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Mr. Darryl R. Burgess, CSHM, CESCO
Jenesis Development LLC
1150 Niagara Street
Buffalo, NY 14213

Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Property
1112 and 1114 Niagara Street, Buffalo, New York

Dear Mr. Burgess,

GHD is pleased to submit this letter report to Jenesis Development LLC (Jenesis) summarizing the results of the Limited Phase II Environmental Site Assessment (Phase II ESA) conducted at the Former Oliver Gear and Modern Heat Treating property located at 1112 and 1114 Niagara Street in Buffalo, New York (Site). The Limited Phase II ESA was conducted to evaluate potential impacts to soil and groundwater from historical industrial uses of the Site and neighboring Brownfield sites identified as Recognized Environmental Conditions (RECs) in the Phase I ESA for the Site prepared by GHD, dated December 10, 2024.

The following sections summarize the results of Phase II ESA.

1. Soil

1.1 Soil Boring Completion

On December 10 and 11, 2024, GHD oversaw the completion of eleven soil borings (BH-1 through BH-11) by TREC Environmental, Inc. (TREC) at the locations shown on Figure 1. Prior to the start of drilling, on December 10, TREC completed a ground-penetrating radar (GPR) survey in accessible exterior portions of the Site and in interior locations to identify underground utilities proximate to the proposed boring locations and to identify subsurface anomalies that could be indicative of potential environmental concerns. An area of disturbed soil was identified in the area of BH-6 and was suspected to be associated with fill material. Utilities were also identified. The borings were completed using a track-mounted direct-push Geoprobe® drill rig to depths ranging from approximately 8- to 16-feet below ground surface (bgs). Equipment refusal was encountered at all borings except BH-5, BH-8, and BH-9. The cause for the equipment refusal could not be verified but was likely due to the presence of very stiff clays at depth. The soil boring logs are included as Attachment A. Prior to demobilization, the borings were backfilled with the drill cuttings and the surface was patched with concrete.

1.2 Soil Sample Collection

Soil samples were collected from all soil borings for soil description. A headspace analysis was completed at approximate one- to four-foot intervals continuously from the ground surface to the bottom of the borings. Soils encountered consisted primarily of clay with silt, with trace gravel at depth. With the exception of BH-2, fill materials were observed in all of the borings and consisted primarily of silty sand, clay, gravel, brick, slag, organic material, and cinders. Groundwater was encountered in soil borings BH-3, BH-5, and BH-11 at depths of approximately 7.5 feet bgs (BH-5) and 14 feet bgs (BH-3 and BH-11). Following classification, each soil sample was placed into a plastic zip lock bag and sealed, and the resulting headspace was measured for total volatile organic compounds (VOCs) with a photoionization detector (PID) equipped with a 10.6-eV lamp. PID readings in the soil samples collected ranged from 0.0 parts per million (ppm) to 4.2 ppm (BH-6, 0.2 – 3-feet bgs). A slight petroleum-type odor was observed in the soil samples collected from BH-5 at approximately 4- to 8-feet bgs and from BH-7 at approximately 8-feet bgs. A slight unknown odor was observed in the soil samples collected from BH-6 at approximately 0.5- to 3-feet bgs. No obvious visual or olfactory evidence of potential impact was observed in any of the remaining soil samples collected.

Subsurface soil samples as well as near-surface samples of soil/fill materials were selected for laboratory analysis. Based on the lack of obvious visual or olfactory evidence of potential impact in the soil samples collected, subsurface soil samples were selected for laboratory analysis from a range of depth intervals and to provide spatial coverage of the historical on-site operations and boundaries with identified adjacent property concerns. However, based on the low permeability soils encountered, which typically act to retard contaminant transport, subsurface soil samples from shallow to mid-depth ranges were preferentially selected for analysis. Select samples exhibiting the noted slight odors were also submitted for analysis.

The near-surface and subsurface soil samples were submitted to Eurofins for analysis of Target Compound List (TCL) plus Final Commissioner Policy (CP-51) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, polychlorinated biphenyls (PCBs), cyanide, herbicides and pesticides, and per- and polyfluoroalkyl substances (PFAS) via United States Environmental Protection Agency (USEPA) SW-846 Methods 8260, 8270, 6010/7471, 8082, 9012, 8081/8151, and USEPA Method 1633, respectively. One field duplicate and one matrix spike/matrix spike duplicate (MS/MSD) were collected for each analytical method.

Table 1.1 identifies the near-surface and subsurface soil samples collected and submitted for laboratory analysis.

Table 1.1 Soil Samples Submitted for Laboratory Analysis

Analyses	Near-Surface Sample (depth in feet bgs)	Subsurface Sample (depth in feet bgs)
VOCs	BH-6 (0-3), BH-8 (1.5-2.5), BH-9 (3-4)	BH-2 (4-8), BH-3 (8-10), BH-5 (4-6), BH-8 (4-6), BH-10 (10-12), BH-11 (4-6)
SVOCs	BH-6 (0-3), BH-8 (0-1.5), BH-9 (3-4), BH- 11 (0-4)	BH-2 (4-8), BH-3 (8-10), BH-5 (4-6), BH-8 (4-6), BH-11 (4-6)
Metals, Cyanide	BH-1 (3-4), BH-3 (2-4), BH6 (0-3), BH-8 (0-1.5), BH-9 (3-4), BH-10 (3-4), BH-11 (0-4)	BH-6 (4-6), BH-8 (4-6)
PCBs	BH-3 (2-4), BH-4 (0-4), BH-9 (0-3), BH-11 (0-4)	BH-7 (4-6)
Herbicides, Pesticides	BH-3 (2-4), BH-4 (0-4), BH-10 (0-3), BH-11 (0-4)	BH-7 (4-6)
PFAS	BH-3 (1-2), BH-5 (3-4), BH-9 (0-3), BH-11 (0-4)	BH-7 (4-6)

2. Groundwater

2.1 Monitoring Well Installation

Temporary groundwater monitoring wells TPMW-1, TPMW-2, TPMW-3, and TPMW-4 were installed in soil borings BH-3, BH-5, BH-8, and BH-11, respectively. Each well was constructed of 1-inch diameter PVC pipe with 10 feet of screen. Well depths ranged from 14.61-feet bgs to 15.92-feet bgs. The annular space of each well was filled with clean imported sand to a depth of approximately 2 feet above the top of the well screen, and then filled with bentonite to the ground surface. Following completion of groundwater sampling, the wells were removed from the ground, the borings were backfilled with the drill cuttings, and the surface was patched with concrete.

2.2 Groundwater Sample Collection

Water levels were measured in each well prior to sampling. TPMW-3 was dry. Water levels in TPMW-1, TPMW-2, and TPMW-4 were measured as 13.90, 7.80, and 12.61 feet bgs, respectively. Due to the low volumes of water present, purging was not conducted prior to sampling to allow for sufficient water to be available for laboratory analysis. In addition, the wells were not developed prior to sampling.

Samples were collected from TPMW-1, TPMW-2 and TPMW-4 for analysis of VOCs using USEPA SW-846 Method 8260. In addition, samples were collected from TPMW-2 for analysis of SVOCs, TAL metals, cyanide, and 1,4-dioxane using USEPA SW-846 Methods 8270, 6010/6020/7471, 9012, and 8270 SIM, respectively. Groundwater samples were collected from each well using a dedicated and disposable high-density polyethylene (HDPE) bailer and submitted to Eurofins.

3. Data Validation

Eurofins provided Category B (expanded laboratory documentation) data deliverable packages for all analyses. All data were validated by a GHD chemist, who prepared a Data Usability Summary Report (DUSR) for the data. The DUSR is included as Attachment B. The data from the laboratory was considered usable with the qualifiers applied by the laboratory and by the GHD chemist, as identified in the DUSR and in the analytical results summary tables.

4. Analytical Results

The analytical results are presented in the following summary tables:

- Table 4.1 – Soil Analytical Results – non-PFAS analytes
- Table 4.2 – Soil Analytical Results – PFAS analytes
- Table 4.3 – Groundwater Analytical Results - VOCs
- Table 4.4 – Groundwater Analytical Results - SVOCs, metals and cyanide
- Table 4.5 – Groundwater Analytical Results - 1,4-Dioxane

The complete laboratory reports are included as Attachment C.

4.1 Soil

The soil sampling results for the non-PFAS analytes were compared to the NYSDEC Part 375 Soil Cleanup Objectives (SCOs). The soil sampling results for the PFAS analytes were compared to the NYSDEC Guidance Values for Anticipated Site Use. No analytes were detected at concentrations above these criteria for the commercial use category in the soil samples, except for the following (Tables 4.1 and 4.2):

- **Near-Surface Soil Samples**
  - Arsenic in BH-11 (0 – 4-feet bgs) at a concentration of 32 ppm.
  - Benzo(a)pyrene in BH-6 (0 – 3-feet bgs) and BH-8 (0 - 1.5-feet bgs) at concentrations of 1.3 ppm and 2.1 ppm, respectively.
- **Subsurface Soil Samples**
  - Benzo(a)pyrene in BH-2 (4 – 8-feet bgs) at a concentration of 1.8 ppm.

4.2 Groundwater

The detected concentration of 1,4-dioxane was compared to the New York State (NYS) Maximum Contaminant Level (MCL) and the NYSDEC Class GA Guidance Value. Detected concentrations of VOCs, the remaining SVOCs, metals, and cyanide were compared to the NYSDEC Class GA Groundwater Standards and Guidance Values. No analytes were detected at concentrations above these criteria in the groundwater samples, except for the following (Tables 4.3 - 4.5):

- Total iron in TPMW-2 at a concentration of 350 ppm.
- Total and dissolved magnesium in TPMW-2 at concentrations of 51,000 ppm and 58,000 ppm, respectively.
- Total and dissolved sodium in TPMW-2, both at a concentration of 180,000 ppm.
- Phenol in TPMW-2 at an estimated concentration of 1.2 ppm.
- 1,4-Dioxane in TPMW-2 at a concentration of 3.4 parts per billion (ppb).

Elevated magnesium and sodium concentrations in groundwater are commonly found in areas which utilize road salt in the winter.

5. Discussion and Conclusions

The only detections above commercial use-based criteria in the soil samples collected and submitted for analysis were arsenic in one near-surface soil sample and benzo(a)pyrene, which is a polycyclic aromatic hydrocarbon (PAH), in two near-surface soil samples and one subsurface soil sample. These three near-surface soil samples were collected from historic fill materials, which are commonly found on older, previously developed properties in urban areas. PAHs and metals are commonly found at concentrations exceeding commercial criteria in historic fill materials. Although evidence of petroleum impact was identified in soil samples collected from BH-5, which is adjacent to known petroleum-impacted soil on the north-adjoining property, petroleum compounds at concentrations exceeding unrestricted use criteria were not identified.

Although some compounds were detected in groundwater at concentrations exceeding NYSDEC criteria, the nature of these detections do not suggest significant groundwater impacts at the Site. With the exception of relatively low-level detections of 1,4-dioxane and phenol, no VOCs or SVOCs were detected exceeding NYSDEC criteria.

Based on the results of the Limited Phase II ESA, significant soil and groundwater impacts were not identified at the Site and it is unlikely that the Site would be the subject of an enforcement action based on the data collected.

Regards,

Katherine Galanti
Project Manager

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Tables

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				BH-10	BH-10	BH-10	BH-11	BH-11	BH-11	BH-1	BH-2	BH-3	BH-3
Sample ID:				SO-12656942-KP-121024-023	SO-12656942-KP-121024-010	SO-12656942-KP-121024-025	SO-12656942-KP-121024-026	SO-12656942-KP-121024-027	SO-12656942-KP-121024-009	SO-12656942-KP-121024-004	SO-12656942-KP-121024-003	SO-12656942-KP-121024-002	SO-12656942-KP-121024-013
Sample Date:				12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Sample Depth:		NYSDEC Part 375 Soil Cleanup Objectives		0-3 ft BGS	3-4 ft BGS	10-12 ft BGS	0-4 ft BGS	0-4 ft BGS	4-6 ft BGS	3-4 ft BGS	4-8 ft BGS	2-4 ft BGS	2-4 ft BGS
Parameters	**Units**	**Unrestricted**	**Commercial**										
		a	b										
General Chemistry													
Cyanide (total)	mg/kg	27	27	-	R	-	0.48 U	-	-	0.48 U	-	0.48 U	-
Herbicides													
2,4,5-TP (Silvex)	mg/kg	3.8	500	0.006 U	-	-	-	0.006 U	-	-	-	-	0.006 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	*	*	0.011 U	-	-	-	0.011 U	-	-	-	-	0.011 U
Metals													
Aluminum	mg/kg	*	*	-	15000	-	6900	-	-	17000	-	19000	-
Antimony	mg/kg	*	*	-	0.53 UJ	-	0.53 U	-	-	0.53 U	-	0.53 U	-
Arsenic	mg/kg	13	16	-	6.0	-	32[ab]	-	-	9.8	-	5.2	-
Barium	mg/kg	350	400	-	97	-	140	-	-	160	-	170	-
Beryllium	mg/kg	7.2	590	-	0.73	-	0.89	-	-	0.62	-	0.77	-
Cadmium	mg/kg	2.5	9.3	-	0.62	-	0.17 J	-	-	0.23 J	-	0.19 J	-
Calcium	mg/kg	*	*	-	45000	-	33000	-	-	58000	-	41000	-
Chromium	mg/kg	(1/30)[1]	(400/1500)[1]	-	18	-	0.36 U	-	-	19	-	22	-
Cobalt	mg/kg	*	*	-	8.6	-	6.4	-	-	8.0	-	9.5	-
Copper	mg/kg	50	270	-	34	-	59[a]	-	-	43	-	25	-
Iron	mg/kg	*	*	-	19000 J-	-	22000	-	-	18000	-	20000	-
Lead	mg/kg	63	1000	-	73 J+[a]	-	55	-	-	460[a]	-	350[a]	-
Magnesium	mg/kg	*	*	-	17000	-	5200	-	-	32000	-	14000	-
Manganese	mg/kg	1600	10000	-	440 J-	-	230	-	-	550	-	470	-
Mercury	mg/kg	0.18	2.8	-	0.082 J+	-	0.063	-	-	0.64[a]	-	0.32[a]	-
Nickel	mg/kg	30	310	-	20	-	21	-	-	16	-	20	-
Potassium	mg/kg	*	*	-	4000	-	850	-	-	4200	-	5200	-
Selenium	mg/kg	3.9	1500	-	0.80 U	-	0.80 U	-	-	0.80 U	-	0.80 U	-
Silver	mg/kg	2	1500	-	0.33 J	-	0.20 U	-	-	0.20 U	-	0.59 J	-
Sodium	mg/kg	*	*	-	1600	-	370	-	-	200	-	290	-
Thallium	mg/kg	*	*	-	0.76 U	-	0.76 U	-	-	0.76 U	-	0.76 U	-
Vanadium	mg/kg	*	*	-	28	-	15	-	-	30	-	34	-
Zinc	mg/kg	109	10000	-	150 J+[a]	-	48	-	-	100	-	110[a]	-
Pesticides													
4,4'-DDD	mg/kg	0.0033	92	0.00032 U	-	-	-	0.00032 U	-	-	-	-	0.00032 U
4,4'-DDE	mg/kg	0.0033	62	0.0023	-	-	-	0.0065[a]	-	-	-	-	0.00035 U
4,4'-DDT	mg/kg	0.0033	47	0.00039 U	-	-	-	0.00039 U	-	-	-	-	0.00039 U
Aldrin	mg/kg	0.005	0.68	0.00041 U	-	-	-	0.00041 U	-	-	-	-	0.00041 U
alpha-BHC	mg/kg	0.02	3.4	0.0003 U	-	-	-	0.0003 U	-	-	-	-	0.0003 U
alpha-Chlordane	mg/kg	0.094	24	0.00083 U	-	-	-	0.00083 U	-	-	-	-	0.00083 U
beta-BHC	mg/kg	0.036	3	0.0003 U	-	-	-	0.0003 U	-	-	-	-	0.0003 U
delta-BHC	mg/kg	0.04	500	0.00031 U	-	-	-	0.00031 U	-	-	-	-	0.00031 U
Dieldrin	mg/kg	0.005	1.4	0.044 J[a]	-	-	-	0.0004 U	-	-	-	-	0.0004 U
Endosulfan I	mg/kg	2.4	200	0.00032 U	-	-	-	0.00032 U	-	-	-	-	0.00032 U
Endosulfan II	mg/kg	2.4	200	0.0003 U	-	-	-	0.002	-	-	-	-	0.0003 U
Endosulfan sulfate	mg/kg	2.4	200	0.00031 U	-	-	-	0.00031 U	-	-	-	-	0.00031 U
Endrin	mg/kg	0.014	89	0.0012 J	-	-	-	0.018[a]	-	-	-	-	0.00033 U
Endrin aldehyde	mg/kg	*	*	0.00043 U	-	-	-	0.00043 U	-	-	-	-	0.00043 U
Endrin ketone	mg/kg	*	*	0.00041 U	-	-	-	0.00065 J	-	-	-	-	0.00041 U
gamma-BHC (lindane)	mg/kg	0.1	9.2	0.00031 U	-	-	-	0.00031 U	-	-	-	-	0.00031 U
gamma-Chlordane	mg/kg	*	*	0.00053 U	-	-	-	0.00053 U	-	-	-	-	0.00053 U
Heptachlor	mg/kg	0.042	15	0.00036 U	-	-	-	0.00036 U	-	-	-	-	0.00036 U
Heptachlor epoxide	mg/kg	*	*	0.00043 U	-	-	-	0.00043 U	-	-	-	-	0.00043 U

