) R3670115-1 06/21/21 22:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*57.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3670115-2 06/21/21 23:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.2	68.4	50.0-150	
(S) o-Terphenyl			*50.2*	*18.0-148*	

L1366327-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1366327-01 06/22/21 03:22 • (MS) R3670115-3 06/22/21 03:35 • (MSD) R3670115-4 06/22/21 03:49

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 %
C10-C28 Diesel Range	48.0	3.75	40.2	37.9	75.9	71.1	1	50.0-150			5.89	20
(S) o-Terphenyl					*46.1*	*44.1*		*18.0-148*				

QUALITY CONTROL SUMMARY

L1368368-02,03,04,05,06,07

Method Blank (MB)

(MB) R3670116-1 06/21/21 21:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	*53.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3670116-2 06/21/21 22:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	31.0	62.0	50.0-150	
(S) o-Terphenyl			*42.8*	*18.0-148*	

L1366222-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1366222-03 06/22/21 07:49 • (MS) R3670116-3 06/22/21 08:02 • (MSD) R3670116-4 06/22/21 08:15

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 %
C10-C28 Diesel Range	48.9	U	31.3	22.8	64.0	46.7	1	50.0-150		J3 J6	31.4	20
(S) o-Terphenyl					*42.0*	*32.0*		*18.0-148*				

Method Blank (MB)

(MB) R3669877-2 06/21/21 13:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*61.5*			*14.0-149*
(S) 2-Fluorobiphenyl	*65.2*			*34.0-125*
(S) p-Terphenyl-d14	*109*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3669877-1 06/21/21 12:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0738	92.3	50.0-126	
Acenaphthene	0.0800	0.0742	92.8	50.0-120	
Acenaphthylene	0.0800	0.0745	93.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0778	97.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0687	85.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0804	101	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0786	98.2	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0771	96.4	49.0-125	
Chrysene	0.0800	0.0810	101	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0777	97.1	47.0-125	
Fluoranthene	0.0800	0.0785	98.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3669877-1 06/21/21 12:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0719	89.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0773	96.6	46.0-125	
Naphthalene	0.0800	0.0679	84.9	50.0-120	
Phenanthrene	0.0800	0.0775	96.9	47.0-120	
Pyrene	0.0800	0.0833	104	43.0-123	
1-Methylnaphthalene	0.0800	0.0725	90.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0676	84.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0712	89.0	50.0-120	
(S) Nitrobenzene-d5			*95.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*100*	*34.0-125*	
(S) p-Terphenyl-d14			*128*	*23.0-120*	J1

L1366456-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1366456-06 06/21/21 16:27 • (MS) R3669877-3 06/21/21 16:44 • (MSD) R3669877-4 06/21/21 17:02

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 %
Anthracene	0.0772	0.0143	0.203	0.0711	244	72.4	1	10.0-145	J5	J3	96.2	30
Acenaphthene	0.0772	0.00619	0.123	0.0705	151	82.0	1	14.0-127	J5	J3	54.3	27
Acenaphthylene	0.0772	U	0.0683	0.0667	88.5	85.1	1	21.0-124			2.37	25
Benzo(a)anthracene	0.0772	0.0693	0.498	0.120	555	64.7	1	10.0-139	J5	J3	122	30
Benzo(a)pyrene	0.0772	0.0783	0.415	0.142	436	81.3	1	10.0-141	J5	J3	98.0	31
Benzo(b)fluoranthene	0.0772	0.137	0.611	0.207	614	89.3	1	10.0-140	J5	J3	98.8	36
Benzo(g,h,i)perylene	0.0772	0.0735	0.335	0.147	339	93.8	1	10.0-140	J5	J3	78.0	33
Benzo(k)fluoranthene	0.0772	0.0483	0.289	0.123	312	95.3	1	10.0-137	J5	J3	80.6	31
Chrysene	0.0772	0.0730	0.543	0.173	609	128	1	10.0-145	J5	J3	103	30
Dibenz(a,h)anthracene	0.0772	0.0154	0.135	0.0807	155	83.3	1	10.0-132	J5	J3	50.3	31
Fluoranthene	0.0772	0.182	1.05	0.266	1120	107	1	10.0-153	J5	J3	119	33
Fluorene	0.0772	0.00382	0.122	0.0669	153	80.5	1	11.0-130	J5	J3	58.3	29
Indeno(1,2,3-cd)pyrene	0.0772	0.0723	0.346	0.142	355	88.9	1	10.0-137	J5	J3	83.6	32
Naphthalene	0.0772	U	0.0640	0.0633	82.9	80.7	1	10.0-135			1.10	27
Phenanthrene	0.0772	0.0814	0.782	0.152	908	90.1	1	10.0-144	J5	J3	135	31
Pyrene	0.0772	0.149	0.811	0.228	858	101	1	10.0-148	J5	J3	112	35
1-Methylnaphthalene	0.0772	U	0.0730	0.0663	94.6	84.6	1	10.0-142			9.62	28
2-Methylnaphthalene	0.0772	U	0.0666	0.0625	86.3	79.7	1	10.0-137			6.35	28
2-Chloronaphthalene	0.0772	U	0.0643	0.0646	83.2	82.4	1	29.0-120			0.465	24
(S) Nitrobenzene-d5					*82.2*	*68.4*		*14.0-149*				
(S) 2-Fluorobiphenyl					*87.2*	*78.0*		*34.0-125*				
(S) p-Terphenyl-d14					*118*	*107*		*23.0-120*				

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
B	The same analyte is found in the associated blank.
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.
J3	The associated batch QC was outside the established quality control range for precision.
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.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.

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:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Billing Information:
Caerus Oil and Gas
143 Diamond Ave.
Parachute, CO 81635

Report to: **Blair Rollins**

Email To: brollins@caerusoilandgas.com

Project Description: Texaco Fee 62-14

City/State Collected: ~~Parachute~~, CO Delta

Phone: **(970) 640-6919**
Fax:

Client Project #

Lab Project #

Collected by (print): Reed Johnson

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1368368
Table D192
Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOCs	Table 915 pH, SPCON, SAR					Rem./Contaminant	Sample # (lab only)
20210617-Texaco Fee 62-14 SBS (5-7)	Grab	SS	5-7	6/17/21	1125	2	X	X	X	X	X						-01
20210617-Texaco Fee 62-14 SBS (10-12)			10-12		1140	2	X	X	X	X	X						02
20210617-Texaco Fee 62-14 SBS (15-17)			15-17		1150	2	X	X	X	X	X						03
20210617-Texaco Fee 62-14 SBS (20-22)			20-22		1215	2	X	X	X	X	X						04
20210617-Texaco Fee 62-14 SBS (25-27)			25-27		1245	2	X	X	X	X	X						05
20210617-Texaco Fee 62-14 SBS (30-32)			30-32		1310	2	X	X	X	X	X						06
20210617-Texaco Fee 62-14 SBS (35-37)			35-37		1345	2	X	X	X	X	X						07

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: ✓Y__N
Bottles arrive intact: ✓Y__N
Correct bottles used: ✓Y__N
Sufficient volume sent: ✓Y__N
RAD Screen <0.5 mR/hr: ✓Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drink...

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	6/17/21	1600			OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7 to 2.7 °C Bottles Received: 14	COC Seal Intact: ____Y ____N ✓NA
	6/17/21	1700			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/18/21 Time: 9.00	pH Checked: NCF:

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Est. 1970

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Report Summary

Tuesday June 10, 2014

Report Number: L703196
Samples Received: 06/06/14
Client Project: HOLLIS 6207

Description: HOLLIS 6207 Backgrounds

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Alan Harvill

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-01

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGN 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.9	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-02

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGN 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.9	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-03

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGN 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.5	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-04

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGN 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.6	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-05

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGN 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.2	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-06

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGE 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.0	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-07

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGE 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.6	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-08

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGE 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.2	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-09

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGE 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.7	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-10

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGE 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-11

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGMID 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.3	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-12

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGMID 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-13

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGMID 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.4	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
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June 10, 2014

ESC Sample # : L703196-14

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGMID 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.1	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-15

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGMID 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.0	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-16

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGW 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.6	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-17

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGW 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.7	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-18

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGW 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.8	2.0	mg/kg	6010B	06/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-19

Site ID : HOLLIS 6207

Project # : HOLLIS 6207

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Sample ID : 20140605-HOLLIS 6207 BGW 12IN

Collected By : Matt Kasten
Collection Date : 06/05/14 08:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.3	2.0	mg/kg	6010B	06/09/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-20

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGW 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	16.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-21

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGS 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-22

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGS 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	22.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-23

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGS 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-24

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGS 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

June 10, 2014

ESC Sample # : L703196-25

Date Received : June 06, 2014
Description : HOLLIS 6207 Backgrounds

Site ID : HOLLIS 6207

Sample ID : 20140605-HOLLIS 6207 BGS 12IN

Project # : HOLLIS 6207

Collected By : Matt Kasten
Collection Date : 06/05/14 08:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	2.0	mg/kg	6010B	06/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/10/14 15:56 Printed: 06/10/14 15:57

Summary of Remarks For Samples Printed
06/10/14 at 15:57:28

TSR Signing Reports: 358
R5 - Desired TAT

Log all PAHs as PAHSIM. Log all BTEX waters by 8260. Log ALL samples for EDD (COGCC EDD).

Sample: L703196-01 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56

Sample: L703196-02 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -01
Sample: L703196-03 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -01
Sample: L703196-04 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -01
Sample: L703196-05 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -01
Sample: L703196-06 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56

Sample: L703196-07 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -06
Sample: L703196-08 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -06
Sample: L703196-09 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -06
Sample: L703196-10 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -06
Sample: L703196-11 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56

Sample: L703196-12 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -11
Sample: L703196-13 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -11
Sample: L703196-14 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -11
Sample: L703196-15 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -11
Sample: L703196-16 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56

Sample: L703196-17 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -16
Sample: L703196-18 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -16
Sample: L703196-19 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -16
Sample: L703196-20 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -16
Sample: L703196-21 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56

Sample: L703196-22 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -21
Sample: L703196-23 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -21
Sample: L703196-24 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -21
Sample: L703196-25 Account: ENCANACO Received: 06/06/14 09:00 Due Date: 06/13/14 00:00 RPT Date: 06/10/14 15:56
Use Container from -21