Table 4.1

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Sample Date:				12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Sample Depth:		NYSDEC Part 375 Soil Cleanup Objectives		0-3 ft BGS	3-4 ft BGS	10-12 ft BGS	0-4 ft BGS	0-4 ft BGS	4-6 ft BGS	3-4 ft BGS	4-8 ft BGS	2-4 ft BGS	2-4 ft BGS
Parameters	**Units**	**Unrestricted**	**Commercial**										
Methoxychlor	mg/kg	*	*	0.00034 U	-	-	-	0.0043 J+	-	-	-	-	0.00034 U
Toxaphene	mg/kg	*	*	0.0097 U	-	-	-	0.0097 U	-	-	-	-	0.0097 U
Polychlorinated Biphenyls (PCBs)													
Aroclor-1016 (PCB-1016)	mg/kg	*	*	-	-	-	-	0.049 U	-	-	-	-	0.049 U
Aroclor-1221 (PCB-1221)	mg/kg	*	*	-	-	-	-	0.049 U	-	-	-	-	0.049 U
Aroclor-1232 (PCB-1232)	mg/kg	*	*	-	-	-	-	0.049 U	-	-	-	-	0.049 U
Aroclor-1242 (PCB-1242)	mg/kg	*	*	-	-	-	-	0.049 U	-	-	-	-	0.049 U
Aroclor-1248 (PCB-1248)	mg/kg	*	*	-	-	-	-	0.049 U	-	-	-	-	0.049 U
Aroclor-1254 (PCB-1254)	mg/kg	*	*	-	-	-	-	0.45	-	-	-	-	0.12 U
Aroclor-1260 (PCB-1260)	mg/kg	*	*	-	-	-	-	0.12 U	-	-	-	-	0.12 U
Total PCBs	mg/kg	0.1	1					**0.45[a]**					ND
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	mg/kg	0.1	130	-	-	-	0.055 U	-	0.055 U	-	0.055 U	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	mg/kg	*	*	-	-	-	0.034 U	-	0.034 U	-	0.034 U	-	-
2,4,5-Trichlorophenol	mg/kg	*	*	-	-	-	0.046 U	-	0.046 U	-	0.046 U	-	-
2,4,6-Trichlorophenol	mg/kg	*	*	-	-	-	0.034 U	-	0.034 U	-	0.034 U	-	-
2,4-Dichlorophenol	mg/kg	*	*	-	-	-	0.018 U	-	0.018 U	-	0.018 U	-	-
2,4-Dimethylphenol	mg/kg	*	*	-	-	-	0.041 U	-	0.041 U	-	0.041 U	-	-
2,4-Dinitrophenol	mg/kg	*	*	-	-	-	0.78 U	-	0.78 U	-	0.78 U	-	-
2,4-Dinitrotoluene	mg/kg	*	*	-	-	-	0.035 U	-	0.035 U	-	0.035 U	-	-
2,6-Dinitrotoluene	mg/kg	*	*	-	-	-	0.02 U	-	0.02 U	-	0.02 U	-	-
2-Chloronaphthalene	mg/kg	*	*	-	-	-	0.028 U	-	0.028 U	-	0.028 U	-	-
2-Chlorophenol	mg/kg	*	*	-	-	-	0.031 U	-	0.031 U	-	0.031 U	-	-
2-Methylnaphthalene	mg/kg	*	*	-	-	-	0.075 J	-	0.034 U	-	0.051 J	-	-
2-Methylphenol	mg/kg	0.33	500	-	-	-	0.02 U	-	0.02 U	-	0.02 U	-	-
2-Nitroaniline	mg/kg	*	*	-	-	-	0.025 U	-	0.025 U	-	0.025 U	-	-
2-Nitrophenol	mg/kg	*	*	-	-	-	0.048 U	-	0.048 U	-	0.048 U	-	-
3,3'-Dichlorobenzidine	mg/kg	*	*	-	-	-	0.2 U	-	0.2 U	-	0.2 U	-	-
3-Nitroaniline	mg/kg	*	*	-	-	-	0.047 U	-	0.047 U	-	0.047 U	-	-
4,6-Dinitro-2-methylphenol	mg/kg	*	*	-	-	-	0.17 U	-	0.17 U	-	0.17 U	-	-
4-Bromophenyl phenyl ether	mg/kg	*	*	-	-	-	0.024 U	-	0.024 U	-	0.024 U	-	-
4-Chloro-3-methylphenol	mg/kg	*	*	-	-	-	0.042 U	-	0.042 U	-	0.042 U	-	-
4-Chloroaniline	mg/kg	*	*	-	-	-	0.042 U	-	0.042 U	-	0.042 U	-	-
4-Chlorophenyl phenyl ether	mg/kg	*	*	-	-	-	0.021 U	-	0.021 U	-	0.021 U	-	-
4-Methylphenol	mg/kg	0.33	500	-	-	-	0.02 U	-	0.02 U	-	0.02 U	-	-
4-Nitroaniline	mg/kg	*	*	-	-	-	0.089 U	-	0.089 U	-	0.089 U	-	-
4-Nitrophenol	mg/kg	*	*	-	-	-	0.12 U	-	0.12 U	-	0.12 U	-	-
Acenaphthene	mg/kg	20	500	-	-	-	0.025 U	-	0.025 U	-	0.066 J	-	-
Acenaphthylene	mg/kg	100	500	-	-	-	0.022 U	-	0.022 U	-	0.31	-	-
Acetophenone	mg/kg	*	*	-	-	-	0.023 U	-	0.023 U	-	0.023 U	-	-
Anthracene	mg/kg	100	500	-	-	-	0.042 U	-	0.042 U	-	0.58	-	-
Atrazine	mg/kg	*	*	-	-	-	0.059 U	-	0.059 U	-	0.059 U	-	-
Benzaldehyde	mg/kg	*	*	-	-	-	0.14 U	-	0.14 U	-	0.14 U	-	-
Benzo(a)anthracene	mg/kg	1	5.6	-	-	-	0.24	-	0.017 U	-	**2.3[a]**	-	-
Benzo(a)pyrene	mg/kg	1	1	-	-	-	0.27	-	0.025 U	-	**1.8[ab]**	-	-
Benzo(b)fluoranthene	mg/kg	1	5.6	-	-	-	0.34	-	0.027 U	-	**2.7[a]**	-	-
Benzo(g,h,i)perylene	mg/kg	100	500	-	-	-	0.2	-	0.018 U	-	1.3	-	-
Benzo(k)fluoranthene	mg/kg	0.8	56	-	-	-	0.15 J	-	0.022 U	-	**1[a]**	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	*	*	-	-	-	0.025 U	-	0.025 U	-	0.025 U	-	-
bis(2-Chloroethoxy)methane	mg/kg	*	*	-	-	-	0.036 U	-	0.036 U	-	0.036 U	-	-
bis(2-Chloroethyl)ether	mg/kg	*	*	-	-	-	0.022 U	-	0.022 U	-	0.022 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	*	*	-	-	-	0.058 U	-	0.058 U	-	0.13 J	-	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				BH-10	BH-10	BH-10	BH-11	BH-11	BH-11	BH-1	BH-2	BH-3	BH-3
Sample ID:				SO-12656942-KP-121024-023	SO-12656942-KP-121024-010	SO-12656942-KP-121024-025	SO-12656942-KP-121024-026	SO-12656942-KP-121024-027	SO-12656942-KP-121024-009	SO-12656942-KP-121024-004	SO-12656942-KP-121024-003	SO-12656942-KP-121024-002	SO-12656942-KP-121024-013
Sample Date:				12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Sample Depth:		NYSDEC Part 375 Soil Cleanup Objectives		0-3 ft BGS	3-4 ft BGS	10-12 ft BGS	0-4 ft BGS	0-4 ft BGS	4-6 ft BGS	3-4 ft BGS	4-8 ft BGS	2-4 ft BGS	2-4 ft BGS
Parameters	**Units**	**Unrestricted**	**Commercial**										
Butyl benzylphthalate (BBP)	mg/kg	*	*	-	-	-	0.028 U	-	0.028 U	-	0.052 J	-	-
Caprolactam	mg/kg	*	*	-	-	-	0.051 U	-	0.051 U	-	0.051 U	-	-
Carbazole	mg/kg	*	*	-	-	-	0.02 U	-	0.02 U	-	0.49	-	-
Chrysene	mg/kg	1	56	-	-	-	0.25	-	0.038 U	-	2.5[a]	-	-
Dibenz(a,h)anthracene	mg/kg	0.33	0.56	-	-	-	0.064 J	-	0.03 U	-	0.46[a]	-	-
Dibenzofuran	mg/kg	7	350	-	-	-	0.03 J	-	0.02 U	-	0.077 J	-	-
Diethyl phthalate	mg/kg	*	*	-	-	-	0.022 U	-	0.022 U	-	0.022 U	-	-
Dimethyl phthalate	mg/kg	*	*	-	-	-	0.02 U	-	0.02 U	-	0.02 U	-	-
Di-n-butylphthalate (DBP)	mg/kg	*	*	-	-	-	0.029 U	-	0.029 U	-	0.029 U	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	*	*	-	-	-	0.02 U	-	0.02 U	-	0.02 U	-	-
Fluoranthene	mg/kg	100	500	-	-	-	0.4	-	0.018 U	-	4.8	-	-
Fluorene	mg/kg	30	500	-	-	-	0.02 U	-	0.02 U	-	0.14 J	-	-
Hexachlorobenzene	mg/kg	0.33	6	-	-	-	0.023 U	-	0.023 U	-	0.023 U	-	-
Hexachlorobutadiene	mg/kg	*	*	-	-	-	0.025 U	-	0.025 U	-	0.025 U	-	-
Hexachlorocyclopentadiene	mg/kg	*	*	-	-	-	0.023 U	-	0.023 U	-	0.023 U	-	-
Hexachloroethane	mg/kg	*	*	-	-	-	0.022 U	-	0.022 U	-	0.022 U	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	5.6	-	-	-	0.17 J	-	0.021 U	-	1.2[a]	-	-
Isophorone	mg/kg	*	*	-	-	-	0.036 U	-	0.036 U	-	0.036 U	-	-
Naphthalene	mg/kg	12	500	-	-	-	0.033 J	-	0.022 U	-	0.037 J	-	-
Nitrobenzene	mg/kg	*	*	-	-	-	0.019 U	-	0.019 U	-	0.019 U	-	-
N-Nitrosodi-n-propylamine	mg/kg	*	*	-	-	-	0.029 U	-	0.029 U	-	0.029 U	-	-
N-Nitrosodiphenylamine	mg/kg	*	*	-	-	-	0.14 U	-	0.14 U	-	0.14 U	-	-
Pentachlorophenol	mg/kg	0.8	6.7	-	-	-	0.17 U	-	0.17 U	-	0.17 U	-	-
Phenanthrene	mg/kg	100	500	-	-	-	0.24	-	0.025 U	-	2.4	-	-
Phenol	mg/kg	0.33	500	-	-	-	0.026 U	-	0.026 U	-	0.026 U	-	-
Pyrene	mg/kg	100	500	-	-	-	0.36	-	0.02 U	-	3.3	-	-
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	mg/kg	0.68	500	-	-	0.00036 U	-	-	0.0008 J	-	0.00036 U	-	-
1,1,2,2-Tetrachloroethane	mg/kg	*	*	-	-	0.00081 U	-	-	0.00081 U	-	0.00081 U	-	-
1,1,2-Trichloroethane	mg/kg	*	*	-	-	0.00065 U	-	-	0.00065 U	-	0.00065 U	-	-
1,1-Dichloroethane	mg/kg	0.27	240	-	-	0.00061 U	-	-	0.00061 U	-	0.00061 U	-	-
1,1-Dichloroethene	mg/kg	0.33	500	-	-	0.00061 U	-	-	0.00061 U	-	0.00061 U	-	-
1,2,4-Trichlorobenzene	mg/kg	*	*	-	-	0.0003 U	-	-	0.0003 U	-	0.0003 U	-	-
1,2,4-Trimethylbenzene	mg/kg	3.6	190	-	-	0.00096 U	-	-	0.00096 U	-	0.00096 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	*	*	-	-	0.0025 U	-	-	0.0025 U	-	0.0025 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	*	*	-	-	0.00064 U	-	-	0.00064 U	-	0.00064 U	-	-
1,2-Dichlorobenzene	mg/kg	1.1	500	-	-	0.00039 U	-	-	0.00039 U	-	0.00039 U	-	-
1,2-Dichloroethane	mg/kg	0.02	30	-	-	0.00025 U	-	-	0.00025 U	-	0.00025 U	-	-
1,2-Dichloropropane	mg/kg	*	*	-	-	0.0025 U	-	-	0.0025 U	-	0.0025 U	-	-
1,3,5-Trimethylbenzene	mg/kg	8.4	190	-	-	0.00032 U	-	-	0.00032 U	-	0.00032 U	-	-
1,3-Dichlorobenzene	mg/kg	2.4	280	-	-	0.00026 U	-	-	0.00026 U	-	0.00026 U	-	-
1,4-Dichlorobenzene	mg/kg	1.8	130	-	-	0.0007 U	-	-	0.0007 U	-	0.0007 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.12	500	-	-	0.0018 U	-	-	0.0018 U	-	0.0018 U	-	-
2-Hexanone	mg/kg	*	*	-	-	0.0025 U	-	-	0.0025 U	-	0.0025 U	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	11	500	-	-	0.00044 U	-	-	0.00044 U	-	0.00044 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	*	*	-	-	0.0016 U	-	-	0.0016 U	-	0.0016 U	-	-
Acetone	mg/kg	0.05	500	-	-	0.0042 U	-	-	0.0042 U	-	0.012 J	-	-
Benzene	mg/kg	0.06	44	-	-	0.00025 U	-	-	0.00025 U	-	0.00018 J	-	-
Bromodichloromethane	mg/kg	*	*	-	-	0.00067 U	-	-	0.00067 U	-	0.00067 U	-	-
Bromoform	mg/kg	*	*	-	-	0.0025 U	-	-	0.0025 U	-	0.0025 U	-	-
Bromomethane (Methyl bromide)	mg/kg	*	*	-	-	0.00045 U	-	-	0.00045 U	-	0.00045 U	-	-
Carbon disulfide	mg/kg	*	*	-	-	0.0025 U	-	-	0.0025 U	-	0.0025 U	-	-
Carbon tetrachloride	mg/kg	0.76	22	-	-	0.00048 U	-	-	0.00048 U	-	0.00048 U	-	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				BH-10	BH-10	BH-10	BH-11	BH-11	BH-11	BH-1	BH-2	BH-3	BH-3
Sample ID:				SO-12656942-KP-121024-023	SO-12656942-KP-121024-010	SO-12656942-KP-121024-025	SO-12656942-KP-121024-026	SO-12656942-KP-121024-027	SO-12656942-KP-121024-009	SO-12656942-KP-121024-004	SO-12656942-KP-121024-003	SO-12656942-KP-121024-002	SO-12656942-KP-121024-013
Sample Date:				12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/11/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Sample Depth:		NYSDEC Part 375 Soil Cleanup Objectives		0-3 ft BGS	3-4 ft BGS	10-12 ft BGS	0-4 ft BGS	0-4 ft BGS	4-6 ft BGS	3-4 ft BGS	4-8 ft BGS	2-4 ft BGS	2-4 ft BGS
Parameters	**Units**	**Unrestricted**	**Commercial**										
Chlorobenzene	mg/kg	1.1	500	-	-	0.00066 U	-	-	0.00066 U	-	0.00066 U	-	-
Chloroethane	mg/kg	*	*	-	-	0.0011 U	-	-	0.0011 U	-	0.0011 U	-	-
Chloroform (Trichloromethane)	mg/kg	0.37	350	-	-	0.00031 U	-	-	0.00031 U	-	0.00031 U	-	-
Chloromethane (Methyl chloride)	mg/kg	*	*	-	-	0.0003 U	-	-	0.0003 U	-	0.0003 U	-	-
cis-1,2-Dichloroethene	mg/kg	0.25	500	-	-	0.00064 U	-	-	0.00064 U	-	0.00064 U	-	-
cis-1,3-Dichloropropene	mg/kg	*	*	-	-	0.00072 U	-	-	0.00072 U	-	0.00072 U	-	-
Cyclohexane	mg/kg	*	*	-	-	0.0007 U	-	-	0.0007 U	-	0.0007 U	-	-
Cymene (p-Isopropyltoluene)	mg/kg	*	*	-	-	0.0004 U	-	-	0.0004 U	-	0.0004 U	-	-
Dibromochloromethane	mg/kg	*	*	-	-	0.00064 U	-	-	0.00064 U	-	0.00064 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	*	*	-	-	0.00041 U	-	-	0.00041 U	-	0.00041 U	-	-
Ethylbenzene	mg/kg	1	390	-	-	0.00035 U	-	-	0.00043 J	-	0.00035 U	-	-
Isopropyl benzene	mg/kg	*	*	-	-	0.00075 U	-	-	0.00075 U	-	0.00075 U	-	-
Methyl acetate	mg/kg	*	*	-	-	0.003 U	-	-	0.003 U	-	0.003 U	-	-
Methyl cyclohexane	mg/kg	*	*	-	-	0.00076 U	-	-	0.00076 U	-	0.00069 J	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.93	500	-	-	0.00049 U	-	-	0.00049 U	-	0.00049 U	-	-
Methylene chloride	mg/kg	0.05	500	-	-	0.0023 U	-	-	0.0023 U	-	0.0024 J	-	-
Naphthalene	mg/kg	12	500	-	-	0.00067 U	-	-	0.00067 U	-	0.00067 U	-	-
N-Butylbenzene	mg/kg	12	500	-	-	0.00044 U	-	-	0.00044 U	-	0.00044 U	-	-
N-Propylbenzene	mg/kg	3.9	500	-	-	0.0004 U	-	-	0.0004 U	-	0.0004 U	-	-
Styrene	mg/kg	*	*	-	-	0.00025 U	-	-	0.00025 U	-	0.00025 U	-	-
tert-Butylbenzene	mg/kg	5.9	500	-	-	0.00052 U	-	-	0.00052 U	-	0.00052 U	-	-
Tetrachloroethene	mg/kg	1.3	150	-	-	0.00067 U	-	-	0.00067 U	-	0.00091 J	-	-
Toluene	mg/kg	0.7	500	-	-	0.00038 U	-	-	0.00038 U	-	0.0008 J	-	-
trans-1,2-Dichloroethene	mg/kg	0.19	500	-	-	0.00052 U	-	-	0.00052 U	-	0.00052 U	-	-
trans-1,3-Dichloropropene	mg/kg	*	*	-	-	0.0022 U	-	-	0.0022 U	-	0.0022 U	-	-
Trichloroethene	mg/kg	0.47	200	-	-	0.0011 U	-	-	0.0011 U	-	0.0011 U	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	*	*	-	-	0.00047 U	-	-	0.00047 U	-	0.00047 U	-	-
Trifluorotrichloroethane (CFC-113)	mg/kg	*	*	-	-	0.0011 U	-	-	0.0011 U	-	0.0011 U	-	-
Vinyl chloride	mg/kg	0.02	13	-	-	0.00061 U	-	-	0.00061 U	-	0.00061 U	-	-
Xylenes (total)	mg/kg	0.26	500	-	-	0.00084 U	-	-	0.0016 J	-	0.00084 U	-	-

Notes:

1.2[a]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for unrestricted use
1.8[ab]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for commercial use

Soil Cleanup Objectives - 6 NYCRR Part 375, Subpart 375-6, effective December 14, 2006.
New York State Department of Environmental Conservation.
mg/kg - Milligrams per kilogram
ND - Not detected
J - The result is an estimated value
J+ - The result is an estimated value; biased high
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - feet below ground surface
[1] - (hexavalent/trivalent)
* - No criteria
- - Not analyzed

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-3**	**BH-4**	**BH-5**	**BH-5**	**BH-5**	**BH-6**	**BH-6**	**BH-6**	**BH-6**	**BH-7**	**BH-7**	**BH-8**
Sample ID:		**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-015**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-022**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
Sample Depth:		**8-10 ft BGS**	**0-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
					Duplicate	**Duplicate**				**Duplicate**		**Duplicate**	
Parameters	**Units**												
General Chemistry													
Cyanide (total)	mg/kg	-	-	-	-	-	-	0.48 U	0.48 U	0.48 U	-	-	0.75 J
Herbicides													
2,4,5-TP (Silvex)	mg/kg	-	0.006 U	-	-	-	-	-	-	-	0.006 U	0.006 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	-	0.011 U	-	-	-	-	-	-	-	0.011 U	0.011 U	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	7700	15000	16000	-	-	13000
Antimony	mg/kg	-	-	-	-	-	-	0.53 U	0.53 U	0.53 U	-	-	0.53 U
Arsenic	mg/kg	-	-	-	-	-	-	7.1	3.8	3.2	-	-	6.9
Barium	mg/kg	-	-	-	-	-	-	63	82	73	-	-	110
Beryllium	mg/kg	-	-	-	-	-	-	0.58	0.61	0.64	-	-	0.66
Cadmium	mg/kg	-	-	-	-	-	-	0.18 J	0.34	0.20 J	-	-	0.69
Calcium	mg/kg	-	-	-	-	-	-	42000	26000	37000	-	-	37000
Chromium	mg/kg	-	-	-	-	-	-	21	18	19	-	-	19
Cobalt	mg/kg	-	-	-	-	-	-	4.9	10	7.8	-	-	5.9
Copper	mg/kg	-	-	-	-	-	-	**60[a]**	20	19	-	-	**56[a]**
Iron	mg/kg	-	-	-	-	-	-	60000	19000	18000	-	-	25000
Lead	mg/kg	-	-	-	-	-	-	**130[a]**	16	16	-	-	**110[a]**
Magnesium	mg/kg	-	-	-	-	-	-	13000	17000	23000	-	-	6800
Manganese	mg/kg	-	-	-	-	-	-	650	760 J	440 J	-	-	770
Mercury	mg/kg	-	-	-	-	-	-	0.062	0.019 J	0.033	-	-	0.093
Nickel	mg/kg	-	-	-	-	-	-	30	22	19	-	-	17
Potassium	mg/kg	-	-	-	-	-	-	1100	3900	4300	-	-	2400
Selenium	mg/kg	-	-	-	-	-	-	0.80 U	0.80 U	0.80 U	-	-	0.80 U
Silver	mg/kg	-	-	-	-	-	-	0.20 U	0.45 J	0.41 J	-	-	0.20 U
Sodium	mg/kg	-	-	-	-	-	-	210	340	320	-	-	1300
Thallium	mg/kg	-	-	-	-	-	-	0.76 U	0.76 U	0.76 U	-	-	0.88 J
Vanadium	mg/kg	-	-	-	-	-	-	22	30	31	-	-	23
Zinc	mg/kg	-	-	-	-	-	-	62	69	71	-	-	**130[a]**
Pesticides													
4,4'-DDD	mg/kg	-	0.00032 U	-	-	-	-	-	-	-	0.00032 U	0.00032 U	-
4,4'-DDE	mg/kg	-	0.00035 U	-	-	-	-	-	-	-	0.00035 U	0.00035 U	-
4,4'-DDT	mg/kg	-	0.00039 U	-	-	-	-	-	-	-	0.00039 U	0.00039 U	-
Aldrin	mg/kg	-	0.00041 U	-	-	-	-	-	-	-	0.00041 U	0.00041 U	-
alpha-BHC	mg/kg	-	0.0003 U	-	-	-	-	-	-	-	0.0003 U	0.0003 U	-
alpha-Chlordane	mg/kg	-	0.00083 U	-	-	-	-	-	-	-	0.00083 U	0.00083 U	-
beta-BHC	mg/kg	-	0.0003 U	-	-	-	-	-	-	-	0.0003 U	0.0003 U	-
delta-BHC	mg/kg	-	0.00031 U	-	-	-	-	-	-	-	0.00031 U	0.00031 U	-
Dieldrin	mg/kg	-	0.0004 U	-	-	-	-	-	-	-	0.0004 U	0.0004 U	-
Endosulfan I	mg/kg	-	0.00032 U	-	-	-	-	-	-	-	0.00032 U	0.00032 U	-
Endosulfan II	mg/kg	-	0.0003 U	-	-	-	-	-	-	-	0.0003 U	0.0003 U	-
Endosulfan sulfate	mg/kg	-	0.00031 U	-	-	-	-	-	-	-	0.00031 U	0.00031 U	-
Endrin	mg/kg	-	0.00051 J	-	-	-	-	-	-	-	0.00033 U	0.00033 U	-
Endrin aldehyde	mg/kg	-	0.00043 U	-	-	-	-	-	-	-	0.00043 U	0.00043 U	-
Endrin ketone	mg/kg	-	0.00041 U	-	-	-	-	-	-	-	0.00041 U	0.00041 U	-
gamma-BHC (lindane)	mg/kg	-	0.00031 U	-	-	-	-	-	-	-	0.00031 U	0.00031 U	-
gamma-Chlordane	mg/kg	-	0.00053 U	-	-	-	-	-	-	-	0.00053 U	0.00053 U	-
Heptachlor	mg/kg	-	0.00036 U	-	-	-	-	-	-	-	0.00036 U	0.00036 U	-
Heptachlor epoxide	mg/kg	-	0.00043 U	-	-	-	-	-	-	-	0.00043 U	0.00043 U	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		BH-3	BH-4	BH-5	BH-5	BH-5	BH-6	BH-6	BH-6	BH-6	BH-7	BH-7	BH-8
Sample ID:		SO-12656942-KP-121024-001	SO-12656942-KP-121024-019	SO-12656942-KP-121024-005	SO-12656942-KP-121024-029	SO-12656942-KP-121024-030	SO-12656942-KP-121024-017	SO-12656942-KP-121024-018	SO-12656942-KP-121024-006	SO-12656942-KP-121024-031	SO-12656942-KP-121024-015	SO-12656942-KP-121024-032	SO-12656942-KP-121024-022
Sample Date:		12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024	12/10/2024
Sample Depth:		8-10 ft BGS	0-4 ft BGS	4-6 ft BGS	4-6 ft BGS	4-6 ft BGS	0-3 ft BGS	0-3 ft BGS	4-6 ft BGS	4-6 ft BGS	4-6 ft BGS	4-6 ft BGS	0-1.5 ft BGS
					Duplicate	Duplicate				Duplicate		Duplicate	
Parameters	**Units**												
Methoxychlor	mg/kg	-	0.00034 U	-	-	-	-	-	-	-	0.00034 U	0.00034 U	-
Toxaphene	mg/kg	-	0.0097 U	-	-	-	-	-	-	-	0.0097 U	0.0097 U	-
Polychlorinated Biphenyls (PCBs)													
Aroclor-1016 (PCB-1016)	mg/kg	-	0.049 U	-	-	-	-	-	-	-	0.049 U	0.049 U	-
Aroclor-1221 (PCB-1221)	mg/kg	-	0.049 U	-	-	-	-	-	-	-	0.049 U	0.049 U	-
Aroclor-1232 (PCB-1232)	mg/kg	-	0.049 U	-	-	-	-	-	-	-	0.049 U	0.049 U	-
Aroclor-1242 (PCB-1242)	mg/kg	-	0.049 U	-	-	-	-	-	-	-	0.049 U	0.049 U	-
Aroclor-1248 (PCB-1248)	mg/kg	-	0.049 U	-	-	-	-	-	-	-	0.049 U	0.049 U	-
Aroclor-1254 (PCB-1254)	mg/kg	-	0.12 U	-	-	-	-	-	-	-	0.12 U	0.12 U	-
Aroclor-1260 (PCB-1260)	mg/kg	-	0.12 U	-	-	-	-	-	-	-	0.12 U	0.12 U	-
Total PCBs	mg/kg		ND								ND	ND	
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	mg/kg	0.055 U	-	0.055 U	-	0.055 U	-	0.055 U	-	-	-	-	0.055 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	mg/kg	0.034 U	-	0.034 U	-	0.034 U	-	0.034 U	-	-	-	-	0.034 U
2,4,5-Trichlorophenol	mg/kg	0.046 U	-	0.046 U	-	0.046 U	-	0.046 U	-	-	-	-	0.046 U
2,4,6-Trichlorophenol	mg/kg	0.034 U	-	0.034 U	-	0.034 U	-	0.034 U	-	-	-	-	0.034 U
2,4-Dichlorophenol	mg/kg	0.018 U	-	0.018 U	-	0.018 U	-	0.018 U	-	-	-	-	0.018 U
2,4-Dimethylphenol	mg/kg	0.041 U	-	0.041 U	-	0.041 U	-	0.041 U	-	-	-	-	0.041 U
2,4-Dinitrophenol	mg/kg	0.78 U	-	0.78 U	-	0.78 U	-	0.78 U	-	-	-	-	0.78 U
2,4-Dinitrotoluene	mg/kg	0.035 U	-	0.035 U	-	0.035 U	-	0.035 U	-	-	-	-	0.035 U
2,6-Dinitrotoluene	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.02 U
2-Chloronaphthalene	mg/kg	0.028 U	-	0.028 U	-	0.028 U	-	0.028 U	-	-	-	-	0.028 U
2-Chlorophenol	mg/kg	0.031 U	-	0.031 U	-	0.031 U	-	0.031 U	-	-	-	-	0.031 U
2-Methylnaphthalene	mg/kg	0.034 U	-	0.034 U	-	0.034 U	-	0.034 U	-	-	-	-	0.034 U
2-Methylphenol	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.02 U
2-Nitroaniline	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	0.025 U	-	-	-	-	0.025 U
2-Nitrophenol	mg/kg	0.048 U	-	0.048 U	-	0.048 U	-	0.048 U	-	-	-	-	0.048 U
3,3'-Dichlorobenzidine	mg/kg	0.2 U	-	0.2 U	-	0.2 U	-	0.2 U	-	-	-	-	0.2 U
3-Nitroaniline	mg/kg	0.047 U	-	0.047 U	-	0.047 U	-	0.047 U	-	-	-	-	0.047 U
4,6-Dinitro-2-methylphenol	mg/kg	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	-	-	-	-	0.17 U
4-Bromophenyl phenyl ether	mg/kg	0.024 U	-	0.024 U	-	0.024 U	-	0.024 U	-	-	-	-	0.024 U
4-Chloro-3-methylphenol	mg/kg	0.042 U	-	0.042 U	-	0.042 U	-	0.042 U	-	-	-	-	0.042 U
4-Chloroaniline	mg/kg	0.042 U	-	0.042 U	-	0.042 U	-	0.042 U	-	-	-	-	0.042 U
4-Chlorophenyl phenyl ether	mg/kg	0.021 U	-	0.021 U	-	0.021 U	-	0.021 U	-	-	-	-	0.021 U
4-Methylphenol	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.02 U
4-Nitroaniline	mg/kg	0.089 U	-	0.089 U	-	0.089 U	-	0.089 U	-	-	-	-	0.089 U
4-Nitrophenol	mg/kg	0.12 U	-	0.12 U	-	0.12 U	-	0.12 U	-	-	-	-	0.12 U
Acenaphthene	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	0.025 U	-	-	-	-	0.27 J
Acenaphthylene	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.022 U	-	-	-	-	0.022 U
Acetophenone	mg/kg	0.023 U	-	0.023 U	-	0.023 U	-	0.023 U	-	-	-	-	0.023 U
Anthracene	mg/kg	0.042 U	-	0.042 U	-	0.042 U	-	0.042 U	-	-	-	-	1.1
Atrazine	mg/kg	0.059 U	-	0.059 U	-	0.059 U	-	0.059 U	-	-	-	-	0.059 U
Benzaldehyde	mg/kg	0.14 U	-	0.14 U	-	0.14 U	-	0.14 U	-	-	-	-	0.14 U
Benzo(a)anthracene	mg/kg	0.017 U	-	0.019 J	-	0.017 U	-	0.81 J	-	-	-	-	**2.3[a]**
Benzo(a)pyrene	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	**1.3[ab]**	-	-	-	-	**2.1[ab]**
Benzo(b)fluoranthene	mg/kg	0.027 U	-	0.027 U	-	0.027 U	-	**1.7[a]**	-	-	-	-	**2.4[a]**
Benzo(g,h,i)perylene	mg/kg	0.018 U	-	0.018 U	-	0.018 U	-	1.1	-	-	-	-	1.3
Benzo(k)fluoranthene	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.71 J	-	-	-	-	**1.2[a]**
Biphenyl (1,1-Biphenyl)	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	0.025 U	-	-	-	-	0.025 U
bis(2-Chloroethoxy)methane	mg/kg	0.036 U	-	0.036 U	-	0.036 U	-	0.036 U	-	-	-	-	0.036 U
bis(2-Chloroethyl)ether	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.022 U	-	-	-	-	0.022 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.058 U	-	0.058 U	-	0.087 J	-	0.058 U	-	-	-	-	0.058 U

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-3**	**BH-4**	**BH-5**	**BH-5**	**BH-5**	**BH-6**	**BH-6**	**BH-6**	**BH-6**	**BH-7**	**BH-7**	**BH-8**
Sample ID:		**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-015**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-022**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
Sample Depth:		**8-10 ft BGS**	**0-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**4-6 ft BGS Duplicate**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**0-1.5 ft BGS**
Parameters	**Units**												
Butyl benzylphthalate (BBP)	mg/kg	0.028 U	-	0.028 U	-	0.028 U	-	0.028 U	-	-	-	-	0.028 U
Caprolactam	mg/kg	0.051 U	-	0.051 U	-	0.051 U	-	0.051 U	-	-	-	-	0.051 U
Carbazole	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.41 J
Chrysene	mg/kg	0.038 U	-	0.038 U	-	0.038 U	-	1	-	-	-	-	**2.3[a]**
Dibenz(a,h)anthracene	mg/kg	0.03 U	-	0.03 U	-	0.03 U	-	**0.36 J[a]**	-	-	-	-	**0.41 J[a]**
Dibenzofuran	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.19 J
Diethyl phthalate	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.022 U	-	-	-	-	0.022 U
Dimethyl phthalate	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.02 U
Di-n-butylphthalate (DBP)	mg/kg	0.029 U	-	0.029 U	-	0.029 U	-	0.029 U	-	-	-	-	0.029 U
Di-n-octyl phthalate (DnOP)	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.02 U
Fluoranthene	mg/kg	0.018 U	-	0.044 J	-	0.037 J	-	0.76 J	-	-	-	-	4.9
Fluorene	mg/kg	0.02 U	-	0.02 U	-	0.02 U	-	0.02 U	-	-	-	-	0.34 J
Hexachlorobenzene	mg/kg	0.023 U	-	0.023 U	-	0.023 U	-	0.023 U	-	-	-	-	0.023 U
Hexachlorobutadiene	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	0.025 U	-	-	-	-	0.025 U
Hexachlorocyclopentadiene	mg/kg	0.023 U	-	0.023 U	-	0.023 U	-	0.023 U	-	-	-	-	0.023 U
Hexachloroethane	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.022 U	-	-	-	-	0.022 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.021 U	-	0.021 U	-	0.021 U	-	**0.92 J[a]**	-	-	-	-	**1.1[a]**
Isophorone	mg/kg	0.036 U	-	0.036 U	-	0.036 U	-	0.036 U	-	-	-	-	0.036 U
Naphthalene	mg/kg	0.022 U	-	0.022 U	-	0.022 U	-	0.022 U	-	-	-	-	0.022 U
Nitrobenzene	mg/kg	0.019 U	-	0.019 U	-	0.019 U	-	0.019 U	-	-	-	-	0.019 U
N-Nitrosodi-n-propylamine	mg/kg	0.029 U	-	0.029 U	-	0.029 U	-	0.029 U	-	-	-	-	0.029 U
N-Nitrosodiphenylamine	mg/kg	0.14 U	-	0.14 U	-	0.14 U	-	0.14 U	-	-	-	-	0.14 U
Pentachlorophenol	mg/kg	0.17 U	-	0.17 U	-	0.17 U	-	0.17 U	-	-	-	-	0.17 U
Phenanthrene	mg/kg	0.025 U	-	0.025 U	-	0.025 U	-	0.17 J	-	-	-	-	3.9
Phenol	mg/kg	0.026 U	-	0.026 U	-	0.026 U	-	0.026 U	-	-	-	-	0.026 U
Pyrene	mg/kg	0.02 U	-	0.034 J	-	0.032 J	-	0.76 J	-	-	-	-	4
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	mg/kg	0.00036 U	-	0.00036 U	0.00036 U	-	0.00036 U	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.00081 UJ	-	0.00081 U	0.00081 U	-	0.00081 U	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	0.00065 U	-	0.00065 U	0.00065 U	-	0.00065 U	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	0.00061 U	-	0.00061 U	0.00061 U	-	0.00061 U	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	0.00061 U	-	0.00061 U	0.00061 U	-	0.00061 U	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0003 U	-	0.0003 U	0.0003 U	-	0.0003 U	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.00096 U	-	0.00096 U	0.00096 U	-	0.00096 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0025 U	-	0.0025 U	0.0025 U	-	0.0025 U	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.00064 U	-	0.00064 U	0.00064 U	-	0.00064 U	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.00039 U	-	0.00039 U	0.00039 U	-	0.00039 U	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	0.00025 U	-	0.00025 U	0.00025 U	-	0.00025 U	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0025 U	-	0.0025 U	0.0025 U	-	0.0025 U	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.00032 U	-	0.00032 U	0.00032 U	-	0.00032 U	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.00026 U	-	0.00026 U	0.00026 U	-	0.00026 U	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.0007 U	-	0.0007 U	0.0007 U	-	0.0007 U	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.0018 UJ	-	0.0018 U	0.0018 U	-	0.0067 J	-	-	-	-	-	-
2-Hexanone	mg/kg	0.0025 U	-	0.0025 U	0.0025 U	-	0.0025 U	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	0.00044 U	-	0.00044 U	0.00044 U	-	0.00044 U	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.0016 U	-	0.0016 U	0.0016 U	-	0.0016 U	-	-	-	-	-	-
Acetone	mg/kg	0.0042 U	-	0.0029 J	0.0045 J	-	0.0042 U	-	-	-	-	-	-
Benzene	mg/kg	0.00025 U	-	0.00025 U	0.00025 U	-	0.0011 J	-	-	-	-	-	-
Bromodichloromethane	mg/kg	0.00067 U	-	0.00067 U	0.00067 U	-	0.00067 U	-	-	-	-	-	-
Bromoform	mg/kg	0.0025 U	-	0.0025 U	0.0025 U	-	0.0025 U	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/kg	0.00045 U	-	0.00045 U	0.00045 U	-	0.00045 U	-	-	-	-	-	-
Carbon disulfide	mg/kg	0.0025 U	-	0.0025 U	0.0025 U	-	0.0025 U	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	0.00048 U	-	0.00048 U	0.00048 U	-	0.00048 U	-	-	-	-	-	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-3**	**BH-4**	**BH-5**	**BH-5**	**BH-5**	**BH-6**	**BH-6**	**BH-6**	**BH-6**	**BH-7**	**BH-7**	**BH-8**
Sample ID:		**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-015**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-022**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
Sample Depth:		**8-10 ft BGS**	**0-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**4-6 ft BGS Duplicate**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**4-6 ft BGS**	**4-6 ft BGS Duplicate**	**0-1.5 ft BGS**
Parameters	**Units**												
Chlorobenzene	mg/kg	0.00066 U	-	0.00066 U	0.00066 U	-	0.00066 U	-	-	-	-	-	-
Chloroethane	mg/kg	0.0011 U	-	0.0011 U	0.0011 U	-	0.0011 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	0.00031 U	-	0.00031 U	0.00031 U	-	0.00031 U	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/kg	0.0003 U	-	0.0003 U	0.0003 U	-	0.0003 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.00064 U	-	0.00064 U	0.00064 U	-	0.00064 U	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	0.00072 U	-	0.00072 U	0.00072 U	-	0.00072 U	-	-	-	-	-	-
Cyclohexane	mg/kg	0.0007 U	-	0.0007 U	0.0007 U	-	0.0007 U	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/kg	0.0004 U	-	0.0004 U	0.0004 U	-	0.0004 U	-	-	-	-	-	-
Dibromochloromethane	mg/kg	0.00064 U	-	0.00064 U	0.00064 U	-	0.00064 U	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.00041 U	-	0.00041 U	0.00041 U	-	0.00041 U	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.00035 U	-	0.00035 U	0.00035 U	-	0.0015 J	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.00075 U	-	0.00075 U	0.00075 U	-	0.00075 U	-	-	-	-	-	-
Methyl acetate	mg/kg	0.003 U	-	0.003 U	0.003 U	-	0.003 U	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.00076 U	-	0.00076 U	0.00076 U	-	0.00076 U	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.00049 U	-	0.00049 U	0.00049 U	-	0.00049 U	-	-	-	-	-	-
Methylene chloride	mg/kg	0.002 J	-	0.0023 U	0.0016 J	-	0.0048	-	-	-	-	-	-
Naphthalene	mg/kg	0.00067 U	-	0.00067 U	0.00067 U	-	0.00067 U	-	-	-	-	-	-
N-Butylbenzene	mg/kg	0.00044 U	-	0.00044 U	0.00044 U	-	0.00043 J	-	-	-	-	-	-
N-Propylbenzene	mg/kg	0.0004 U	-	0.0004 U	0.0004 U	-	0.0011 J	-	-	-	-	-	-
Styrene	mg/kg	0.00025 U	-	0.00025 U	0.00025 U	-	0.00025 U	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	0.00052 U	-	0.00052 U	0.00052 U	-	0.00052 U	-	-	-	-	-	-
Tetrachloroethene	mg/kg	0.00067 U	-	0.00067 U	0.00067 U	-	0.00067 U	-	-	-	-	-	-
Toluene	mg/kg	0.00038 U	-	0.00038 U	0.00038 U	-	0.0022 J	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	0.00052 U	-	0.00052 U	0.00052 U	-	0.00052 U	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	0.0022 U	-	0.0022 U	0.0022 U	-	0.0022 U	-	-	-	-	-	-
Trichloroethene	mg/kg	0.0011 U	-	0.0011 U	0.0011 U	-	0.0011 U	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	0.00047 U	-	0.00047 U	0.00047 U	-	0.00047 U	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	mg/kg	0.0011 U	-	0.0011 U	0.0011 U	-	0.0011 U	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.00061 U	-	0.00061 U	0.00061 U	-	0.00061 U	-	-	-	-	-	-
Xylenes (total)	mg/kg	0.00084 U	-	0.00084 U	0.00084 U	-	0.0016 J	-	-	-	-	-	-

Notes:

1.2[a]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for unrestricted use
1.8[ab]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for commercial use

Soil Cleanup Objectives - 6 NYCRR Part 375, Subpart 375-6, effective December 14, 2006.
New York State Department of Environmental Conservation.
mg/kg - Milligrams per kilogram
ND - Not detected
J - The result is an estimated value
J+ - The result is an estimated value; biased high
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - feet below ground surface
[1] - (hexavalent/trivalent)
* - No criteria
- - Not analyzed

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-8**	**BH-8**	**BH-8**	**BH-9**	**BH-9**	**BH-9**
Sample ID:		**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-040**	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Sample Depth:		**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**
Parameters	**Units**						
General Chemistry							
Cyanide (total)	mg/kg	-	-	0.48 UJ	-	-	0.48 U
Herbicides							
2,4,5-TP (Silvex)	mg/kg	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	-	-	-	-	-	-
Metals							
Aluminum	mg/kg	-	-	19000	-	-	20000
Antimony	mg/kg	-	-	0.53 U	-	-	0.53 U
Arsenic	mg/kg	-	-	8.0	-	-	9.5
Barium	mg/kg	-	-	120	-	-	120
Beryllium	mg/kg	-	-	0.81	-	-	0.89
Cadmium	mg/kg	-	-	0.74	-	-	0.53
Calcium	mg/kg	-	-	24000	-	-	7500
Chromium	mg/kg	-	-	22	-	-	23
Cobalt	mg/kg	-	-	12	-	-	11
Copper	mg/kg	-	-	46	-	-	**84[a]**
Iron	mg/kg	-	-	31000	-	-	25000
Lead	mg/kg	-	-	**150[a]**	-	-	**150[a]**
Magnesium	mg/kg	-	-	12000	-	-	5500
Manganese	mg/kg	-	-	**2400[a]**	-	-	540
Mercury	mg/kg	-	-	0.17	-	-	0.17
Nickel	mg/kg	-	-	19	-	-	23
Potassium	mg/kg	-	-	3900	-	-	4000
Selenium	mg/kg	-	-	1.7 J	-	-	1.2 J
Silver	mg/kg	-	-	0.50 J	-	-	0.20 U
Sodium	mg/kg	-	-	1600	-	-	270
Thallium	mg/kg	-	-	1.0 J	-	-	0.76 U
Vanadium	mg/kg	-	-	37	-	-	38
Zinc	mg/kg	-	-	**200[a]**	-	-	**230[a]**
Pesticides							
4,4'-DDD	mg/kg	-	-	-	-	-	-
4,4'-DDE	mg/kg	-	-	-	-	-	-
4,4'-DDT	mg/kg	-	-	-	-	-	-
Aldrin	mg/kg	-	-	-	-	-	-
alpha-BHC	mg/kg	-	-	-	-	-	-
alpha-Chlordane	mg/kg	-	-	-	-	-	-
beta-BHC	mg/kg	-	-	-	-	-	-
delta-BHC	mg/kg	-	-	-	-	-	-
Dieldrin	mg/kg	-	-	-	-	-	-
Endosulfan I	mg/kg	-	-	-	-	-	-
Endosulfan II	mg/kg	-	-	-	-	-	-
Endosulfan sulfate	mg/kg	-	-	-	-	-	-
Endrin	mg/kg	-	-	-	-	-	-
Endrin aldehyde	mg/kg	-	-	-	-	-	-
Endrin ketone	mg/kg	-	-	-	-	-	-
gamma-BHC (lindane)	mg/kg	-	-	-	-	-	-
gamma-Chlordane	mg/kg	-	-	-	-	-	-
Heptachlor	mg/kg	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	-	-	-	-	-	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-8**	**BH-8**	**BH-8**	**BH-9**	**BH-9**	**BH-9**
Sample ID:		**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-040**	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Sample Depth:		**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**
Parameters	**Units**						
Methoxychlor	mg/kg	-	-	-	-	-	-
Toxaphene	mg/kg	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	0.049 U	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	0.049 U	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	0.049 U	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	0.049 U	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	0.049 U	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	0.12 U	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	0.12 U	-	-
Total PCBs	mg/kg				ND		
Semi-volatile Organic Compounds (SVOCs)							
1,4-Dioxane	mg/kg	-	0.055 U	-	-	0.055 U	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) eth	mg/kg	-	0.034 U	-	-	0.034 U	-
2,4,5-Trichlorophenol	mg/kg	-	0.046 U	-	-	0.046 U	-
2,4,6-Trichlorophenol	mg/kg	-	0.034 U	-	-	0.034 U	-
2,4-Dichlorophenol	mg/kg	-	0.018 U	-	-	0.018 U	-
2,4-Dimethylphenol	mg/kg	-	0.041 U	-	-	0.041 U	-
2,4-Dinitrophenol	mg/kg	-	0.78 U	-	-	0.78 U	-
2,4-Dinitrotoluene	mg/kg	-	0.035 U	-	-	0.035 U	-
2,6-Dinitrotoluene	mg/kg	-	0.02 U	-	-	0.02 U	-
2-Chloronaphthalene	mg/kg	-	0.028 U	-	-	0.028 U	-
2-Chlorophenol	mg/kg	-	0.031 U	-	-	0.031 U	-
2-Methylnaphthalene	mg/kg	-	0.034 U	-	-	0.084 J	-
2-Methylphenol	mg/kg	-	0.02 U	-	-	0.02 U	-
2-Nitroaniline	mg/kg	-	0.025 U	-	-	0.025 U	-
2-Nitrophenol	mg/kg	-	0.048 U	-	-	0.048 U	-
3,3'-Dichlorobenzidine	mg/kg	-	0.2 U	-	-	0.2 U	-
3-Nitroaniline	mg/kg	-	0.047 U	-	-	0.047 U	-
4,6-Dinitro-2-methylphenol	mg/kg	-	0.17 U	-	-	0.17 U	-
4-Bromophenyl phenyl ether	mg/kg	-	0.024 U	-	-	0.024 U	-
4-Chloro-3-methylphenol	mg/kg	-	0.042 U	-	-	0.042 U	-
4-Chloroaniline	mg/kg	-	0.042 U	-	-	0.042 U	-
4-Chlorophenyl phenyl ether	mg/kg	-	0.021 U	-	-	0.021 U	-
4-Methylphenol	mg/kg	-	0.02 U	-	-	0.02 U	-
4-Nitroaniline	mg/kg	-	0.089 U	-	-	0.089 U	-
4-Nitrophenol	mg/kg	-	0.12 U	-	-	0.12 U	-
Acenaphthene	mg/kg	-	0.025 U	-	-	0.025 U	-
Acenaphthylene	mg/kg	-	0.054 J	-	-	0.022 U	-
Acetophenone	mg/kg	-	0.023 U	-	-	0.023 U	-
Anthracene	mg/kg	-	0.12 J	-	-	0.042 U	-
Atrazine	mg/kg	-	0.059 U	-	-	0.059 U	-
Benzaldehyde	mg/kg	-	0.14 U	-	-	0.14 U	-
Benzo(a)anthracene	mg/kg	-	0.54	-	-	0.15 J	-
Benzo(a)pyrene	mg/kg	-	0.31	-	-	0.15 J	-
Benzo(b)fluoranthene	mg/kg	-	0.43	-	-	0.2 J	-
Benzo(g,h,i)perylene	mg/kg	-	0.18 J	-	-	0.13 J	-
Benzo(k)fluoranthene	mg/kg	-	0.24	-	-	0.084 J	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	0.025 U	-	-	0.025 U	-
bis(2-Chloroethoxy)methane	mg/kg	-	0.036 U	-	-	0.036 U	-
bis(2-Chloroethyl)ether	mg/kg	-	0.022 U	-	-	0.022 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	0.058 U	-	-	0.058 U	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-8**	**BH-8**	**BH-8**	**BH-9**	**BH-9**	**BH-9**
Sample ID:		**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-040**	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Sample Depth:		**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**
Parameters	**Units**						
Butyl benzylphthalate (BBP)	mg/kg	-	0.028 U	-	-	0.028 U	-
Caprolactam	mg/kg	-	0.051 U	-	-	0.051 U	-
Carbazole	mg/kg	-	0.082 J	-	-	0.02 U	-
Chrysene	mg/kg	-	0.5	-	-	0.17 J	-
Dibenz(a,h)anthracene	mg/kg	-	0.047 J	-	-	0.039 J	-
Dibenzofuran	mg/kg	-	0.02 U	-	-	0.033 J	-
Diethyl phthalate	mg/kg	-	0.022 U	-	-	0.022 U	-
Dimethyl phthalate	mg/kg	-	0.02 U	-	-	0.02 U	-
Di-n-butylphthalate (DBP)	mg/kg	-	0.029 U	-	-	0.029 U	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	0.02 U	-	-	0.02 U	-
Fluoranthene	mg/kg	-	1.3	-	-	0.28	-
Fluorene	mg/kg	-	0.03 J	-	-	0.02 U	-
Hexachlorobenzene	mg/kg	-	0.023 U	-	-	0.023 U	-
Hexachlorobutadiene	mg/kg	-	0.025 U	-	-	0.025 U	-
Hexachlorocyclopentadiene	mg/kg	-	0.023 U	-	-	0.023 U	-
Hexachloroethane	mg/kg	-	0.022 U	-	-	0.022 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	0.15 J	-	-	0.097 J	-
Isophorone	mg/kg	-	0.036 U	-	-	0.036 U	-
Naphthalene	mg/kg	-	0.04 J	-	-	0.04 J	-
Nitrobenzene	mg/kg	-	0.019 U	-	-	0.019 U	-
N-Nitrosodi-n-propylamine	mg/kg	-	0.029 U	-	-	0.029 U	-
N-Nitrosodiphenylamine	mg/kg	-	0.14 U	-	-	0.14 U	-
Pentachlorophenol	mg/kg	-	0.17 U	-	-	0.17 U	-
Phenanthrene	mg/kg	-	0.41	-	-	0.21	-
Phenol	mg/kg	-	0.026 U	-	-	0.026 U	-
Pyrene	mg/kg	-	1	-	-	0.24	-
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	0.00036 U	0.00036 U	-	-	0.00036 U	-
1,1,2,2-Tetrachloroethane	mg/kg	0.00081 U	0.00081 U	-	-	0.00081 U	-
1,1,2-Trichloroethane	mg/kg	0.00065 U	0.00065 U	-	-	0.00065 U	-
1,1-Dichloroethane	mg/kg	0.00061 U	0.00061 U	-	-	0.00061 U	-
1,1-Dichloroethene	mg/kg	0.00061 U	0.00061 U	-	-	0.00061 U	-
1,2,4-Trichlorobenzene	mg/kg	0.0003 U	0.0003 U	-	-	0.0003 U	-
1,2,4-Trimethylbenzene	mg/kg	0.00096 U	0.00096 U	-	-	0.00096 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0025 U	0.0025 U	-	-	0.0025 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.00064 U	0.00064 U	-	-	0.00064 U	-
1,2-Dichlorobenzene	mg/kg	0.00039 U	0.00039 U	-	-	0.00039 U	-
1,2-Dichloroethane	mg/kg	0.00025 U	0.00025 U	-	-	0.00025 U	-
1,2-Dichloropropane	mg/kg	0.0025 U	0.0025 U	-	-	0.0025 U	-
1,3,5-Trimethylbenzene	mg/kg	0.00032 U	0.00032 U	-	-	0.00032 U	-
1,3-Dichlorobenzene	mg/kg	0.00026 U	0.00026 U	-	-	0.00026 U	-
1,4-Dichlorobenzene	mg/kg	0.0007 U	0.0007 U	-	-	0.0007 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.0018 U	0.027	-	-	0.0018 U	-
2-Hexanone	mg/kg	0.0025 U	0.0025 U	-	-	0.0025 U	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	0.00044 U	0.00044 U	-	-	0.00044 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.0016 U	0.0016 U	-	-	0.0016 U	-
Acetone	mg/kg	0.044	**0.14[a]**	-	-	0.0042 U	-
Benzene	mg/kg	0.00025 U	0.00025 U	-	-	0.00025 U	-
Bromodichloromethane	mg/kg	0.00067 U	0.00067 U	-	-	0.00067 U	-
Bromoform	mg/kg	0.0025 U	0.0025 U	-	-	0.0025 U	-
Bromomethane (Methyl bromide)	mg/kg	0.00045 U	0.00045 U	-	-	0.00045 U	-
Carbon disulfide	mg/kg	0.0025 U	0.0025 U	-	-	0.0025 U	-
Carbon tetrachloride	mg/kg	0.00048 U	0.00048 U	-	-	0.00048 U	-

Table 4.1

Soil Analytical Results - Non-PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:		**BH-8**	**BH-8**	**BH-8**	**BH-9**	**BH-9**	**BH-9**
Sample ID:		**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-040**	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**
Sample Date:		**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Sample Depth:		**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**
Parameters	**Units**						
Chlorobenzene	mg/kg	0.00066 U	0.00066 U	-	-	0.00066 U	-
Chloroethane	mg/kg	0.0011 U	0.0011 U	-	-	0.0011 U	-
Chloroform (Trichloromethane)	mg/kg	0.00031 U	0.00031 U	-	-	0.00031 U	-
Chloromethane (Methyl chloride)	mg/kg	0.0003 U	0.0003 U	-	-	0.0003 U	-
cis-1,2-Dichloroethene	mg/kg	0.00064 U	0.00064 U	-	-	0.00064 U	-
cis-1,3-Dichloropropene	mg/kg	0.00072 U	0.00072 U	-	-	0.00072 U	-
Cyclohexane	mg/kg	0.0007 U	0.0007 U	-	-	0.0007 U	-
Cymene (p-Isopropyltoluene)	mg/kg	0.0004 U	0.0003 J	-	-	0.0004 U	-
Dibromochloromethane	mg/kg	0.00064 U	0.00064 U	-	-	0.00064 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.00041 U	0.00041 U	-	-	0.00041 U	-
Ethylbenzene	mg/kg	0.00035 U	0.00035 U	-	-	0.00035 U	-
Isopropyl benzene	mg/kg	0.00075 U	0.00075 U	-	-	0.00075 U	-
Methyl acetate	mg/kg	0.003 U	0.003 U	-	-	0.003 U	-
Methyl cyclohexane	mg/kg	0.00076 U	0.00076 U	-	-	0.00076 U	-
Methyl tert butyl ether (MTBE)	mg/kg	0.00049 U	0.00049 U	-	-	0.00049 U	-
Methylene chloride	mg/kg	0.0023 U	0.0019 J	-	-	0.0023 U	-
Naphthalene	mg/kg	0.00067 U	0.00067 U	-	-	0.00067 U	-
N-Butylbenzene	mg/kg	0.00044 U	0.00044 U	-	-	0.00044 U	-
N-Propylbenzene	mg/kg	0.0004 U	0.0004 U	-	-	0.0004 U	-
Styrene	mg/kg	0.00025 U	0.00025 U	-	-	0.00025 U	-
tert-Butylbenzene	mg/kg	0.00052 U	0.00052 U	-	-	0.00052 U	-
Tetrachloroethene	mg/kg	0.00067 U	0.00067 U	-	-	0.00067 U	-
Toluene	mg/kg	0.00038 U	0.00038 U	-	-	0.00038 U	-
trans-1,2-Dichloroethene	mg/kg	0.00052 U	0.00052 U	-	-	0.00052 U	-
trans-1,3-Dichloropropene	mg/kg	0.0022 U	0.0022 U	-	-	0.0022 U	-
Trichloroethene	mg/kg	0.0011 U	0.0011 U	-	-	0.0011 U	-
Trichlorofluoromethane (CFC-11)	mg/kg	0.00047 U	0.00047 U	-	-	0.00047 U	-
Trifluorotrichloroethane (CFC-113)	mg/kg	0.0011 U	0.0011 U	-	-	0.0011 U	-
Vinyl chloride	mg/kg	0.00061 U	0.00061 U	-	-	0.00061 U	-
Xylenes (total)	mg/kg	0.00084 U	0.00084 U	-	-	0.00084 U	-

Notes:

1.2[a]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for unrestricted use
1.8[ab]	Detected concentration exceeds NYSDEC Part 375 Soil Cleanup Objective for commercial use

Soil Cleanup Objectives - 6 NYCRR Part 375, Subpart 375-6, effective December 14, 2006.
New York State Department of Environmental Conservation.
mg/kg - Milligrams per kilogram
ND - Not detected
J - The result is an estimated value
J+ - The result is an estimated value; biased high
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - feet below ground surface
[1] - (hexavalent/trivalent)
* - No criteria
- - Not analyzed

Table 4.2

Soil Analytical Results - PFAS Analytes
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				**BH-11**	**BH-3**	**BH-5**	**BH-5**	**BH-7**	**BH-9**
Sample ID:				**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-024**
Sample Date:				**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/11/2024**
Sample Depth:				**0-4 ft BGS**	**1-2 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**
Sample Depth:		**Guidance Values for Anticipated Site Use**		**0-4 ft BGS**	**1-2 ft BGS**	**3-4 ft BGS**	**Duplicate 3-4 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**
Parameters	**Units**	**Unrestricted**	**Commercial**						
PFAS		a	b						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ug/kg	*	*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	ug/kg	*	*	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ug/kg	*	*	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Fluorotelomer sulfonic acid (4:2)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Fluorotelomer sulfonic acid (6:2)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Fluorotelomer sulfonic acid (8:2)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	ug/kg	*	*	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	ug/kg	*	*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Methyl perfluorooctane sulfonamido acetic acid	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	ug/kg	*	*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
N-Methyl-perfluorooctane sulfonamide	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ug/kg	*	*	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ug/kg	*	*	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	ug/kg	*	*	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	ug/kg	*	*	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Perfluorobutane sulfonic acid (PFBS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorobutanoic acid (PFBA)	ug/kg	*	*	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Perfluorodecanesulfonic acid (PFDS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorodecanoic acid (PFDA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorododecane sulfonic acid (PFDoDS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorododecanoic acid (PFDoDA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorohexane sulfonic acid (PFHxS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorohexanoic acid (PFHxA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorononane sulfonic acid (PFNS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorononanoic acid (PFNA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorooctane sulfonamide (FOSA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorooctane sulfonic acid (PFOS)	ug/kg	0.88	440	0.091 J	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.66	500	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluoropentane sulfonic acid (PFPeS)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluoropentanoic acid (PFPeA)	ug/kg	*	*	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluorotridecanoic acid (PFTrDA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Perfluoroundecanoic acid (PFUnA)	ug/kg	*	*	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U

Notes:

Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, effective April 2023.
New York State Department of Environmental Conservation.
ug/kg - Micrograms per kilogram
J - The result is an estimated value
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
ft BGS - feet below ground surface
* - No criteria

Table 4.3

Groundwater Analytical Results - VOCs
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				TPMW-1	TPMW-2	TPMW-4
Sample ID:				GW-12656942-KP-121024-002	GW-12656942-KP-121024-001	GW-12656942-KP-121024-003
Sample Date:		Class GA Criteria		12/11/2024	12/11/2024	12/11/2024
		Standards	Guidance Values			
Parameters	Units	a	b			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ug/L	5	*	0.82 U	0.82 U	0.82 U
1,1,2,2-Tetrachloroethane	ug/L	5	*	0.21 U	0.21 U	0.21 U
1,1,2-Trichloroethane	ug/L	1	*	0.23 U	0.23 U	0.23 U
1,1-Dichloroethane	ug/L	5	*	0.38 U	0.38 U	0.38 U
1,1-Dichloroethene	ug/L	5	*	0.29 U	0.29 U	0.29 U
1,2,4-Trichlorobenzene	ug/L	5	*	0.41 U	0.41 U	0.41 U
1,2,4-Trimethylbenzene	ug/L	5	*	0.75 U	0.75 U	0.75 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	*	0.39 U	0.39 U	0.39 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0006	*	0.73 U	0.73 U	0.73 U
1,2-Dichlorobenzene	ug/L	3	*	0.79 U	0.79 U	0.79 U
1,2-Dichloroethane	ug/L	0.6	*	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	ug/L	1	*	0.72 U	0.72 U	0.72 U
1,3,5-Trimethylbenzene	ug/L	5	*	0.77 U	0.77 U	0.77 U
1,3-Dichlorobenzene	ug/L	3	*	0.78 U	0.78 U	0.78 U
1,4-Dichlorobenzene	ug/L	3	*	0.84 U	0.84 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	*	50	3.1 J	1.3 U	1.3 U
2-Hexanone	ug/L	*	50	1.2 U	1.2 U	1.2 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	5	*	0.75 U	0.75 U	0.75 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	*	*	2.1 U	2.1 U	2.1 U
Acetone	ug/L	*	50	15 J	17 J	3.0 U
Benzene	ug/L	1	*	0.41 U	0.41 U	0.41 U
Bromodichloromethane	ug/L	*	50	0.39 U	0.39 U	0.39 U
Bromoform	ug/L	*	50	0.26 U	0.26 U	0.26 U
Bromomethane (Methyl bromide)	ug/L	5	-	0.69 U	0.69 U	0.69 U
Carbon disulfide	ug/L	60	60	0.19 U	0.19 U	0.19 U
Carbon tetrachloride	ug/L	5	*	0.27 U	0.27 U	0.27 U
Chlorobenzene	ug/L	5	*	0.75 U	0.75 U	0.75 U
Chloroethane	ug/L	5	*	0.32 U	0.32 U	0.32 U
Chloroform (Trichloromethane)	ug/L	7	*	0.34 U	0.34 U	0.34 U
Chloromethane (Methyl chloride)	ug/L	5	*	0.35 U	0.35 U	0.35 U
cis-1,2-Dichloroethene	ug/L	5	*	0.81 U	0.81 U	0.81 U
cis-1,3-Dichloropropene	ug/L	0.4	*	0.36 U	0.36 U	0.36 U
Cyclohexane	ug/L	*	*	0.18 U	0.18 U	0.18 U
Cymene (p-Isopropyltoluene)	ug/L	5	-	0.31 U	0.31 U	0.31 U
Dibromochloromethane	ug/L	*	50	0.32 U	0.32 U	0.32 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	*	0.68 U	0.68 U	0.68 U
Ethylbenzene	ug/L	5	*	0.74 U	0.74 U	0.74 U
Isopropyl benzene	ug/L	5	*	0.79 U	0.79 U	0.79 U
Methyl acetate	ug/L	*	*	1.3 U	1.3 U	1.3 U
Methyl cyclohexane	ug/L	*	*	0.16 U	0.16 U	0.16 U
Methyl tert butyl ether (MTBE)	ug/L	*	10	0.16 U	0.16 U	0.16 U
Methylene chloride	ug/L	5	*	0.44 U	0.44 U	0.44 U
Naphthalene	ug/L	*	10	0.43 U	0.43 U	0.43 U
N-Butylbenzene	ug/L	5	*	0.64 U	0.64 U	0.64 U
N-Propylbenzene	ug/L	5	*	0.69 U	0.69 U	0.69 U
Styrene	ug/L	5	*	0.73 U	0.73 U	0.73 U
tert-Butylbenzene	ug/L	5	*	0.81 U	0.81 U	0.81 U
Tetrachloroethene	ug/L	5	*	0.36 U	0.36 U	0.36 U
Toluene	ug/L	5	*	0.51 U	0.51 U	0.51 U
trans-1,2-Dichloroethene	ug/L	5	*	0.90 U	0.90 U	0.90 U
trans-1,3-Dichloropropene	ug/L	0.4	*	0.37 U	0.37 U	0.37 U
Trichloroethene	ug/L	5	*	0.46 U	0.46 U	0.46 U
Trichlorofluoromethane (CFC-11)	ug/L	5	*	0.88 U	0.88 U	0.88 U
Trifluorotrichloroethane (CFC-113)	ug/L	5	*	0.31 U	0.31 U	0.31 U
Vinyl chloride	ug/L	2	*	0.90 U	0.90 U	0.90 U
Xylenes (total)	ug/L	5	*	0.66 U	0.66 U	0.66 U

Notes:

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998), Table 1, and April 2000 Addendum.
New York State Department of Environmental Conservation.
µg/L - Micrograms per liter
J - The result is an estimated value
U - Not detected at the associated reporting limit
* - No criteria/not applicable

Table 4.4

Groundwater Analytical Results - SVOCs, Metals and Cyanide
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				**TPMW-2**
Sample ID:				**GW-12656942-KP-121024-001**
Sample Date:		**Class GA Criteria**		**12/11/2024**
		Standards	**Guidance Values**	
Parameters	**Units**	**a**	**b**	
Metals, total				
Aluminum	ug/L	*	*	510
Antimony	ug/L	3	*	6.8 U
Arsenic	ug/L	25	*	5.6 U
Barium	ug/L	1000	*	74
Beryllium	ug/L	*	3	0.3 U
Cadmium	ug/L	5	*	0.5 U
Calcium	ug/L	*	*	150000
Chromium	ug/L	50	*	1.1 J
Cobalt	ug/L	*	*	2.9 J
Copper	ug/L	200	*	1.6 U
Iron	ug/L	300	*	**350[a]**
Lead	ug/L	25	*	3 U
Magnesium	ug/L	*	35000	**51000[b]**
Manganese	ug/L	300	*	260
Mercury	ug/L	0.7	*	0.042 U
Nickel	ug/L	100	*	3.1 J
Potassium	ug/L	*	*	7100
Selenium	ug/L	10	*	8.7 U
Silver	ug/L	50	*	1.7 U
Sodium	ug/L	20000	*	**180000[a]**
Thallium	ug/L	*	0.5	10 U
Vanadium	ug/L	*	*	1.5 U
Zinc	ug/L	*	2000	1.5 U
Metals, dissolved				
Aluminum (dissolved)	ug/L	*	*	60 U
Antimony (dissolved)	ug/L	3	*	6.8 U
Arsenic (dissolved)	ug/L	25	*	5.6 U
Barium (dissolved)	ug/L	1000	*	66
Beryllium (dissolved)	ug/L	*	3	0.3 U
Cadmium (dissolved)	ug/L	5	*	0.5 U
Calcium (dissolved)	ug/L	*	*	170000
Chromium (dissolved)	ug/L	50	*	1 U
Cobalt (dissolved)	ug/L	*	*	2.7 J
Copper (dissolved)	ug/L	200	*	1.6 U
Iron (dissolved)	ug/L	300	*	19 U
Lead (dissolved)	ug/L	25	*	3 U
Magnesium (dissolved)	ug/L	*	35000	**58000[b]**
Manganese (dissolved)	ug/L	300	*	290
Mercury (dissolved)	ug/L	0.7	*	0.042 U
Nickel (dissolved)	ug/L	100	*	3.7 J
Potassium (dissolved)	ug/L	*	*	7000
Selenium (dissolved)	ug/L	10	*	8.7 U
Silver (dissolved)	ug/L	50	*	1.7 U
Sodium (dissolved)	ug/L	20000	*	**180000[a]**
Thallium (dissolved)	ug/L	*	0.5	10 U
Vanadium (dissolved)	ug/L	*	*	1.5 U
Zinc (dissolved)	ug/L	*	2000	1.5 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5	*	0.52 U
2,4,5-Trichlorophenol	ug/L	1	*	0.48 U
2,4,6-Trichlorophenol	ug/L	1	*	0.61 U
2,4-Dichlorophenol	ug/L	5	*	0.51 U
2,4-Dimethylphenol	ug/L	1	50	0.50 U
2,4-Dinitrophenol	ug/L	1	10	2.2 U
2,4-Dinitrotoluene	ug/L	5	*	0.45 U
2,6-Dinitrotoluene	ug/L	5	*	0.40 U
2-Chloronaphthalene	ug/L	*	10	0.46 U
2-Chlorophenol	ug/L	1	*	0.53 U
2-Methylnaphthalene	ug/L	*	*	0.60 U

Table 4.4

Groundwater Analytical Results - SVOCs, Metals and Cyanide
1112 and 1114 Niagara Street
Buffalo, New York

Sample Location:				**TPMW-2**
Sample ID:				**GW-12656942-KP-121024-001**
Sample Date:		**Class GA Criteria**		**12/11/2024**
		Standards	**Guidance Values**	
Parameters	**Units**	**a**	**b**	
2-Methylphenol	ug/L	1	*	0.40 U
2-Nitroaniline	ug/L	5	*	0.42 U
2-Nitrophenol	ug/L	1	*	0.48 U
3,3'-Dichlorobenzidine	ug/L	5	*	0.40 U
3-Nitroaniline	ug/L	5	*	0.48 U
4,6-Dinitro-2-methylphenol	ug/L	1	*	2.2 U
4-Bromophenyl phenyl ether	ug/L	*	*	0.45 U
4-Chloro-3-methylphenol	ug/L	1	*	0.45 U
4-Chloroaniline	ug/L	5	*	0.59 U
4-Chlorophenyl phenyl ether	ug/L	*	*	0.35 U
4-Methylphenol	ug/L	1	*	0.36 U
4-Nitroaniline	ug/L	5	*	0.25 U
4-Nitrophenol	ug/L	1	*	1.5 U
Acenaphthene	ug/L	*	20	0.41 U
Acenaphthylene	ug/L	*	*	0.38 U
Acetophenone	ug/L	*	*	0.61 J+
Anthracene	ug/L	*	50	0.28 U
Atrazine	ug/L	7.5	*	0.46 U
Benzaldehyde	ug/L	*	*	0.27 U
Benzo(a)anthracene	ug/L	*	0.002	0.36 U
Benzo(a)pyrene	ug/L	ND	*	0.47 U
Benzo(b)fluoranthene	ug/L	*	0.002	0.34 U
Benzo(g,h,i)perylene	ug/L	*	*	0.35 U
Benzo(k)fluoranthene	ug/L	*	0.002	0.73 U
Biphenyl (1,1-Biphenyl)	ug/L	5	*	0.65 U
bis(2-Chloroethoxy)methane	ug/L	5	*	0.35 U
bis(2-Chloroethyl)ether	ug/L	1	*	0.40 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5	*	2.2 U
Butyl benzylphthalate (BBP)	ug/L	*	50	1.0 U
Caprolactam	ug/L	*	*	2.8 J+
Carbazole	ug/L	*	*	0.30 U
Chrysene	ug/L	*	0.002	0.33 U
Dibenz(a,h)anthracene	ug/L	*	*	0.42 U
Dibenzofuran	ug/L	*	*	0.51 U
Diethyl phthalate	ug/L	*	50	0.60 J+
Dimethyl phthalate	ug/L	*	50	4.1 J+
Di-n-butylphthalate (DBP)	ug/L	50	*	0.69 J+
Di-n-octyl phthalate (DnOP)	ug/L	*	50	0.47 U
Fluoranthene	ug/L	*	50	0.40 U
Fluorene	ug/L	*	50	0.36 U
Hexachlorobenzene	ug/L	0.04	*	0.51 U
Hexachlorobutadiene	ug/L	0.5	*	0.68 U
Hexachlorocyclopentadiene	ug/L	5	*	0.59 U
Hexachloroethane	ug/L	5	*	0.59 U
Indeno(1,2,3-cd)pyrene	ug/L	*	0.002	0.47 U
Isophorone	ug/L	*	50	0.43 U
Naphthalene	ug/L	*	10	0.76 U
Nitrobenzene	ug/L	0.4	*	0.29 U
N-Nitrosodi-n-propylamine	ug/L	*	*	0.54 U
N-Nitrosodiphenylamine	ug/L	*	50	0.51 U
Pentachlorophenol	ug/L	1	*	2.2 U
Phenanthrene	ug/L	*	50	0.44 U
Phenol	ug/L	1	*	**1.2 J+[a]**
Pyrene	ug/L	*	50	0.34 U
General Chemistry				
Cyanide (total)	ug/L	200	*	4.1 U

Notes:

350 Detected concentration exceeds Class GA Standard or Guidance Value
Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998), Table 1, and April 2000 Addendum.
New York State Department of Environmental Conservation.
µg/L - Micrograms per liter
ND - Non-detect
J - The result is an estimated value
J+ - The result is an estimated value; biased high
U - Not detected at the associated reporting limit
* - No criteria/not applicable

Table 4.5

Groundwater Analytical Results - 1,4-Dioxane
1112 and 1114 Niagara Street
Buffalo, New York

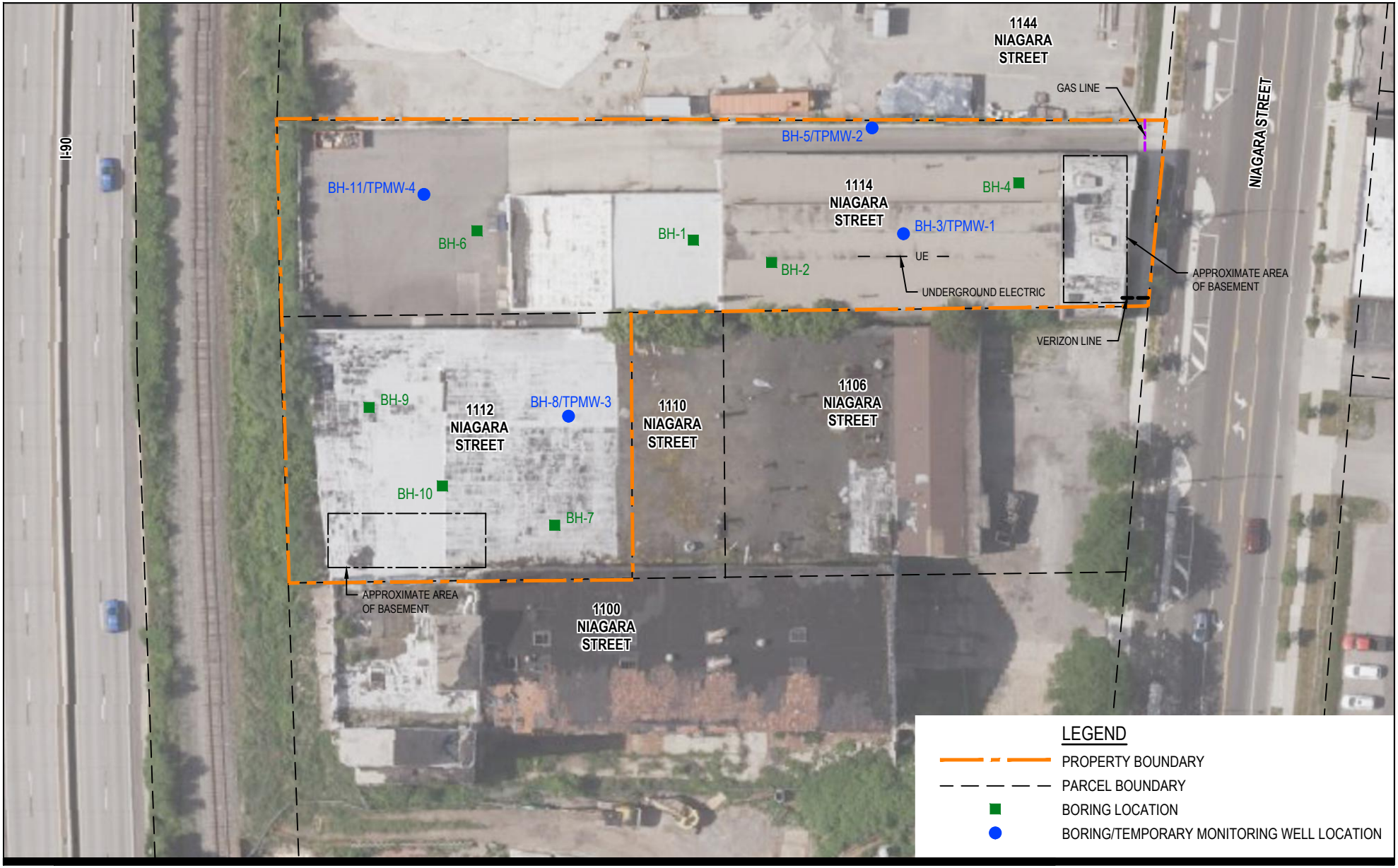
Sample Location:				**TPMW-2**
Sample ID:				**GW-12656942-KP-121024-011**
Sample Date:				**12/11/2024**
		NYS MCL	**NYS Guidance Value**	
Parameters	**Units**	**a**	**b**	
SVOAsSIM				
1,4-Dioxane	ug/L	1	0.35	3.4[ab]

Notes:

3.4[a]	Detected concentration exceeds NYS MCL
3.4[ab]	Detected concentration exceeds NYS MCL and NYS Guidance Values

New York State (NYS) Maximum Contaminant Level (MCL), effective 2020.
New York State (NYS) Class GA Groundwater Guidance Values, effective 2023. Amendment to 1998 Division of Water Technical and Operational Guidelines (TOGS) NO 1.1.1
µg/L - Micrograms per liter

Figures



NOTES:
- ALL BORING/WELL LOCATIONS ARE APPROXIMATE.
- SITE FEATURES ARE APPROXIMATE.

0 30 60 ft
1" = 60 ft
Coordinate System:
STATE PLANE
NY83-WF

N

GHD

FORMER OLIVER GEAR AND MODERN HEAT TREATING PROPERTIES
1112 AND 1114 NIAGARA STREET
BUFFALO, NEW YORK

SITE PLAN

Project No. **12656942**
Date **February 2025**

FIGURE 1

Filename: N:\US\Buffalo\Projects\564\12656942\Digital_Design\ACAD\Figures\RPT002\12656942-GHD-00-00-RPT-EN-D101_WA-002.dwg
Plot Date: 04 February 2025 10:54 AM

Image Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Accessed: 2024

Attachments

Attachment A

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-1
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 11.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.50			FILL-SILTY SAND, pieces of brick, some cinders, compact, brown black, moist	1	95			0.9		
3.00			CL-CLAY, trace silt, moderate plasticity, firm, dark brown black, moist - stiff, light brown red, dry at 4.00ft BGS	2	100			0.7		
				3	100			0.7		
11.00			End of Drilling at 11.00 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	11.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-2
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 11.50 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.75			CL-CLAY, with silt, firm, moderate plasticity, light brown red, moist	1	0					
				2	98			3.1		
				3	100					
11.50			End of Drilling at 11.50 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	11.50

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-3/TPMW-1
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

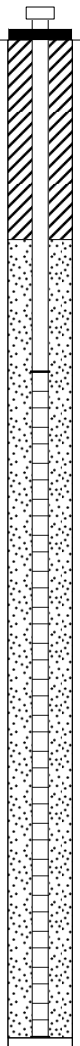
Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 15.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)
0.00			CONCRETE						
0.50			FILL, cinders, some slag, black					0.3	
1.00			CL-CLAY, with silt, firm, moderate plasticity, brown, moist					0.2	
				1	98			0.2	
				2	100			0.1	
								0.2	
			- trace fine gravel at 8.00ft BGS					0.2	
				3	100			0.2	
			- stiff, light brown red, dry at 12.00ft BGS					0.2	
				4	97				▼
			- soft, wet at 14.00ft BGS					0.2	
15.00			End of Drilling at 15.00 ft. Termination Note: Refusal.						

Monitoring Well



DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:13.90 ft **on**

Screened Interval:
Length: 10 ft
5.00 to 15.00 ft BGS

Diameter: inch
Slot Size: inch
Material:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Bentonite	0.00	3.00
Sand	3.00	15.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-4
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 12.50 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.50			FILL-SILTY SAND, cinders, some slag, black	1	53			0.3		
								1.5		
4.00			- black brown, gray, brick pieces at 4.00ft BGS					0.5		
4.50			CL-CLAY, with silt, firm, moderate plasticity, brown, moist	2	100			0.1		
8.00			- trace gravel at 8.00ft BGS							
				3	98			0.3		
								2		
12.00				4	0			1.4		
12.50			End of Drilling at 12.50 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	12.50

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-5/TPMW-2
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

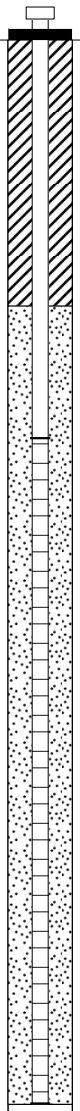
Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 16.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)
0.00			ASHPALT						
0.50			CONCRETE						
1.00			FILL-SILTY SAND, some cinders, gray, brown, wet	1	73			0.3	
3.00			CL-CLAY, with silt, firm, medium plasticity, brown, moist					0.2	
			- petroleum type odor at 4.00ft BGS	2	100			0.8	
								0.5	
			- trace gravel, fine gravel, gray, wet at 7.50ft BGS						▼
			- no gravel, trace fine sand, soft, low plasticity, brown black, very moist, slight petroleum type odor at 8.00ft BGS	3	100			0	
			- no odor, no sand, moist, firm, brown at 10.00ft BGS					0	
				4	100			0.1	
								0.1	
16.00			End of Drilling at 16.00 ft.						

Monitoring Well



DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:7.80 ft **on**

Screened Interval:
Length: 10 ft
6.00 to 16.00 ft BGS

Diameter: inch
Slot Size: inch
Material:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Bentonite	0.00	4.00
Sand	4.00	16.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-6
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 10.50 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			ASPHALT							
0.20			FILL-SILTY SAND, some cinders, some slag, few pieces organic material, brown black, slight unknown odor	1	95			4.2		
3.00			SM-SILTY SAND, compact, brown, moist					0		
4.00			CL-CLAY with silt, firm, moderate plasticity, brown, moist	2	100			0.6		
			- very stiff at 6.00ft BGS					0		
			- trace fine gravel at 8.00ft BGS	3	100			0		
10.50			End of Drilling at 10.50 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	10.50

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-7
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 14.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.50			FILL-SILTY SAND, some brick pieces, trace fine gravel, compact, gray, brown, moist					0.1		
2.00			CL-CLAY, with silt, stiff, moderate plasticity, brown, moist	1	88			0		
			- trace gravel, very stiff at 4.00ft BGS	2	100			0		
								0.1		
			- no gravel, trace fine sand, low plasticity, soft, brown black, very moist, slight petroleum type odor at 8.00ft BGS	3	100			0.1		
								0		
				4	100			0.2		
14.00			End of Drilling at 14.00 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
At Time of Drilling:
After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	14.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-8/TPMW-3
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

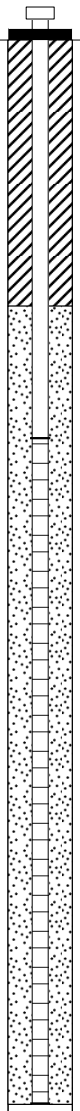
Date Started: 12/10/2024
Date Completed: 12/10/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 16.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)
0.00			CONCRETE						
0.50			FILL-SILTY SAND, with gravel, some cinders, brown black, compact, moist					0.4	
1.50			CL-CLAY, with silt, trace fine gravel, firm to stiff, moderate plasticity, dark brown, moist	1	83			0.2	
								0.1	
			- brown at 4.00ft BGS	2	95			0.1	
								0.1	
			- stiff at 8.00ft BGS	3	100			0	
								0.2	
				4	100			0.2	
								1.4	
16.00			End of Drilling at 16.00 ft.						

Monitoring Well



DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:Dry

Screened Interval:
Length: 10 ft
6.00 to 16.00 ft BGS

Diameter: inch
Slot Size: inch
Material:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Bentonite	0.00	4.00
Sand	4.00	16.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-9
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/11/2024
Date Completed: 12/11/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 8.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.50			FILL-SILTY SAND, with gravel, some clay, cinders, compact, dark brown, moist	1	85			0.3		
3.00			FILL-SILTY CLAY, cinders, brick pieces, compact, dark brown, black, moist					0.5		
4.00			CL-CLAY, trace gravel, stiff, moderate plasticity, brown, moist	2	100			0.2		
			- firm at 6.00ft BGS					0.4		
8.00			End of Drilling at 8.00 ft.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	8.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-10
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

Date Started: 12/11/2024
Date Completed: 12/11/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 12.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)	Backfill
0.00			CONCRETE							
0.50			FILL-SILTY SAND, with clay, cinders, some brick pieces, compact, brown, moist	1	95			0.2		
3.00			CL-SILTY CLAY, trace fine gravel, firm, moderate plasticity, brown, moist					0.1		
				2	100			0.1		
								0.3		
			- moist, very stiff at 8.00ft BGS	3	100			0.2		
								0.7		
12.00			End of Drilling at 12.00 ft. Termination Note: Refusal.							

DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Concrete	0.00	0.10
Drill Cuttings	0.10	12.00

STRATIGRAPHIC AND INSTRUMENTATION RECORD
(Overburden)

BH-11/TPMW-4
Project No: 12656942

Client: Jenesis Development LLC
Project: Jenesis 1112 Niagara Environmental Services
Location: 1112 and 1114 Niagara St, Buffalo, NY

Drill Co.: TREC Environmental, Inc.
Drilling Method(s): Geoprobe

Easting: **Northing:**
Horiz. Datum: NAD 1983 StatePlane New York West FIPS 3103 Feet
Elev. Datum:

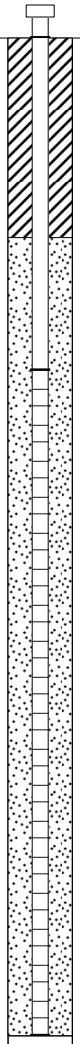
Date Started: 12/11/2024
Date Completed: 12/11/2024

Logged By: Maggie Popek/Kathryn Ploss
Reviewed By:

Final Depth: 15.00 ft
Hole Diameter(s):

Depth (Feet)	Elevation (Feet)	Strat Symbol	Stratigraphy	Run Number	Recovery %	Sample Number	Analysis	PID (ppm)	Water Level(s)
0.00									
0.20			ASPHALT FILL-SILTY SAND, cinders, some brick pieces, compact, dark brown black, moist	1	98			2.9	
4.00			CL-CLAY, with silt, trace fine gravel, firm, moderate plasticity, brown, moist	2	100			0.5 0	
			- very stiff at 7.00ft BGS	3	100			0.1 0	
				4	100			0	▼
			- very soft, wet at 14.00ft BGS					0.2	
15.00			End of Drilling at 15.00 ft. Termination Note: Refusal.						

Monitoring Well



DRAFT

Legend:
Measuring Point Elevation may change; Refer to Current Elevation Table
▽ At Time of Drilling:
▼ After Drilling:12.55 ft **on**

Screened Interval:
Length: 10 ft
5.00 to 15.00 ft BGS

Diameter: inch
Slot Size: inch
Material:

Backfill Details

Description	From(ft BGS)	To(ft BGS)
Bentonite	0.00	3.00
Sand	3.00	15.00

Attachment B

Data Validation Report

February 7, 2025

To	Katherine Galanti	**Project No.**	12656942
Copy to	Maggie Popek; Kathryn Ploss	**DVR No.**	1
From	Christopher Arcuri/cs/1-NF	**Contact No.**	717.585.6408
Project Name	Jenesis 1112 Niagara Environmental Services	**Email**	Christopher.Arcuri@ghd.com
Subject	Data Usability Summary Report Limited Phase II Environmental Site Assessment Former Oliver Gear and Modern Heat Treating Properties Buffalo, New York December 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details the validation and data usability of analytical results for groundwater and soil samples collected in support of the Limited Phase II Environmental Site Assessment at the Former Oliver Gear and Modern Heat Treating Properties in Buffalo, New York during December 2024. Samples were submitted to Eurofins Environment Testing located in Amherst, New York, and Per/Polyfluorinated Alkyl Substance (PFAS) analysis was subcontracted to Eurofins Environment Testing located in Barberton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation "DER 10, Technical Guidance for Site Investigation and Remediation, Appendix 2B Guidance for Data Deliverables and the Development of Data Usability Summary Reports," (DER 10) May 2010.

2. Analytical Methodology and Data Validation

Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 542 R 20 006, November 2020.
2. "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540 R 20 005, November 2020.

These items will subsequently be referred to as the "Guidelines" in this report.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results, supporting quality assurance/quality control (QA/QC) and all raw data provided.

3. Deliverables

The data packages were complete as defined under the requirements for Analytical Services Protocol (ASP) Category B deliverables.

4. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

5. Gas Chromatography/Mass Spectrometer (GC/MS) and Liquid Chromatography/Mass Spectrometry (LC-MS/MS) – Tuning and Mass Calibration – Instrument Performance Checks

5.1 Organic Analyses

Prior to volatile organic compound (VOC), 1,4-dioxane and semi-volatile organic compound (SVOC) analyses, the GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC, 1,4-dioxane, and SVOC methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP). The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC, 1,4-dioxane, and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

5.2 Organic Analyses – LC-MS/MS

Prior to PFAS analysis, the LC-MS/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound sodium iodide/cesium iodide (NaCsI). The resulting spectra must meet the criteria cited in the laboratory Standard Operating Procedure (SOP) before analysis is initiated.

Tuning compounds were analyzed at the required frequency throughout analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

5.3 GC Analyses

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence (every 12 hours). The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown. Breakdown shall not exceed 20 percent for individual compounds or 30 percent for combined compounds.

PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

6. Initial Calibration - Organic Analyses

6.1 GC/MS

To quantify VOCs, 1,4-dioxane and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. All relative response factors (RRFs) must be greater than or equal to the method acceptance criteria.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent or a minimum coefficient of determination (R^2) of 0.99 if linear and quadratic regression calibration curves are used.

The initial calibration data for VOCs, 1,4-dioxane and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

6.2 LC-MS/MS

In order to quantify PFAS compounds of interest by LC-MS/MS, calibration of the liquid chromatograph over a specific concentration range must be performed. Initially, a minimum six-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

1. Sufficient instrument sensitivity is established if a signal-to-noise ratio ≥ 3:1 can be achieved when analyzing the lowest concentration standard.
2. The percent relative standard deviation (%RSD) values must not exceed 20.0 percent for each native and isotopically labeled compound.

The initial calibration data for PFAS were reviewed. All compounds met the above criteria for sensitivity and linearity.

6.3 GC – External Standard Calibration

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest and for polychlorinated biphenyls (PCBs) (Aroclors 1016 and 1260). A single calibration standard is analyzed for all other multi-response compounds. Linearity of the calibration curve are evaluated against the following criteria:

1. The percent relative standard deviation (%RSD) values are less than or equal to 20.0 percent (25.0 percent for alpha BHC and delta BHC; 30.0 percent for toxaphene), or
2. A minimum coefficient of determination (R2) of 0.99 if linear and quadratic regression calibration curves are used.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

7. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For Inductively Coupled Plasma (ICP)/atomic emission spectroscopy (AES) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve and the resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve and the resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/AES, ICP/MS	**Metals**	**90 - 110%**
Cold Vapor AA	**Mercury**	**85 - 115%**
Instrumental General Chemistry	**Cyanide**	**85 - 115%**

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all the above specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

8. Continuing Calibration - Organic Analyses

8.1 GC/MS

To ensure that instrument calibration for VOC, 1,4-dioxane and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

1. All RRF values must be greater than or equal to the method acceptance criteria.
2. Percent difference (%D) or %Drift values must not exceed 20.0 percent.

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability.

8.2 LC-MS/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed at the beginning and end of each group of analyses, and after every tenth sample during the analysis period and compared to the initial calibration.

The following criteria were employed to evaluate continuing calibration data: The percent difference (%D) for the native compound and the isotopically labeled compound must not exceed 30.0 percent.

Calibration standards were analyzed at the required frequency, and all results met the above criteria for instrument sensitivity and stability.

8.3 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. All %D values should not exceed 25.0 percent (30.0 percent for surrogates). To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

9. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

10. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

10.1 Organic Analyses

Most method blank results were non-detect with the exception of low concentrations of chloroform. Table 4 presents the sample results that were qualified as non-detect due to analyte concentrations that were similar to the method blank values.

10.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 4).

11. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for VOCs, 1,4-dioxane and SVOCs, PCBs and pesticides are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

High surrogate recoveries do not impact any associated non detect sample results.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. For SVOC analyses, it is generally acceptable for there to be one outlying surrogate in the base/neutral or acid fraction provided that the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Most surrogate recoveries were within the laboratory criteria. Table 5 presents the sample results that were qualified as estimated due to high surrogate recoveries.

12. Isotope Dilution Analyte (IDA) Spike Recoveries

IDA data were evaluated for all PFAS sample analyses. IDAs are isotopically labeled analogs of the analytes of interest added to the investigative and QC samples at the time of extraction. All sample results are then calculated as a ratio of the IDA responses.

The IDA recovery results for each sample were evaluated against the laboratory established recovery criteria. Most IDA recoveries were within the specified control limits. Several high recoveries were noted, and the associated results were qualified as estimated (see Table 6).

13. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, 1,4-dioxane, SVOC, and ICP/AES metals sample analyses.

13.1 Organics Analyses

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results, IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

1. The retention time of the IS must not vary more than ±30 seconds (±10 seconds for VOCs) from the associated calibration standard.
2. IS area counts must not vary by more than a factor of two (50 percent to +100 percent) from the associated calibration standard.

All organic IS recoveries and retention times met the above criteria.

13.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/AES. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 30-125 percent.

All inorganic IS recoveries were acceptable, demonstrating adequate analytical performance.

14. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

High LCS recoveries and/or RPD values do not impact any associated non-detect sample results.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

14.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest. All LCS recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision (where applicable).

14.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory limits. All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

15. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS or MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, or, if the sample is diluted five times or greater, the recovery is not assessed. If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

MS or MS/MSD analyses were performed as specified in Table 1.

15.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. Most percent recoveries and RPD values were within the laboratory control limits. Sample results that were qualified due to outlying MS/MSD recoveries and/or RPDs are presented in Table 7.

15.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated per the "Guidelines" using the laboratory control limits. Most percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision (where applicable). Sample results that were qualified or rejected due to outlying MS/MSD recoveries and/or RPDs are presented in Table 7.

16. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines" using the laboratory control limits.

All duplicate analyses met the above criteria demonstrating acceptable analytical precision.

17. ICP/AES Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 20 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

18. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

19. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and five field duplicate sample sets.

19.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

19.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, five field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is two times the RL value.

All field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision.

20. Dual Column Reporting

Pesticide and PCB analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns. Variability of greater than 40 RPD was observed between some of the results. The associated data were qualified in Table 8 as estimated.

21. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this report. Non-detect data were reported down to the laboratory's sample-specific MDL for each analyte.

All soil results were reported on a dry weight basis.

22. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

23. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2A and 2B are acceptable with the specific exceptions and qualifications noted herein.

Regards,

Christopher Arcuri
Chemistry Data Validator/Analytical Coordinator

Table 1

Sample Collection and Analysis Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Sample Delivery Group	Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters												Comments
								PFAS	Metals	Metals, STLC	Mercury	Mercury, STLC	Pesticides	PCBs	Herbicides	VOCs	SVOCs	1,4-Dioxane	Cyanide	
4802261701	SO-12656942-KP-121024-004	BH1	Soil	3	4	12/10/2024	10:00		X		X								X	
4802262091	SO-12656942-KP-121024-010	BH10	Soil	3	4	12/11/2024	10:10		X		X								X	MS/MSD
	SO-12656942-KP-121024-025	BH10	Soil	10	12	12/11/2024	10:10									X				
	SO-12656942-KP-121024-023	BH10	Soil	0	3	12/11/2024	10:10						X		X					MS/MSD
	SO-12656942-KP-121024-009	BH11	Soil	4	6	12/11/2024	9:25									X	X			
	SO-12656942-KP-121024-026	BH11	Soil	0	4	12/11/2024	9:25		X		X						X		X	
	SO-12656942-KP-121024-027	BH11	Soil	0	4	12/11/2024	9:25						X	X	X					
	SO-12656942-KP-121024-028	BH11	Soil	0	4	12/11/2024	9:25	X												MS/MSD
4802261701	SO-12656942-KP-121024-003	BH2	Soil	4	8	12/10/2024	10:30									X	X			
	SO-12656942-KP-121024-020	BH3	Soil	1	2	12/10/2024	11:10	X												DUP
	SO-12656942-KP-121024-002	BH3	Soil	2	4	12/10/2024	11:10		X		X								X	
	SO-12656942-KP-121024-013	BH3	Soil	2	4	12/10/2024	11:10						X	X	X					
	SO-12656942-KP-121024-001	BH3	Soil	8	10	12/10/2024	11:10									X	X			MS/MSD
	SO-12656942-KP-121024-019	BH4	Soil	0	4	12/10/2024	13:00						X	X	X					
	SO-12656942-KP-121024-014	BH5	Soil	3	4	12/10/2024	13:45	X												
	SO-12656942-KP-121024-033	BH5	Soil	3	4	12/10/2024	13:45	X												FD(SO-12656942-KP-121024-014)
	SO-12656942-KP-121024-005	BH5	Soil	4	6	12/10/2024	13:45									X	X			
	SO-12656942-KP-121024-029	BH5	Soil	4	6	12/10/2024	13:45									X				FD(SO-12656942-KP-121024-005)
	SO-12656942-KP-121024-030	BH5	Soil	4	6	12/10/2024	13:45										X			FD(SO-12656942-KP-121024-005)
	SO-12656942-KP-121024-006	BH6	Soil	4	6	12/10/2024	14:30		X		X								X	
	SO-12656942-KP-121024-031	BH6	Soil	4	6	12/10/2024	14:30		X		X								X	FD(SO-12656942-KP-121024-006)
	SO-12656942-KP-121024-017	BH6	Soil	0	3	12/10/2024	14:30									X				
	SO-12656942-KP-121024-018	BH6	Soil	0	3	12/10/2024	14:30		X		X						X		X	
	SO-12656942-KP-121024-015	BH7	Soil	4	6	12/10/2024	15:10						X	X	X					
	SO-12656942-KP-121024-016	BH7	Soil	4	6	12/10/2024	15:10	X												
	SO-12656942-KP-121024-032	BH7	Soil	4	6	12/10/2024	15:10						X	X	X					FD(SO-12656942-KP-121024-015)
	SO-12656942-KP-121024-021	BH8	Soil	1.5	2.5	12/10/2024	15:45									X				
	SO-12656942-KP-121024-007	BH8	Soil	4	6	12/10/2024	15:45									X	X			
	SO-12656942-KP-121024-008	BH8	Soil	4	6	12/10/2024	15:45		X		X								X	MS
	SO-12656942-KP-121024-022	BH8	Soil	0	1.5	12/10/2024	15:45		X		X						X		X	

Table 1

Sample Collection and Analysis Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Sample Delivery Group	Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Parameters												Comments
								PFAS	Metals	Metals, STLC	Mercury	Mercury, STLC	Pesticides	PCBs	Herbicides	VOCs	SVOCs	1,4-Dioxane	Cyanide	
4802262091	SO-12656942-KP-121024-011	BH9	Soil	3	4	12/11/2024	10:40									X	X			
	SO-12656942-KP-121024-012	BH9	Soil	3	4	12/11/2024	10:40		X		X								X	
	SO-12656942-KP-121024-040	BH9	Soil	0	3	12/11/2024	10:40							X						MS/MSD
	SO-12656942-KP-121024-024	BH9	Soil	0	3	12/11/2024	10:40	X												DUP
	GW-12656942-KP-121024-002	TPMW-1	Groundwater	--	--	12/11/2024	8:15									X				
	GW-12656942-KP-121024-001	TPMW-2	Groundwater	--	--	12/11/2024	7:30		X	X	X	X				X	X		X	MS/MSD
	GW-12656942-KP-121024-011	TPMW-2	Groundwater	--	--	12/11/2024	9:45											X		
	GW-12656942-KP-121024-003	TPMW-4	Groundwater	--	--	12/11/2024	11:45									X				
	Trip blank	--	Water	--	--	12/11/2024	--									X				Trip Blank

Notes:

ft. bgs.	- Feet below ground surface
DUP	- Laboratory Duplicate
FD	- Field Duplicate Sample of sample in parenthesis
MS	- Matrix Spike
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
PFAS	- Per/Polyfluorinated Alkyl Substances
STLC	- Soluble Threshold Limit Concentration
PCBs	- Polychlorinated Biphenyls
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
--	- Not applicable

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	2.0 U	4.0 U	--	10 U
1,1,2,2-Tetrachloroethane	µg/L	2.0 U	4.0 U	--	10 U
1,1,2-Trichloroethane	µg/L	2.0 U	4.0 U	--	10 U
1,1-Dichloroethane	µg/L	2.0 U	4.0 U	--	10 U
1,1-Dichloroethene	µg/L	2.0 U	4.0 U	--	10 U
1,2,4-Trichlorobenzene	µg/L	2.0 U	4.0 U	--	10 U
1,2,4-Trimethylbenzene	µg/L	2.0 U	4.0 U	--	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	4.0 U	--	10 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	4.0 U	--	10 U
1,2-Dichlorobenzene	µg/L	2.0 U	4.0 U	--	10 U
1,2-Dichloroethane	µg/L	2.0 U	4.0 U	--	10 U
1,2-Dichloropropane	µg/L	2.0 U	4.0 U	--	10 U
1,3,5-Trimethylbenzene	µg/L	2.0 U	4.0 U	--	10 U
1,3-Dichlorobenzene	µg/L	2.0 U	4.0 U	--	10 U
1,4-Dichlorobenzene	µg/L	2.0 U	4.0 U	--	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	3.1 J	40 U	--	100 U
2-Hexanone	µg/L	10 U	20 U	--	50 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	2.0 U	4.0 U	--	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	20 U	--	50 U
Acetone	µg/L	15 J	17 J	--	100 U
Benzene	µg/L	2.0 U	4.0 U	--	10 U
Bromodichloromethane	µg/L	2.0 U	4.0 U	--	10 U
Bromoform	µg/L	2.0 U	4.0 U	--	10 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	4.0 U	--	10 U
Carbon disulfide	µg/L	2.0 U	4.0 U	--	10 U
Carbon tetrachloride	µg/L	2.0 U	4.0 U	--	10 U
Chlorobenzene	µg/L	2.0 U	4.0 U	--	10 U
Chloroethane	µg/L	2.0 U	4.0 U	--	10 U
Chloroform (Trichloromethane)	µg/L	2.0 U	4.0 U	--	10 U
Chloromethane (Methyl chloride)	µg/L	2.0 U	4.0 U	--	10 U
cis-1,2-Dichloroethene	µg/L	2.0 U	4.0 U	--	10 U

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Volatile Organic Compounds					
cis-1,3-Dichloropropene	µg/L	2.0 U	4.0 U	--	10 U
Cyclohexane	µg/L	2.0 U	4.0 U	--	10 U
Cymene (p-Isopropyltoluene)	µg/L	2.0 U	4.0 U	--	10 U
Dibromochloromethane	µg/L	2.0 U	4.0 U	--	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U	4.0 U	--	10 U
Ethylbenzene	µg/L	2.0 U	4.0 U	--	10 U
Isopropyl benzene	µg/L	2.0 U	4.0 U	--	10 U
Methyl acetate	µg/L	5.0 U	10 U	--	25 U
Methyl cyclohexane	µg/L	2.0 U	4.0 U	--	10 U
Methyl tert butyl ether (MTBE)	µg/L	2.0 U	4.0 U	--	10 U
Methylene chloride	µg/L	2.0 U	4.0 U	--	10 U
N-Butylbenzene	µg/L	2.0 U	4.0 U	--	10 U
N-Propylbenzene	µg/L	2.0 U	4.0 U	--	10 U
Naphthalene	µg/L	2.0 U	4.0 U	--	10 U
Styrene	µg/L	2.0 U	4.0 U	--	10 U
tert-Butylbenzene	µg/L	2.0 U	4.0 U	--	10 U
Tetrachloroethene	µg/L	2.0 U	4.0 U	--	10 U
Toluene	µg/L	2.0 U	4.0 U	--	10 U
trans-1,2-Dichloroethene	µg/L	2.0 U	4.0 U	--	10 U
trans-1,3-Dichloropropene	µg/L	2.0 U	4.0 U	--	10 U
Trichloroethene	µg/L	2.0 U	4.0 U	--	10 U
Trichlorofluoromethane (CFC-11)	µg/L	2.0 U	4.0 U	--	10 U
Trifluorotrichloroethane (CFC-113)	µg/L	2.0 U	4.0 U	--	10 U
Vinyl chloride	µg/L	2.0 U	4.0 U	--	10 U
Xylenes (total)	µg/L	4.0 U	8.0 U	--	20 U

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	5.0 U	--	--
2,4,5-Trichlorophenol	µg/L	--	5.0 U	--	--
2,4,6-Trichlorophenol	µg/L	--	5.0 U	--	--
2,4-Dichlorophenol	µg/L	--	5.0 U	--	--
2,4-Dimethylphenol	µg/L	--	5.0 U	--	--
2,4-Dinitrophenol	µg/L	--	10 U	--	--
2,4-Dinitrotoluene	µg/L	--	5.0 U	--	--
2,6-Dinitrotoluene	µg/L	--	5.0 U	--	--
2-Chloronaphthalene	µg/L	--	5.0 U	--	--
2-Chlorophenol	µg/L	--	5.0 U	--	--
2-Methylnaphthalene	µg/L	--	5.0 U	--	--
2-Methylphenol	µg/L	--	5.0 U	--	--
2-Nitroaniline	µg/L	--	10 U	--	--
2-Nitrophenol	µg/L	--	5.0 U	--	--
3,3'-Dichlorobenzidine	µg/L	--	5.0 U	--	--
3-Nitroaniline	µg/L	--	10 U	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	10 U	--	--
4-Bromophenyl phenyl ether	µg/L	--	5.0 U	--	--
4-Chloro-3-methylphenol	µg/L	--	5.0 U	--	--
4-Chloroaniline	µg/L	--	5.0 U	--	--
4-Chlorophenyl phenyl ether	µg/L	--	5.0 U	--	--
4-Methylphenol	µg/L	--	10 U	--	--
4-Nitroaniline	µg/L	--	10 U	--	--
4-Nitrophenol	µg/L	--	10 U	--	--
Acenaphthene	µg/L	--	5.0 U	--	--
Acenaphthylene	µg/L	--	5.0 U	--	--
Acetophenone	µg/L	--	0.61 J+	--	--
Anthracene	µg/L	--	5.0 U	--	--
Atrazine	µg/L	--	5.0 U	--	--
Benzaldehyde	µg/L	--	5.0 U	--	--
Benzo(a)anthracene	µg/L	--	5.0 U	--	--
Benzo(a)pyrene	µg/L	--	5.0 U	--	--
Benzo(b)fluoranthene	µg/L	--	5.0 U	--	--

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Benzo(g,h,i)perylene	µg/L	--	5.0 U	--	--
Benzo(k)fluoranthene	µg/L	--	5.0 U	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	5.0 U	--	--
bis(2-Chloroethoxy)methane	µg/L	--	5.0 U	--	--
bis(2-Chloroethyl)ether	µg/L	--	5.0 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	5.0 U	--	--
Butyl benzylphthalate (BBP)	µg/L	--	5.0 U	--	--
Caprolactam	µg/L	--	2.8 J+	--	--
Carbazole	µg/L	--	5.0 U	--	--
Chrysene	µg/L	--	5.0 U	--	--
Di-n-butylphthalate (DBP)	µg/L	--	0.69 J+	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	5.0 U	--	--
Dibenz(a,h)anthracene	µg/L	--	5.0 U	--	--
Dibenzofuran	µg/L	--	10 U	--	--
Diethyl phthalate	µg/L	--	0.60 J+	--	--
Dimethyl phthalate	µg/L	--	4.1 J+	--	--
Fluoranthene	µg/L	--	5.0 U	--	--
Fluorene	µg/L	--	5.0 U	--	--
Hexachlorobenzene	µg/L	--	5.0 U	--	--
Hexachlorobutadiene	µg/L	--	5.0 U	--	--
Hexachlorocyclopentadiene	µg/L	--	5.0 U	--	--
Hexachloroethane	µg/L	--	5.0 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	5.0 U	--	--
Isophorone	µg/L	--	5.0 U	--	--
N-Nitrosodi-n-propylamine	µg/L	--	5.0 U	--	--
N-Nitrosodiphenylamine	µg/L	--	5.0 U	--	--
Naphthalene	µg/L	--	5.0 U	--	--
Nitrobenzene	µg/L	--	5.0 U	--	--
Pentachlorophenol	µg/L	--	10 U	--	--
Phenanthrene	µg/L	--	5.0 U	--	--
Phenol	µg/L	--	1.2 J+	--	--
Pyrene	µg/L	--	5.0 U	--	--

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Semivolatile Organic Compounds, SIM					
1,4-Dioxane	µg/L	--	--	3.4	--
Metals					
Aluminum	mg/L	--	0.51	--	--
Antimony	mg/L	--	0.020 U	--	--
Arsenic	mg/L	--	0.015 U	--	--
Barium	mg/L	--	0.074	--	--
Beryllium	mg/L	--	0.0020 U	--	--
Cadmium	mg/L	--	0.0020 U	--	--
Calcium	mg/L	--	150	--	--
Chromium	mg/L	--	0.0011 J	--	--
Cobalt	mg/L	--	0.0029 J	--	--
Copper	mg/L	--	0.010 U	--	--
Iron	mg/L	--	0.35	--	--
Lead	mg/L	--	0.010 U	--	--
Magnesium	mg/L	--	51	--	--
Manganese	mg/L	--	0.26	--	--
Mercury	mg/L	--	0.00020 U	--	--
Nickel	mg/L	--	0.0031 J	--	--
Potassium	mg/L	--	7.1	--	--
Selenium	mg/L	--	0.025 U	--	--
Silver	mg/L	--	0.0060 U	--	--
Sodium	mg/L	--	180	--	--
Thallium	mg/L	--	0.020 U	--	--
Vanadium	mg/L	--	0.0050 U	--	--
Zinc	mg/L	--	0.010 U	--	--

Table 2A

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**TPMW-1**	**TPMW-2**	**TPMW-2**	**TPMW-4**
	Sample Name:	**GW-12656942-KP-121024-002**	**GW-12656942-KP-121024-001**	**GW-12656942-KP-121024-011**	**GW-12656942-KP-121024-003**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
Parameters	**Unit**				
Metals, STLC					
Aluminum (dissolved)	mg/L	--	0.20 U	--	--
Antimony (dissolved)	mg/L	--	0.020 U	--	--
Arsenic (dissolved)	mg/L	--	0.015 U	--	--
Barium (dissolved)	mg/L	--	0.066	--	--
Beryllium (dissolved)	mg/L	--	0.0020 U	--	--
Cadmium (dissolved)	mg/L	--	0.0020 U	--	--
Calcium (dissolved)	mg/L	--	170	--	--
Chromium (dissolved)	mg/L	--	0.0040 U	--	--
Cobalt (dissolved)	mg/L	--	0.0027 J	--	--
Copper (dissolved)	mg/L	--	0.010 U	--	--
Iron (dissolved)	mg/L	--	0.050 U	--	--
Lead (dissolved)	mg/L	--	0.010 U	--	--
Magnesium (dissolved)	mg/L	--	58	--	--
Manganese (dissolved)	mg/L	--	0.29	--	--
Mercury (dissolved)	mg/L	--	0.00020 U	--	--
Nickel (dissolved)	mg/L	--	0.0037 J	--	--
Potassium (dissolved)	mg/L	--	7.0	--	--
Selenium (dissolved)	mg/L	--	0.025 U	--	--
Silver (dissolved)	mg/L	--	0.0060 U	--	--
Sodium (dissolved)	mg/L	--	180	--	--
Thallium (dissolved)	mg/L	--	0.020 U	--	--
Vanadium (dissolved)	mg/L	--	0.0050 U	--	--
Zinc (dissolved)	mg/L	--	0.010 U	--	--
General Chemistry					
Cyanide (total)	mg/L	--	0.010 U	--	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
J+ - Estimated concentration; result may be biased high
-- - Not analyzed
SIM - Selected Ion Monitoring
STLC - Soluble Threshold Limit Concentration

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH1**	**BH10**	**BH10**	**BH10**	**BH11**	**BH11**
	Sample Name:	**SO-12656942-KP-121024-004**	**SO-12656942-KP-121024-010**	**SO-12656942-KP-121024-025**	**SO-12656942-KP-121024-023**	**SO-12656942-KP-121024-009**	**SO-12656942-KP-121024-026**
	Sample Date:	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**10-12 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**0-4 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	--	--	3.3 U	--	0.80 J	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	3.3 U	--	4.0 U	--
1,1,2-Trichloroethane	µg/kg	--	--	3.3 U	--	4.0 U	--
1,1-Dichloroethane	µg/kg	--	--	3.3 U	--	4.0 U	--
1,1-Dichloroethene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2,4-Trichlorobenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2,4-Trimethylbenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2-Dichlorobenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2-Dichloroethane	µg/kg	--	--	3.3 U	--	4.0 U	--
1,2-Dichloropropane	µg/kg	--	--	3.3 U	--	4.0 U	--
1,3,5-Trimethylbenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,3-Dichlorobenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
1,4-Dichlorobenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	16 U	--	20 U	--
2-Hexanone	µg/kg	--	--	16 U	--	20 U	--
2-Phenylbutane (sec-Butylbenzene)	µg/kg	--	--	3.3 U	--	4.0 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	16 U	--	20 U	--
Acetone	µg/kg	--	--	16 U	--	20 U	--
Benzene	µg/kg	--	--	3.3 U	--	4.0 U	--
Bromodichloromethane	µg/kg	--	--	3.3 U	--	4.0 U	--
Bromoform	µg/kg	--	--	3.3 U	--	4.0 U	--
Bromomethane (Methyl bromide)	µg/kg	--	--	3.3 U	--	4.0 U	--
Carbon disulfide	µg/kg	--	--	3.3 U	--	4.0 U	--
Carbon tetrachloride	µg/kg	--	--	3.3 U	--	4.0 U	--
Chlorobenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
Chloroethane	µg/kg	--	--	3.3 U	--	4.0 U	--
Chloroform (Trichloromethane)	µg/kg	--	--	3.3 U	--	4.0 U	--
Chloromethane (Methyl chloride)	µg/kg	--	--	3.3 U	--	4.0 U	--
cis-1,2-Dichloroethene	µg/kg	--	--	3.3 U	--	4.0 U	--
cis-1,3-Dichloropropene	µg/kg	--	--	3.3 U	--	4.0 U	--
Cyclohexane	µg/kg	--	--	3.3 U	--	4.0 U	--
Cymene (p-Isopropyltoluene)	µg/kg	--	--	3.3 U	--	4.0 U	--
Dibromochloromethane	µg/kg	--	--	3.3 U	--	4.0 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	3.3 U	--	4.0 U	--
Ethylbenzene	µg/kg	--	--	3.3 U	--	0.43 J	--
Isopropyl benzene	µg/kg	--	--	3.3 U	--	4.0 U	--
Methyl acetate	µg/kg	--	--	16 U	--	20 U	--
Methyl cyclohexane	µg/kg	--	--	3.3 U	--	4.0 U	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	3.3 U	--	4.0 U	--
Methylene chloride	µg/kg	--	--	3.3 U	--	4.0 U	--
N-Butylbenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
N-Propylbenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
Naphthalene	µg/kg	--	--	3.3 U	--	4.0 U	--
Styrene	µg/kg	--	--	3.3 U	--	4.0 U	--
tert-Butylbenzene	µg/kg	--	--	3.3 U	--	4.0 U	--
Tetrachloroethene	µg/kg	--	--	3.3 U	--	4.0 U	--
Toluene	µg/kg	--	--	3.3 U	--	4.0 U	--
trans-1,2-Dichloroethene	µg/kg	--	--	3.3 U	--	4.0 U	--
trans-1,3-Dichloropropene	µg/kg	--	--	3.3 U	--	4.0 U	--
Trichloroethene	µg/kg	--	--	3.3 U	--	4.0 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	3.3 U	--	4.0 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	3.3 U	--	4.0 U	--
Vinyl chloride	µg/kg	--	--	3.3 U	--	4.0 U	--
Xylenes (total)	µg/kg	--	--	6.6 U	--	1.6 J	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH1**	**BH10**	**BH10**	**BH10**	**BH11**	**BH11**
	Sample Name:	**SO-12656942-KP-121024-004**	**SO-12656942-KP-121024-010**	**SO-12656942-KP-121024-025**	**SO-12656942-KP-121024-023**	**SO-12656942-KP-121024-009**	**SO-12656942-KP-121024-026**
	Sample Date:	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**10-12 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**0-4 ft BGS**
Parameters	**Unit**						
Semivolatile Organic Compounds							
1,4-Dioxane	µg/kg	--	--	--	--	130 U	110 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--	--	210 U	190 U
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	210 U	190 U
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	210 U	190 U
2,4-Dichlorophenol	µg/kg	--	--	--	--	210 U	190 U
2,4-Dimethylphenol	µg/kg	--	--	--	--	210 U	190 U
2,4-Dinitrophenol	µg/kg	--	--	--	--	2100 U	1800 U
2,4-Dinitrotoluene	µg/kg	--	--	--	--	210 U	190 U
2,6-Dinitrotoluene	µg/kg	--	--	--	--	210 U	190 U
2-Chloronaphthalene	µg/kg	--	--	--	--	210 U	190 U
2-Chlorophenol	µg/kg	--	--	--	--	410 U	370 U
2-Methylnaphthalene	µg/kg	--	--	--	--	210 U	75 J
2-Methylphenol	µg/kg	--	--	--	--	210 U	190 U
2-Nitroaniline	µg/kg	--	--	--	--	410 U	370 U
2-Nitrophenol	µg/kg	--	--	--	--	210 U	190 U
3,3'-Dichlorobenzidine	µg/kg	--	--	--	--	410 U	370 U
3-Nitroaniline	µg/kg	--	--	--	--	410 U	370 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	--	410 U	370 U
4-Bromophenyl phenyl ether	µg/kg	--	--	--	--	210 U	190 U
4-Chloro-3-methylphenol	µg/kg	--	--	--	--	210 U	190 U
4-Chloroaniline	µg/kg	--	--	--	--	210 U	190 U
4-Chlorophenyl phenyl ether	µg/kg	--	--	--	--	210 U	190 U
4-Methylphenol	µg/kg	--	--	--	--	410 U	370 U
4-Nitroaniline	µg/kg	--	--	--	--	410 U	370 U
4-Nitrophenol	µg/kg	--	--	--	--	410 U	370 U
Acenaphthene	µg/kg	--	--	--	--	210 U	190 U
Acenaphthylene	µg/kg	--	--	--	--	210 U	190 U
Acetophenone	µg/kg	--	--	--	--	210 U	190 U
Anthracene	µg/kg	--	--	--	--	210 U	190 U
Atrazine	µg/kg	--	--	--	--	210 U	190 U
Benzaldehyde	µg/kg	--	--	--	--	210 U	190 U
Benzo(a)anthracene	µg/kg	--	--	--	--	210 U	240
Benzo(a)pyrene	µg/kg	--	--	--	--	210 U	270
Benzo(b)fluoranthene	µg/kg	--	--	--	--	210 U	340
Benzo(g,h,i)perylene	µg/kg	--	--	--	--	210 U	200
Benzo(k)fluoranthene	µg/kg	--	--	--	--	210 U	150 J
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--	--	210 U	190 U
bis(2-Chloroethoxy)methane	µg/kg	--	--	--	--	210 U	190 U
bis(2-Chloroethyl)ether	µg/kg	--	--	--	--	210 U	190 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--	--	210 U	190 U
Butyl benzylphthalate (BBP)	µg/kg	--	--	--	--	210 U	190 U
Caprolactam	µg/kg	--	--	--	--	210 U	190 U
Carbazole	µg/kg	--	--	--	--	210 U	190 U
Chrysene	µg/kg	--	--	--	--	210 U	250
Di-n-butylphthalate (DBP)	µg/kg	--	--	--	--	210 U	190 U
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--	--	210 U	190 U
Dibenz(a,h)anthracene	µg/kg	--	--	--	--	210 U	64 J
Dibenzofuran	µg/kg	--	--	--	--	210 U	30 J
Diethyl phthalate	µg/kg	--	--	--	--	210 U	190 U
Dimethyl phthalate	µg/kg	--	--	--	--	210 U	190 U
Fluoranthene	µg/kg	--	--	--	--	210 U	400
Fluorene	µg/kg	--	--	--	--	210 U	190 U
Hexachlorobenzene	µg/kg	--	--	--	--	210 U	190 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH1**	**BH10**	**BH10**	**BH10**	**BH11**	**BH11**
	Sample Name:	**SO-12656942-KP-121024-004**	**SO-12656942-KP-121024-010**	**SO-12656942-KP-121024-025**	**SO-12656942-KP-121024-023**	**SO-12656942-KP-121024-009**	**SO-12656942-KP-121024-026**
	Sample Date:	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**10-12 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**0-4 ft BGS**
Parameters	**Unit**						
Semivolatile Organic Compounds							
Hexachlorobutadiene	µg/kg	--	--	--	--	210 U	190 U
Hexachlorocyclopentadiene	µg/kg	--	--	--	--	210 U	190 U
Hexachloroethane	µg/kg	--	--	--	--	210 U	190 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--	--	210 U	170 J
Isophorone	µg/kg	--	--	--	--	210 U	190 U
N-Nitrosodi-n-propylamine	µg/kg	--	--	--	--	210 U	190 U
N-Nitrosodiphenylamine	µg/kg	--	--	--	--	210 U	190 U
Naphthalene	µg/kg	--	--	--	--	210 U	33 J
Nitrobenzene	µg/kg	--	--	--	--	210 U	190 U
Pentachlorophenol	µg/kg	--	--	--	--	410 U	370 U
Phenanthrene	µg/kg	--	--	--	--	210 U	240
Phenol	µg/kg	--	--	--	--	210 U	190 U
Pyrene	µg/kg	--	--	--	--	210 U	360
Per/Polyfluoroalkyl Substances							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	--	--	--	--	--	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	--	--	--	--	--	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	--	--	--	--	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	--	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	--	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	--	--	--	--	--	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	--	--	--	--	--	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	--	--	--	--	--	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	--	--	--	--	--	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	--	--	--	--	--	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	--	--	--	--	--	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	--	--	--	--	--	--
Perfluorobutanoic acid (PFBA)	µg/kg	--	--	--	--	--	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	--	--	--	--	--	--
Perfluorodecanoic acid (PFDA)	µg/kg	--	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	--	--	--	--	--	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	--	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	--	--	--	--	--	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	--	--	--	--	--	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	--	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	µg/kg	--	--	--	--	--	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	--	--	--	--	--	--
Perfluorononanoic acid (PFNA)	µg/kg	--	--	--	--	--	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	--	--	--	--	--	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	--	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	µg/kg	--	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	--	--	--	--	--	--
Perfluoropentanoic acid (PFPeA)	µg/kg	--	--	--	--	--	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	--	--	--	--	--	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	--	--	--	--	--	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	--	--	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH1**	**BH10**	**BH10**	**BH10**	**BH11**	**BH11**
	Sample Name:	**SO-12656942-KP-121024-004**	**SO-12656942-KP-121024-010**	**SO-12656942-KP-121024-025**	**SO-12656942-KP-121024-023**	**SO-12656942-KP-121024-009**	**SO-12656942-KP-121024-026**
	Sample Date:	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**10-12 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**0-4 ft BGS**
Parameters	**Unit**						
Herbicides							
2,4,5-TP (Silvex)	µg/kg	--	--	--	19 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--	19 U	--	--
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	--	--	--	--	--	--
Pesticides							
4,4'-DDD	µg/kg	--	--	--	1.9 U	--	--
4,4'-DDE	µg/kg	--	--	--	2.3 J	--	--
4,4'-DDT	µg/kg	--	--	--	1.9 U	--	--
Aldrin	µg/kg	--	--	--	1.9 U	--	--
alpha-BHC	µg/kg	--	--	--	1.9 U	--	--
alpha-Chlordane	µg/kg	--	--	--	1.9 U	--	--
beta-BHC	µg/kg	--	--	--	1.9 U	--	--
delta-BHC	µg/kg	--	--	--	1.9 U	--	--
Dieldrin	µg/kg	--	--	--	44 J	--	--
Endosulfan I	µg/kg	--	--	--	1.9 U	--	--
Endosulfan II	µg/kg	--	--	--	1.9 U	--	--
Endosulfan sulfate	µg/kg	--	--	--	1.9 U	--	--
Endrin	µg/kg	--	--	--	1.2 J	--	--
Endrin aldehyde	µg/kg	--	--	--	1.9 U	--	--
Endrin ketone	µg/kg	--	--	--	1.9 U	--	--
gamma-BHC (lindane)	µg/kg	--	--	--	1.9 U	--	--
gamma-Chlordane	µg/kg	--	--	--	1.9 U	--	--
Heptachlor	µg/kg	--	--	--	1.9 U	--	--
Heptachlor epoxide	µg/kg	--	--	--	1.9 U	--	--
Methoxychlor	µg/kg	--	--	--	1.9 U	--	--
Toxaphene	µg/kg	--	--	--	19 U	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH1**	**BH10**	**BH10**	**BH10**	**BH11**	**BH11**
	Sample Name:	**SO-12656942-KP-121024-004**	**SO-12656942-KP-121024-010**	**SO-12656942-KP-121024-025**	**SO-12656942-KP-121024-023**	**SO-12656942-KP-121024-009**	**SO-12656942-KP-121024-026**
	Sample Date:	**12/10/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**10-12 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**	**0-4 ft BGS**
Parameters	**Unit**						
Metals							
Aluminum	mg/kg	17000	15000	--	--	--	6900
Antimony	mg/kg	19 U	17 UJ	--	--	--	18 U
Arsenic	mg/kg	9.8	6.0	--	--	--	32
Barium	mg/kg	160	97	--	--	--	140
Beryllium	mg/kg	0.62	0.73	--	--	--	0.89
Cadmium	mg/kg	0.23 J	0.62	--	--	--	0.17 J
Calcium	mg/kg	58000	45000	--	--	--	33000
Chromium	mg/kg	19	18	--	--	--	10 U
Cobalt	mg/kg	8.0	8.6	--	--	--	6.4
Copper	mg/kg	43	34	--	--	--	59
Iron	mg/kg	18000	19000 J-	--	--	--	22000
Lead	mg/kg	460	73 J+	--	--	--	55
Magnesium	mg/kg	32000	17000	--	--	--	5200
Manganese	mg/kg	550	440 J-	--	--	--	230
Mercury	mg/kg	0.64	0.082 J+	--	--	--	0.063
Nickel	mg/kg	16	20	--	--	--	21
Potassium	mg/kg	4200	4000	--	--	--	850
Selenium	mg/kg	5.1 U	4.6 U	--	--	--	4.8 U
Silver	mg/kg	0.77 U	0.33 J	--	--	--	0.72 U
Sodium	mg/kg	200	1600	--	--	--	370
Thallium	mg/kg	7.7 U	7.0 U	--	--	--	7.2 U
Vanadium	mg/kg	30	28	--	--	--	15
Zinc	mg/kg	100	150 J+	--	--	--	48
General Chemistry							
Cyanide (total)	mg/kg	1.3 U	R	--	--	--	1.1 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH11**	**BH11**	**BH2**	**BH3**	**BH3**	**BH3**
	Sample Name:	**SO-12656942-KP-121024-027**	**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-003**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-002**	**SO-12656942-KP-121024-013**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**0-4 ft BGS**	**0-4 ft BGS**	**4-8 ft BGS**	**1-2 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	--	--	3.3 U	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	3.3 U	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	3.3 U	--	--	--
1,1-Dichloroethane	µg/kg	--	--	3.3 U	--	--	--
1,1-Dichloroethene	µg/kg	--	--	3.3 U	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	3.3 U	--	--	--
1,2,4-Trimethylbenzene	µg/kg	--	--	3.3 U	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	3.3 U	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	3.3 U	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	3.3 U	--	--	--
1,2-Dichloroethane	µg/kg	--	--	3.3 U	--	--	--
1,2-Dichloropropane	µg/kg	--	--	3.3 U	--	--	--
1,3,5-Trimethylbenzene	µg/kg	--	--	3.3 U	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	3.3 U	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	3.3 U	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	16 U	--	--	--
2-Hexanone	µg/kg	--	--	16 U	--	--	--
2-Phenylbutane (sec-Butylbenzene)	µg/kg	--	--	3.3 U	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	16 U	--	--	--
Acetone	µg/kg	--	--	12 J	--	--	--
Benzene	µg/kg	--	--	0.18 J	--	--	--
Bromodichloromethane	µg/kg	--	--	3.3 U	--	--	--
Bromoform	µg/kg	--	--	3.3 U	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	3.3 U	--	--	--
Carbon disulfide	µg/kg	--	--	3.3 U	--	--	--
Carbon tetrachloride	µg/kg	--	--	3.3 U	--	--	--
Chlorobenzene	µg/kg	--	--	3.3 U	--	--	--
Chloroethane	µg/kg	--	--	3.3 U	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	3.3 U	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	3.3 U	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	3.3 U	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	3.3 U	--	--	--
Cyclohexane	µg/kg	--	--	3.3 U	--	--	--
Cymene (p-Isopropyltoluene)	µg/kg	--	--	3.3 U	--	--	--
Dibromochloromethane	µg/kg	--	--	3.3 U	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	3.3 U	--	--	--
Ethylbenzene	µg/kg	--	--	3.3 U	--	--	--
Isopropyl benzene	µg/kg	--	--	3.3 U	--	--	--
Methyl acetate	µg/kg	--	--	16 U	--	--	--
Methyl cyclohexane	µg/kg	--	--	0.69 J	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	3.3 U	--	--	--
Methylene chloride	µg/kg	--	--	2.4 J	--	--	--
N-Butylbenzene	µg/kg	--	--	3.3 U	--	--	--
N-Propylbenzene	µg/kg	--	--	3.3 U	--	--	--
Naphthalene	µg/kg	--	--	3.3 U	--	--	--
Styrene	µg/kg	--	--	3.3 U	--	--	--
tert-Butylbenzene	µg/kg	--	--	3.3 U	--	--	--
Tetrachloroethene	µg/kg	--	--	0.91 J	--	--	--
Toluene	µg/kg	--	--	0.80 J	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	3.3 U	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	3.3 U	--	--	--
Trichloroethene	µg/kg	--	--	3.3 U	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	3.3 U	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	3.3 U	--	--	--
Vinyl chloride	µg/kg	--	--	3.3 U	--	--	--
Xylenes (total)	µg/kg	--	--	6.5 U	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH11**	**BH11**	**BH2**	**BH3**	**BH3**	**BH3**
	Sample Name:	**SO-12656942-KP-121024-027**	**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-003**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-002**	**SO-12656942-KP-121024-013**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**0-4 ft BGS**	**0-4 ft BGS**	**4-8 ft BGS**	**1-2 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**
Parameters	**Unit**						
Semivolatile Organic Compounds							
1,4-Dioxane	µg/kg	--	--	120 U	--	--	--
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	200 U	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	200 U	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	200 U	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	200 U	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	200 U	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	1900 U	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	200 U	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	200 U	--	--	--
2-Chloronaphthalene	µg/kg	--	--	200 U	--	--	--
2-Chlorophenol	µg/kg	--	--	380 U	--	--	--
2-Methylnaphthalene	µg/kg	--	--	51 J	--	--	--
2-Methylphenol	µg/kg	--	--	200 U	--	--	--
2-Nitroaniline	µg/kg	--	--	380 U	--	--	--
2-Nitrophenol	µg/kg	--	--	200 U	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	380 U	--	--	--
3-Nitroaniline	µg/kg	--	--	380 U	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	380 U	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	200 U	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	200 U	--	--	--
4-Chloroaniline	µg/kg	--	--	200 U	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	200 U	--	--	--
4-Methylphenol	µg/kg	--	--	380 U	--	--	--
4-Nitroaniline	µg/kg	--	--	380 U	--	--	--
4-Nitrophenol	µg/kg	--	--	380 U	--	--	--
Acenaphthene	µg/kg	--	--	66 J	--	--	--
Acenaphthylene	µg/kg	--	--	310	--	--	--
Acetophenone	µg/kg	--	--	200 U	--	--	--
Anthracene	µg/kg	--	--	580	--	--	--
Atrazine	µg/kg	--	--	200 U	--	--	--
Benzaldehyde	µg/kg	--	--	200 U	--	--	--
Benzo(a)anthracene	µg/kg	--	--	2300	--	--	--
Benzo(a)pyrene	µg/kg	--	--	1800	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	2700	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	1300	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	1000	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	200 U	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	200 U	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	200 U	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	130 J	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	52 J	--	--	--
Caprolactam	µg/kg	--	--	200 U	--	--	--
Carbazole	µg/kg	--	--	490	--	--	--
Chrysene	µg/kg	--	--	2500	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	200 U	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	200 U	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	460	--	--	--
Dibenzofuran	µg/kg	--	--	77 J	--	--	--
Diethyl phthalate	µg/kg	--	--	200 U	--	--	--
Dimethyl phthalate	µg/kg	--	--	200 U	--	--	--
Fluoranthene	µg/kg	--	--	4800	--	--	--
Fluorene	µg/kg	--	--	140 J	--	--	--
Hexachlorobenzene	µg/kg	--	--	200 U	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH11**	**BH11**	**BH2**	**BH3**	**BH3**	**BH3**
	Sample Name:	**SO-12656942-KP-121024-027**	**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-003**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-002**	**SO-12656942-KP-121024-013**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**0-4 ft BGS**	**0-4 ft BGS**	**4-8 ft BGS**	**1-2 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**
Parameters	**Unit**						
Semivolatile Organic Compounds							
Hexachlorobutadiene	µg/kg	--	--	200 U	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	200 U	--	--	--
Hexachloroethane	µg/kg	--	--	200 U	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	1200	--	--	--
Isophorone	µg/kg	--	--	200 U	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	200 U	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	200 U	--	--	--
Naphthalene	µg/kg	--	--	37 J	--	--	--
Nitrobenzene	µg/kg	--	--	200 U	--	--	--
Pentachlorophenol	µg/kg	--	--	380 U	--	--	--
Phenanthrene	µg/kg	--	--	2400	--	--	--
Phenol	µg/kg	--	--	200 U	--	--	--
Pyrene	µg/kg	--	--	3300	--	--	--
Per/Polyfluoroalkyl Substances							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	--	0.81 U	--	0.82 U	--	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	--	0.81 U	--	0.82 U	--	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	--	5.1 U	--	5.1 U	--	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	--	1.0 U	--	1.0 U	--	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	--	5.1 U	--	5.1 U	--	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	--	0.81 U	--	0.82 U	--	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	--	0.81 U	--	0.82 U	--	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	--	0.81 U	--	0.82 U	--	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	--	0.81 U	--	0.82 U	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	--	0.81 U	--	0.82 U	--	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	--	0.20 U	--	0.21 U	--	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	--	0.20 UJ	--	0.21 U	--	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	--	2.0 U	--	2.1 U	--	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	--	0.20 U	--	0.21 U	--	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	--	2.0 U	--	2.1 U	--	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	--	0.20 U	--	0.21 U	--	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	--	0.41 U	--	0.41 U	--	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	--	0.41 U	--	0.41 U	--	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	--	0.41 U	--	0.41 U	--	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	--	0.41 U	--	0.41 U	--	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorobutanoic acid (PFBA)	µg/kg	--	0.81 U	--	0.82 U	--	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorodecanoic acid (PFDA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorohexanoic acid (PFHxA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorononanoic acid (PFNA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	--	0.091 J	--	0.21 U	--	--
Perfluorooctanoic acid (PFOA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluoropentanoic acid (PFPeA)	µg/kg	--	0.41 U	--	0.41 U	--	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	--	0.20 U	--	0.21 U	--	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	--	0.20 U	--	0.21 U	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH11**	**BH11**	**BH2**	**BH3**	**BH3**	**BH3**
	Sample Name:	**SO-12656942-KP-121024-027**	**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-003**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-002**	**SO-12656942-KP-121024-013**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**0-4 ft BGS**	**0-4 ft BGS**	**4-8 ft BGS**	**1-2 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**
Parameters	**Unit**						
Herbicides							
2,4,5-TP (Silvex)	µg/kg	19 U	--	--	--	--	21 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	19 U	--	--	--	--	21 U
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	0.23 U	--	--	--	--	0.22 U
Aroclor-1221 (PCB-1221)	mg/kg	0.23 U	--	--	--	--	0.22 U
Aroclor-1232 (PCB-1232)	mg/kg	0.23 U	--	--	--	--	0.22 U
Aroclor-1242 (PCB-1242)	mg/kg	0.23 U	--	--	--	--	0.22 U
Aroclor-1248 (PCB-1248)	mg/kg	0.23 U	--	--	--	--	0.22 U
Aroclor-1254 (PCB-1254)	mg/kg	0.45	--	--	--	--	0.22 U
Aroclor-1260 (PCB-1260)	mg/kg	0.23 U	--	--	--	--	0.22 U
Pesticides							
4,4'-DDD	µg/kg	2.0 U	--	--	--	--	2.1 U
4,4'-DDE	µg/kg	6.5	--	--	--	--	2.1 U
4,4'-DDT	µg/kg	2.0 U	--	--	--	--	2.1 U
Aldrin	µg/kg	2.0 U	--	--	--	--	2.1 U
alpha-BHC	µg/kg	2.0 U	--	--	--	--	2.1 U
alpha-Chlordane	µg/kg	2.0 U	--	--	--	--	2.1 U
beta-BHC	µg/kg	2.0 U	--	--	--	--	2.1 U
delta-BHC	µg/kg	2.0 U	--	--	--	--	2.1 U
Dieldrin	µg/kg	2.0 U	--	--	--	--	2.1 U
Endosulfan I	µg/kg	2.0 U	--	--	--	--	2.1 U
Endosulfan II	µg/kg	2.0 J	--	--	--	--	2.1 U
Endosulfan sulfate	µg/kg	2.0 U	--	--	--	--	2.1 U
Endrin	µg/kg	18	--	--	--	--	2.1 U
Endrin aldehyde	µg/kg	2.0 U	--	--	--	--	2.1 U
Endrin ketone	µg/kg	0.65 J	--	--	--	--	2.1 U
gamma-BHC (lindane)	µg/kg	2.0 U	--	--	--	--	2.1 U
gamma-Chlordane	µg/kg	2.0 U	--	--	--	--	2.1 U
Heptachlor	µg/kg	2.0 U	--	--	--	--	2.1 U
Heptachlor epoxide	µg/kg	2.0 U	--	--	--	--	2.1 U
Methoxychlor	µg/kg	4.3 J+	--	--	--	--	2.1 U
Toxaphene	µg/kg	20 U	--	--	--	--	21 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH11**	**BH11**	**BH2**	**BH3**	**BH3**	**BH3**
	Sample Name:	**SO-12656942-KP-121024-027**	**SO-12656942-KP-121024-028**	**SO-12656942-KP-121024-003**	**SO-12656942-KP-121024-020**	**SO-12656942-KP-121024-002**	**SO-12656942-KP-121024-013**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**0-4 ft BGS**	**0-4 ft BGS**	**4-8 ft BGS**	**1-2 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**
Parameters	**Unit**						
Metals							
Aluminum	mg/kg	--	--	--	--	19000	--
Antimony	mg/kg	--	--	--	--	19 U	--
Arsenic	mg/kg	--	--	--	--	5.2	--
Barium	mg/kg	--	--	--	--	170	--
Beryllium	mg/kg	--	--	--	--	0.77	--
Cadmium	mg/kg	--	--	--	--	0.19 J	--
Calcium	mg/kg	--	--	--	--	41000	--
Chromium	mg/kg	--	--	--	--	22	--
Cobalt	mg/kg	--	--	--	--	9.5	--
Copper	mg/kg	--	--	--	--	25	--
Iron	mg/kg	--	--	--	--	20000	--
Lead	mg/kg	--	--	--	--	350	--
Magnesium	mg/kg	--	--	--	--	14000	--
Manganese	mg/kg	--	--	--	--	470	--
Mercury	mg/kg	--	--	--	--	0.32	--
Nickel	mg/kg	--	--	--	--	20	--
Potassium	mg/kg	--	--	--	--	5200	--
Selenium	mg/kg	--	--	--	--	5.1 U	--
Silver	mg/kg	--	--	--	--	0.59 J	--
Sodium	mg/kg	--	--	--	--	290	--
Thallium	mg/kg	--	--	--	--	7.6 U	--
Vanadium	mg/kg	--	--	--	--	34	--
Zinc	mg/kg	--	--	--	--	110	--
General Chemistry							
Cyanide (total)	mg/kg	--	--	--	--	1.2 U	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH3**	**BH4**	**BH5**	**BH5**	**BH5**	**BH5**
	Sample Name:	**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**8-10 ft BGS**	**0-4 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**
					Duplicate		**Duplicate**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,1,2,2-Tetrachloroethane	µg/kg	3.3 UJ	--	--	--	3.3 U	3.1 U
1,1,2-Trichloroethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,1-Dichloroethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,1-Dichloroethene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2,4-Trichlorobenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2,4-Trimethylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2-Dichlorobenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2-Dichloroethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,2-Dichloropropane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,3,5-Trimethylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,3-Dichlorobenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
1,4-Dichlorobenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	17 UJ	--	--	--	16 U	15 U
2-Hexanone	µg/kg	17 U	--	--	--	16 U	15 U
2-Phenylbutane (sec-Butylbenzene)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	17 U	--	--	--	16 U	15 U
Acetone	µg/kg	17 U	--	--	--	2.9 J	4.5 J
Benzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Bromodichloromethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Bromoform	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Bromomethane (Methyl bromide)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Carbon disulfide	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Carbon tetrachloride	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Chlorobenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Chloroethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Chloroform (Trichloromethane)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Chloromethane (Methyl chloride)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
cis-1,2-Dichloroethene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
cis-1,3-Dichloropropene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Cyclohexane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Cymene (p-Isopropyltoluene)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Dibromochloromethane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Ethylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Isopropyl benzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Methyl acetate	µg/kg	17 U	--	--	--	16 U	15 U
Methyl cyclohexane	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Methyl tert butyl ether (MTBE)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Methylene chloride	µg/kg	2.0 J	--	--	--	3.3 U	1.6 J
N-Butylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
N-Propylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Naphthalene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Styrene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
tert-Butylbenzene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Tetrachloroethene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Toluene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
trans-1,2-Dichloroethene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
trans-1,3-Dichloropropene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Trichloroethene	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Trichlorofluoromethane (CFC-11)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Vinyl chloride	µg/kg	3.3 U	--	--	--	3.3 U	3.1 U
Xylenes (total)	µg/kg	6.7 U	--	--	--	6.6 U	6.2 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH3**	**BH4**	**BH5**	**BH5**	**BH5**	**BH5**
	Sample Name:	**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**8-10 ft BGS**	**0-4 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**
					Duplicate		**Duplicate**
Parameters	**Unit**						
Semivolatile Organic Compounds							
1,4-Dioxane	µg/kg	110 U	--	--	--	110 U	--
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	190 U	--	--	--	190 U	--
2,4,5-Trichlorophenol	µg/kg	190 U	--	--	--	190 U	--
2,4,6-Trichlorophenol	µg/kg	190 U	--	--	--	190 U	--
2,4-Dichlorophenol	µg/kg	190 U	--	--	--	190 U	--
2,4-Dimethylphenol	µg/kg	190 U	--	--	--	190 U	--
2,4-Dinitrophenol	µg/kg	1900 U	--	--	--	1900 U	--
2,4-Dinitrotoluene	µg/kg	190 U	--	--	--	190 U	--
2,6-Dinitrotoluene	µg/kg	190 U	--	--	--	190 U	--
2-Chloronaphthalene	µg/kg	190 U	--	--	--	190 U	--
2-Chlorophenol	µg/kg	370 U	--	--	--	380 U	--
2-Methylnaphthalene	µg/kg	190 U	--	--	--	190 U	--
2-Methylphenol	µg/kg	190 U	--	--	--	190 U	--
2-Nitroaniline	µg/kg	370 U	--	--	--	380 U	--
2-Nitrophenol	µg/kg	190 U	--	--	--	190 U	--
3,3'-Dichlorobenzidine	µg/kg	370 U	--	--	--	380 U	--
3-Nitroaniline	µg/kg	370 U	--	--	--	380 U	--
4,6-Dinitro-2-methylphenol	µg/kg	370 U	--	--	--	380 U	--
4-Bromophenyl phenyl ether	µg/kg	190 U	--	--	--	190 U	--
4-Chloro-3-methylphenol	µg/kg	190 U	--	--	--	190 U	--
4-Chloroaniline	µg/kg	190 U	--	--	--	190 U	--
4-Chlorophenyl phenyl ether	µg/kg	190 U	--	--	--	190 U	--
4-Methylphenol	µg/kg	370 U	--	--	--	380 U	--
4-Nitroaniline	µg/kg	370 U	--	--	--	380 U	--
4-Nitrophenol	µg/kg	370 U	--	--	--	380 U	--
Acenaphthene	µg/kg	190 U	--	--	--	190 U	--
Acenaphthylene	µg/kg	190 U	--	--	--	190 U	--
Acetophenone	µg/kg	190 U	--	--	--	190 U	--
Anthracene	µg/kg	190 U	--	--	--	190 U	--
Atrazine	µg/kg	190 U	--	--	--	190 U	--
Benzaldehyde	µg/kg	190 U	--	--	--	190 U	--
Benzo(a)anthracene	µg/kg	190 U	--	--	--	19 J	--
Benzo(a)pyrene	µg/kg	190 U	--	--	--	190 U	--
Benzo(b)fluoranthene	µg/kg	190 U	--	--	--	190 U	--
Benzo(g,h,i)perylene	µg/kg	190 U	--	--	--	190 U	--
Benzo(k)fluoranthene	µg/kg	190 U	--	--	--	190 U	--
Biphenyl (1,1-Biphenyl)	µg/kg	190 U	--	--	--	190 U	--
bis(2-Chloroethoxy)methane	µg/kg	190 U	--	--	--	190 U	--
bis(2-Chloroethyl)ether	µg/kg	190 U	--	--	--	190 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	190 U	--	--	--	190 U	--
Butyl benzylphthalate (BBP)	µg/kg	190 U	--	--	--	190 U	--
Caprolactam	µg/kg	190 U	--	--	--	190 U	--
Carbazole	µg/kg	190 U	--	--	--	190 U	--
Chrysene	µg/kg	190 U	--	--	--	190 U	--
Di-n-butylphthalate (DBP)	µg/kg	190 U	--	--	--	190 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	190 U	--	--	--	190 U	--
Dibenz(a,h)anthracene	µg/kg	190 U	--	--	--	190 U	--
Dibenzofuran	µg/kg	190 U	--	--	--	190 U	--
Diethyl phthalate	µg/kg	190 U	--	--	--	190 U	--
Dimethyl phthalate	µg/kg	190 U	--	--	--	190 U	--
Fluoranthene	µg/kg	190 U	--	--	--	44 J	--
Fluorene	µg/kg	190 U	--	--	--	190 U	--
Hexachlorobenzene	µg/kg	190 U	--	--	--	190 U	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH3**	**BH4**	**BH5**	**BH5**	**BH5**	**BH5**
	Sample Name:	**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**8-10 ft BGS**	**0-4 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**
					Duplicate		**Duplicate**
Parameters	**Unit**						
Semivolatile Organic Compounds							
Hexachlorobutadiene	µg/kg	190 U	--	--	--	190 U	--
Hexachlorocyclopentadiene	µg/kg	190 U	--	--	--	190 U	--
Hexachloroethane	µg/kg	190 U	--	--	--	190 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	190 U	--	--	--	190 U	--
Isophorone	µg/kg	190 U	--	--	--	190 U	--
N-Nitrosodi-n-propylamine	µg/kg	190 U	--	--	--	190 U	--
N-Nitrosodiphenylamine	µg/kg	190 U	--	--	--	190 U	--
Naphthalene	µg/kg	190 U	--	--	--	190 U	--
Nitrobenzene	µg/kg	190 U	--	--	--	190 U	--
Pentachlorophenol	µg/kg	370 U	--	--	--	380 U	--
Phenanthrene	µg/kg	190 U	--	--	--	190 U	--
Phenol	µg/kg	190 U	--	--	--	190 U	--
Pyrene	µg/kg	190 U	--	--	--	34 J	--
Per/Polyfluoroalkyl Substances							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	--	--	0.79 U	0.83 U	--	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	--	--	0.79 U	0.83 U	--	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	--	--	4.9 U	5.2 U	--	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	--	--	0.99 U	1.0 U	--	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	--	--	4.9 U	5.2 U	--	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	--	--	0.79 U	0.83 U	--	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	--	--	0.79 U	0.83 U	--	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	--	--	0.79 U	0.83 U	--	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	--	--	0.79 U	0.83 U	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	--	--	0.79 U	0.83 U	--	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	--	--	0.20 U	0.21 U	--	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	--	--	0.20 U	0.21 UJ	--	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	--	--	2.0 U	2.1 U	--	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	--	--	0.20 U	0.21 U	--	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	--	--	2.0 U	2.1 U	--	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	--	--	0.20 U	0.21 U	--	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	--	--	0.39 U	0.41 U	--	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	--	--	0.39 U	0.41 U	--	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	--	--	0.39 U	0.41 U	--	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	--	--	0.39 U	0.41 U	--	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorobutanoic acid (PFBA)	µg/kg	--	--	0.79 U	0.83 U	--	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorodecanoic acid (PFDA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorohexanoic acid (PFHxA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorononanoic acid (PFNA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorooctanoic acid (PFOA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluoropentanoic acid (PFPeA)	µg/kg	--	--	0.39 U	0.41 U	--	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	--	--	0.20 U	0.21 U	--	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	--	--	0.20 U	0.21 U	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH3**	**BH4**	**BH5**	**BH5**	**BH5**	**BH5**
	Sample Name:	**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**8-10 ft BGS**	**0-4 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**
					Duplicate		**Duplicate**
Parameters	**Unit**						
Herbicides							
2,4,5-TP (Silvex)	µg/kg	--	19 U	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	19 U	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	--	0.29 U	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	--	0.29 U	--	--	--	--
Pesticides							
4,4'-DDD	µg/kg	--	1.9 U	--	--	--	--
4,4'-DDE	µg/kg	--	1.9 U	--	--	--	--
4,4'-DDT	µg/kg	--	1.9 U	--	--	--	--
Aldrin	µg/kg	--	1.9 U	--	--	--	--
alpha-BHC	µg/kg	--	1.9 U	--	--	--	--
alpha-Chlordane	µg/kg	--	1.9 U	--	--	--	--
beta-BHC	µg/kg	--	1.9 U	--	--	--	--
delta-BHC	µg/kg	--	1.9 U	--	--	--	--
Dieldrin	µg/kg	--	1.9 U	--	--	--	--
Endosulfan I	µg/kg	--	1.9 U	--	--	--	--
Endosulfan II	µg/kg	--	1.9 U	--	--	--	--
Endosulfan sulfate	µg/kg	--	1.9 U	--	--	--	--
Endrin	µg/kg	--	0.51 J	--	--	--	--
Endrin aldehyde	µg/kg	--	1.9 U	--	--	--	--
Endrin ketone	µg/kg	--	1.9 U	--	--	--	--
gamma-BHC (lindane)	µg/kg	--	1.9 U	--	--	--	--
gamma-Chlordane	µg/kg	--	1.9 U	--	--	--	--
Heptachlor	µg/kg	--	1.9 U	--	--	--	--
Heptachlor epoxide	µg/kg	--	1.9 U	--	--	--	--
Methoxychlor	µg/kg	--	1.9 U	--	--	--	--
Toxaphene	µg/kg	--	19 U	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH3**	**BH4**	**BH5**	**BH5**	**BH5**	**BH5**
	Sample Name:	**SO-12656942-KP-121024-001**	**SO-12656942-KP-121024-019**	**SO-12656942-KP-121024-014**	**SO-12656942-KP-121024-033**	**SO-12656942-KP-121024-005**	**SO-12656942-KP-121024-029**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**8-10 ft BGS**	**0-4 ft BGS**	**3-4 ft BGS**	**3-4 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**
					Duplicate		**Duplicate**
Parameters	**Unit**						
Metals							
Aluminum	mg/kg	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--
Calcium	mg/kg	--	--	--	--	--	--
Chromium	mg/kg	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--
Magnesium	mg/kg	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--
Potassium	mg/kg	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--
Sodium	mg/kg	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--
General Chemistry							
Cyanide (total)	mg/kg	--	--	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH5**	**BH6**	**BH6**	**BH6**	**BH6**	**BH7**
	Sample Name:	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-015**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**
		Duplicate		**Duplicate**			
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	--	--	--	4.2 U	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--	4.2 U	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--	4.2 U	--	--
1,1-Dichloroethane	µg/kg	--	--	--	4.2 U	--	--
1,1-Dichloroethene	µg/kg	--	--	--	4.2 U	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--	4.2 U	--	--
1,2,4-Trimethylbenzene	µg/kg	--	--	--	4.2 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--	4.2 U	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--	4.2 U	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--	4.2 U	--	--
1,2-Dichloroethane	µg/kg	--	--	--	4.2 U	--	--
1,2-Dichloropropane	µg/kg	--	--	--	4.2 U	--	--
1,3,5-Trimethylbenzene	µg/kg	--	--	--	4.2 U	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--	4.2 U	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--	4.2 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--	6.7 J	--	--
2-Hexanone	µg/kg	--	--	--	21 U	--	--
2-Phenylbutane (sec-Butylbenzene)	µg/kg	--	--	--	4.2 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--	21 U	--	--
Acetone	µg/kg	--	--	--	21 U	--	--
Benzene	µg/kg	--	--	--	1.1 J	--	--
Bromodichloromethane	µg/kg	--	--	--	4.2 U	--	--
Bromoform	µg/kg	--	--	--	4.2 U	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--	4.2 U	--	--
Carbon disulfide	µg/kg	--	--	--	4.2 U	--	--
Carbon tetrachloride	µg/kg	--	--	--	4.2 U	--	--
Chlorobenzene	µg/kg	--	--	--	4.2 U	--	--
Chloroethane	µg/kg	--	--	--	4.2 U	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--	4.2 U	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--	4.2 U	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--	4.2 U	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--	4.2 U	--	--
Cyclohexane	µg/kg	--	--	--	4.2 U	--	--
Cymene (p-Isopropyltoluene)	µg/kg	--	--	--	4.2 U	--	--
Dibromochloromethane	µg/kg	--	--	--	4.2 U	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--	4.2 U	--	--
Ethylbenzene	µg/kg	--	--	--	1.5 J	--	--
Isopropyl benzene	µg/kg	--	--	--	4.2 U	--	--
Methyl acetate	µg/kg	--	--	--	21 U	--	--
Methyl cyclohexane	µg/kg	--	--	--	4.2 U	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--	4.2 U	--	--
Methylene chloride	µg/kg	--	--	--	4.8	--	--
N-Butylbenzene	µg/kg	--	--	--	0.43 J	--	--
N-Propylbenzene	µg/kg	--	--	--	1.1 J	--	--
Naphthalene	µg/kg	--	--	--	4.2 U	--	--
Styrene	µg/kg	--	--	--	4.2 U	--	--
tert-Butylbenzene	µg/kg	--	--	--	4.2 U	--	--
Tetrachloroethene	µg/kg	--	--	--	4.2 U	--	--
Toluene	µg/kg	--	--	--	2.2 J	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--	4.2 U	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--	4.2 U	--	--
Trichloroethene	µg/kg	--	--	--	4.2 U	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--	4.2 U	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--	4.2 U	--	--
Vinyl chloride	µg/kg	--	--	--	4.2 U	--	--
Xylenes (total)	µg/kg	--	--	--	1.6 J	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH5**	**BH6**	**BH6**	**BH6**	**BH6**	**BH7**
	Sample Name:	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-015**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**
		Duplicate		**Duplicate**			
Parameters	**Unit**						
Semivolatile Organic Compounds							
1,4-Dioxane	µg/kg	120 U	--	--	--	570 U	--
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	200 U	--	--	--	960 U	--
2,4,5-Trichlorophenol	µg/kg	200 U	--	--	--	960 U	--
2,4,6-Trichlorophenol	µg/kg	200 U	--	--	--	960 U	--
2,4-Dichlorophenol	µg/kg	200 U	--	--	--	960 U	--
2,4-Dimethylphenol	µg/kg	200 U	--	--	--	960 U	--
2,4-Dinitrophenol	µg/kg	2000 U	--	--	--	9400 U	--
2,4-Dinitrotoluene	µg/kg	200 U	--	--	--	960 U	--
2,6-Dinitrotoluene	µg/kg	200 U	--	--	--	960 U	--
2-Chloronaphthalene	µg/kg	200 U	--	--	--	960 U	--
2-Chlorophenol	µg/kg	390 U	--	--	--	1900 U	--
2-Methylnaphthalene	µg/kg	200 U	--	--	--	960 U	--
2-Methylphenol	µg/kg	200 U	--	--	--	960 U	--
2-Nitroaniline	µg/kg	390 U	--	--	--	1900 U	--
2-Nitrophenol	µg/kg	200 U	--	--	--	960 U	--
3,3'-Dichlorobenzidine	µg/kg	390 U	--	--	--	1900 U	--
3-Nitroaniline	µg/kg	390 U	--	--	--	1900 U	--
4,6-Dinitro-2-methylphenol	µg/kg	390 U	--	--	--	1900 U	--
4-Bromophenyl phenyl ether	µg/kg	200 U	--	--	--	960 U	--
4-Chloro-3-methylphenol	µg/kg	200 U	--	--	--	960 U	--
4-Chloroaniline	µg/kg	200 U	--	--	--	960 U	--
4-Chlorophenyl phenyl ether	µg/kg	200 U	--	--	--	960 U	--
4-Methylphenol	µg/kg	390 U	--	--	--	1900 U	--
4-Nitroaniline	µg/kg	390 U	--	--	--	1900 U	--
4-Nitrophenol	µg/kg	390 U	--	--	--	1900 U	--
Acenaphthene	µg/kg	200 U	--	--	--	960 U	--
Acenaphthylene	µg/kg	200 U	--	--	--	960 U	--
Acetophenone	µg/kg	200 U	--	--	--	960 U	--
Anthracene	µg/kg	200 U	--	--	--	960 U	--
Atrazine	µg/kg	200 U	--	--	--	960 U	--
Benzaldehyde	µg/kg	200 U	--	--	--	960 U	--
Benzo(a)anthracene	µg/kg	200 U	--	--	--	810 J	--
Benzo(a)pyrene	µg/kg	200 U	--	--	--	1300	--
Benzo(b)fluoranthene	µg/kg	200 U	--	--	--	1700	--
Benzo(g,h,i)perylene	µg/kg	200 U	--	--	--	1100	--
Benzo(k)fluoranthene	µg/kg	200 U	--	--	--	710 J	--
Biphenyl (1,1-Biphenyl)	µg/kg	200 U	--	--	--	960 U	--
bis(2-Chloroethoxy)methane	µg/kg	200 U	--	--	--	960 U	--
bis(2-Chloroethyl)ether	µg/kg	200 U	--	--	--	960 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	87 J	--	--	--	960 U	--
Butyl benzylphthalate (BBP)	µg/kg	200 U	--	--	--	960 U	--
Caprolactam	µg/kg	200 U	--	--	--	960 U	--
Carbazole	µg/kg	200 U	--	--	--	960 U	--
Chrysene	µg/kg	200 U	--	--	--	1000	--
Di-n-butylphthalate (DBP)	µg/kg	200 U	--	--	--	960 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	200 U	--	--	--	960 U	--
Dibenz(a,h)anthracene	µg/kg	200 U	--	--	--	360 J	--
Dibenzofuran	µg/kg	200 U	--	--	--	960 U	--
Diethyl phthalate	µg/kg	200 U	--	--	--	960 U	--
Dimethyl phthalate	µg/kg	200 U	--	--	--	960 U	--
Fluoranthene	µg/kg	37 J	--	--	--	760 J	--
Fluorene	µg/kg	200 U	--	--	--	960 U	--
Hexachlorobenzene	µg/kg	200 U	--	--	--	960 U	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH5**	**BH6**	**BH6**	**BH6**	**BH6**	**BH7**
	Sample Name:	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-015**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**
		Duplicate		**Duplicate**			
Parameters	**Unit**						
Semivolatile Organic Compounds							
Hexachlorobutadiene	µg/kg	200 U	--	--	--	960 U	--
Hexachlorocyclopentadiene	µg/kg	200 U	--	--	--	960 U	--
Hexachloroethane	µg/kg	200 U	--	--	--	960 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	200 U	--	--	--	920 J	--
Isophorone	µg/kg	200 U	--	--	--	960 U	--
N-Nitrosodi-n-propylamine	µg/kg	200 U	--	--	--	960 U	--
N-Nitrosodiphenylamine	µg/kg	200 U	--	--	--	960 U	--
Naphthalene	µg/kg	200 U	--	--	--	960 U	--
Nitrobenzene	µg/kg	200 U	--	--	--	960 U	--
Pentachlorophenol	µg/kg	390 U	--	--	--	1900 U	--
Phenanthrene	µg/kg	200 U	--	--	--	170 J	--
Phenol	µg/kg	200 U	--	--	--	960 U	--
Pyrene	µg/kg	32 J	--	--	--	760 J	--
Per/Polyfluoroalkyl Substances							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	--	--	--	--	--	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	--	--	--	--	--	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	--	--	--	--	--	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	--	--	--	--	--	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	--	--	--	--	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	--	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	--	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	--	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	--	--	--	--	--	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	--	--	--	--	--	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	--	--	--	--	--	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	--	--	--	--	--	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	--	--	--	--	--	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	--	--	--	--	--	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	--	--	--	--	--	--
Perfluorobutanoic acid (PFBA)	µg/kg	--	--	--	--	--	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	--	--	--	--	--	--
Perfluorodecanoic acid (PFDA)	µg/kg	--	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	--	--	--	--	--	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	--	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	--	--	--	--	--	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	--	--	--	--	--	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	--	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	µg/kg	--	--	--	--	--	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	--	--	--	--	--	--
Perfluorononanoic acid (PFNA)	µg/kg	--	--	--	--	--	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	--	--	--	--	--	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	--	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	µg/kg	--	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	--	--	--	--	--	--
Perfluoropentanoic acid (PFPeA)	µg/kg	--	--	--	--	--	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	--	--	--	--	--	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	--	--	--	--	--	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	--	--	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH5**	**BH6**	**BH6**	**BH6**	**BH6**	**BH7**
	Sample Name:	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-015**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**
		Duplicate		**Duplicate**			
Parameters	**Unit**						
Herbicides							
2,4,5-TP (Silvex)	µg/kg	--	--	--	--	--	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--	--	--	22 U
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1221 (PCB-1221)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1232 (PCB-1232)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1242 (PCB-1242)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1248 (PCB-1248)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1254 (PCB-1254)	mg/kg	--	--	--	--	--	0.23 U
Aroclor-1260 (PCB-1260)	mg/kg	--	--	--	--	--	0.23 U
Pesticides							
4,4'-DDD	µg/kg	--	--	--	--	--	2.2 U
4,4'-DDE	µg/kg	--	--	--	--	--	2.2 U
4,4'-DDT	µg/kg	--	--	--	--	--	2.2 U
Aldrin	µg/kg	--	--	--	--	--	2.2 U
alpha-BHC	µg/kg	--	--	--	--	--	2.2 U
alpha-Chlordane	µg/kg	--	--	--	--	--	2.2 U
beta-BHC	µg/kg	--	--	--	--	--	2.2 U
delta-BHC	µg/kg	--	--	--	--	--	2.2 U
Dieldrin	µg/kg	--	--	--	--	--	2.2 U
Endosulfan I	µg/kg	--	--	--	--	--	2.2 U
Endosulfan II	µg/kg	--	--	--	--	--	2.2 U
Endosulfan sulfate	µg/kg	--	--	--	--	--	2.2 U
Endrin	µg/kg	--	--	--	--	--	2.2 U
Endrin aldehyde	µg/kg	--	--	--	--	--	2.2 U
Endrin ketone	µg/kg	--	--	--	--	--	2.2 U
gamma-BHC (lindane)	µg/kg	--	--	--	--	--	2.2 U
gamma-Chlordane	µg/kg	--	--	--	--	--	2.2 U
Heptachlor	µg/kg	--	--	--	--	--	2.2 U
Heptachlor epoxide	µg/kg	--	--	--	--	--	2.2 U
Methoxychlor	µg/kg	--	--	--	--	--	2.2 U
Toxaphene	µg/kg	--	--	--	--	--	22 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH5**	**BH6**	**BH6**	**BH6**	**BH6**	**BH7**
	Sample Name:	**SO-12656942-KP-121024-030**	**SO-12656942-KP-121024-006**	**SO-12656942-KP-121024-031**	**SO-12656942-KP-121024-017**	**SO-12656942-KP-121024-018**	**SO-12656942-KP-121024-015**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**	**4-6 ft BGS**
		Duplicate		**Duplicate**			
Parameters	**Unit**						
Metals							
Aluminum	mg/kg	--	15000	16000	--	7700	--
Antimony	mg/kg	--	18 U	18 U	--	16 U	--
Arsenic	mg/kg	--	3.8	3.2	--	7.1	--
Barium	mg/kg	--	82	73	--	63	--
Beryllium	mg/kg	--	0.61	0.64	--	0.58	--
Cadmium	mg/kg	--	0.34	0.20 J	--	0.18 J	--
Calcium	mg/kg	--	26000	37000	--	42000	--
Chromium	mg/kg	--	18	19	--	21	--
Cobalt	mg/kg	--	10	7.8	--	4.9	--
Copper	mg/kg	--	20	19	--	60	--
Iron	mg/kg	--	19000	18000	--	60000	--
Lead	mg/kg	--	16	16	--	130	--
Magnesium	mg/kg	--	17000	23000	--	13000	--
Manganese	mg/kg	--	760	440	--	650	--
Mercury	mg/kg	--	0.019 J	0.033	--	0.062	--
Nickel	mg/kg	--	22	19	--	30	--
Potassium	mg/kg	--	3900	4300	--	1100	--
Selenium	mg/kg	--	4.9 U	4.8 U	--	4.4 U	--
Silver	mg/kg	--	0.45 J	0.41 J	--	0.66 U	--
Sodium	mg/kg	--	340	320	--	210	--
Thallium	mg/kg	--	7.3 U	7.2 U	--	6.6 U	--
Vanadium	mg/kg	--	30	31	--	22	--
Zinc	mg/kg	--	69	71	--	62	--
General Chemistry							
Cyanide (total)	mg/kg	--	1.2 U	1.0 U	--	1.0 U	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH7**	**BH7**	**BH8**	**BH8**	**BH8**	**BH8**
	Sample Name:	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-022**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
			Duplicate				
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,1,2-Trichloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,1-Dichloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,1-Dichloroethene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2,4-Trimethylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2-Dichlorobenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2-Dichloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,2-Dichloropropane	µg/kg	--	--	4.0 U	3.7 U	--	--
1,3,5-Trimethylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,3-Dichlorobenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
1,4-Dichlorobenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	20 U	27	--	--
2-Hexanone	µg/kg	--	--	20 U	19 U	--	--
2-Phenylbutane (sec-Butylbenzene)	µg/kg	--	--	4.0 U	3.7 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	20 U	19 U	--	--
Acetone	µg/kg	--	--	44	140	--	--
Benzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Bromodichloromethane	µg/kg	--	--	4.0 U	3.7 U	--	--
Bromoform	µg/kg	--	--	4.0 U	3.7 U	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	4.0 U	3.7 U	--	--
Carbon disulfide	µg/kg	--	--	4.0 U	3.7 U	--	--
Carbon tetrachloride	µg/kg	--	--	4.0 U	3.7 U	--	--
Chlorobenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Chloroethane	µg/kg	--	--	4.0 U	3.7 U	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	4.0 U	3.7 U	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	4.0 U	3.7 U	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	4.0 U	3.7 U	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	4.0 U	3.7 U	--	--
Cyclohexane	µg/kg	--	--	4.0 U	3.7 U	--	--
Cymene (p-Isopropyltoluene)	µg/kg	--	--	4.0 U	0.30 J	--	--
Dibromochloromethane	µg/kg	--	--	4.0 U	3.7 U	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	4.0 U	3.7 U	--	--
Ethylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Isopropyl benzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Methyl acetate	µg/kg	--	--	20 U	19 U	--	--
Methyl cyclohexane	µg/kg	--	--	4.0 U	3.7 U	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	4.0 U	3.7 U	--	--
Methylene chloride	µg/kg	--	--	4.0 U	1.9 J	--	--
N-Butylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
N-Propylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Naphthalene	µg/kg	--	--	4.0 U	3.7 U	--	--
Styrene	µg/kg	--	--	4.0 U	3.7 U	--	--
tert-Butylbenzene	µg/kg	--	--	4.0 U	3.7 U	--	--
Tetrachloroethene	µg/kg	--	--	4.0 U	3.7 U	--	--
Toluene	µg/kg	--	--	4.0 U	3.7 U	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	4.0 U	3.7 U	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	4.0 U	3.7 U	--	--
Trichloroethene	µg/kg	--	--	4.0 U	3.7 U	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	4.0 U	3.7 U	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	4.0 U	3.7 U	--	--
Vinyl chloride	µg/kg	--	--	4.0 U	3.7 U	--	--
Xylenes (total)	µg/kg	--	--	7.9 U	7.5 U	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH7**	**BH7**	**BH8**	**BH8**	**BH8**	**BH8**
	Sample Name:	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-022**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
			Duplicate				
Parameters	**Unit**						
Semivolatile Organic Compounds							
1,4-Dioxane	µg/kg	--	--	--	130 U	--	540 U
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--	220 U	--	920 U
2,4,5-Trichlorophenol	µg/kg	--	--	--	220 U	--	920 U
2,4,6-Trichlorophenol	µg/kg	--	--	--	220 U	--	920 U
2,4-Dichlorophenol	µg/kg	--	--	--	220 U	--	920 U
2,4-Dimethylphenol	µg/kg	--	--	--	220 U	--	920 U
2,4-Dinitrophenol	µg/kg	--	--	--	2200 U	--	9000 U
2,4-Dinitrotoluene	µg/kg	--	--	--	220 U	--	920 U
2,6-Dinitrotoluene	µg/kg	--	--	--	220 U	--	920 U
2-Chloronaphthalene	µg/kg	--	--	--	220 U	--	920 U
2-Chlorophenol	µg/kg	--	--	--	430 U	--	1800 U
2-Methylnaphthalene	µg/kg	--	--	--	220 U	--	920 U
2-Methylphenol	µg/kg	--	--	--	220 U	--	920 U
2-Nitroaniline	µg/kg	--	--	--	430 U	--	1800 U
2-Nitrophenol	µg/kg	--	--	--	220 U	--	920 U
3,3'-Dichlorobenzidine	µg/kg	--	--	--	430 U	--	1800 U
3-Nitroaniline	µg/kg	--	--	--	430 U	--	1800 U
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--	430 U	--	1800 U
4-Bromophenyl phenyl ether	µg/kg	--	--	--	220 U	--	920 U
4-Chloro-3-methylphenol	µg/kg	--	--	--	220 U	--	920 U
4-Chloroaniline	µg/kg	--	--	--	220 U	--	920 U
4-Chlorophenyl phenyl ether	µg/kg	--	--	--	220 U	--	920 U
4-Methylphenol	µg/kg	--	--	--	430 U	--	1800 U
4-Nitroaniline	µg/kg	--	--	--	430 U	--	1800 U
4-Nitrophenol	µg/kg	--	--	--	430 U	--	1800 U
Acenaphthene	µg/kg	--	--	--	220 U	--	270 J
Acenaphthylene	µg/kg	--	--	--	54 J	--	920 U
Acetophenone	µg/kg	--	--	--	220 U	--	920 U
Anthracene	µg/kg	--	--	--	120 J	--	1100
Atrazine	µg/kg	--	--	--	220 U	--	920 U
Benzaldehyde	µg/kg	--	--	--	220 U	--	920 U
Benzo(a)anthracene	µg/kg	--	--	--	540	--	2300
Benzo(a)pyrene	µg/kg	--	--	--	310	--	2100
Benzo(b)fluoranthene	µg/kg	--	--	--	430	--	2400
Benzo(g,h,i)perylene	µg/kg	--	--	--	180 J	--	1300
Benzo(k)fluoranthene	µg/kg	--	--	--	240	--	1200
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--	220 U	--	920 U
bis(2-Chloroethoxy)methane	µg/kg	--	--	--	220 U	--	920 U
bis(2-Chloroethyl)ether	µg/kg	--	--	--	220 U	--	920 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--	220 U	--	920 U
Butyl benzylphthalate (BBP)	µg/kg	--	--	--	220 U	--	920 U
Caprolactam	µg/kg	--	--	--	220 U	--	920 U
Carbazole	µg/kg	--	--	--	82 J	--	410 J
Chrysene	µg/kg	--	--	--	500	--	2300
Di-n-butylphthalate (DBP)	µg/kg	--	--	--	220 U	--	920 U
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--	220 U	--	920 U
Dibenz(a,h)anthracene	µg/kg	--	--	--	47 J	--	410 J
Dibenzofuran	µg/kg	--	--	--	220 U	--	190 J
Diethyl phthalate	µg/kg	--	--	--	220 U	--	920 U
Dimethyl phthalate	µg/kg	--	--	--	220 U	--	920 U
Fluoranthene	µg/kg	--	--	--	1300	--	4900
Fluorene	µg/kg	--	--	--	30 J	--	340 J
Hexachlorobenzene	µg/kg	--	--	--	220 U	--	920 U

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH7**	**BH7**	**BH8**	**BH8**	**BH8**	**BH8**
	Sample Name:	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-022**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
			Duplicate				
Parameters	**Unit**						
Semivolatile Organic Compounds							
Hexachlorobutadiene	µg/kg	--	--	--	220 U	--	920 U
Hexachlorocyclopentadiene	µg/kg	--	--	--	220 U	--	920 U
Hexachloroethane	µg/kg	--	--	--	220 U	--	920 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--	150 J	--	1100
Isophorone	µg/kg	--	--	--	220 U	--	920 U
N-Nitrosodi-n-propylamine	µg/kg	--	--	--	220 U	--	920 U
N-Nitrosodiphenylamine	µg/kg	--	--	--	220 U	--	920 U
Naphthalene	µg/kg	--	--	--	40 J	--	920 U
Nitrobenzene	µg/kg	--	--	--	220 U	--	920 U
Pentachlorophenol	µg/kg	--	--	--	430 U	--	1800 U
Phenanthrene	µg/kg	--	--	--	410	--	3900
Phenol	µg/kg	--	--	--	220 U	--	920 U
Pyrene	µg/kg	--	--	--	1000	--	4000
Per/Polyfluoroalkyl Substances							
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	0.74 U	--	--	--	--	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	0.74 U	--	--	--	--	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	4.6 U	--	--	--	--	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	0.92 U	--	--	--	--	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	4.6 U	--	--	--	--	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	0.74 U	--	--	--	--	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	0.74 U	--	--	--	--	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	0.74 U	--	--	--	--	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	0.74 U	--	--	--	--	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	0.74 U	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	0.18 U	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	0.18 U	--	--	--	--	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	1.8 U	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	0.18 U	--	--	--	--	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	1.8 U	--	--	--	--	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	0.18 U	--	--	--	--	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	0.37 U	--	--	--	--	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	0.37 U	--	--	--	--	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	0.37 U	--	--	--	--	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	0.37 U	--	--	--	--	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorobutanoic acid (PFBA)	µg/kg	0.74 U	--	--	--	--	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorodecanoic acid (PFDA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	0.18 U	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	0.18 U	--	--	--	--	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorononanoic acid (PFNA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	0.18 U	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	µg/kg	0.18 U	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	0.18 U	--	--	--	--	--
Perfluoropentanoic acid (PFPeA)	µg/kg	0.37 U	--	--	--	--	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	0.18 U	--	--	--	--	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	0.18 U	--	--	--	--	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	0.18 U	--	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH7**	**BH7**	**BH8**	**BH8**	**BH8**	**BH8**
	Sample Name:	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-022**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
			Duplicate				
Parameters	**Unit**						
Herbicides							
2,4,5-TP (Silvex)	µg/kg	--	20 U	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	20 U	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	--	0.24 U	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	--	0.24 U	--	--	--	--
Pesticides							
4,4'-DDD	µg/kg	--	2.1 U	--	--	--	--
4,4'-DDE	µg/kg	--	2.1 U	--	--	--	--
4,4'-DDT	µg/kg	--	2.1 U	--	--	--	--
Aldrin	µg/kg	--	2.1 U	--	--	--	--
alpha-BHC	µg/kg	--	2.1 U	--	--	--	--
alpha-Chlordane	µg/kg	--	2.1 U	--	--	--	--
beta-BHC	µg/kg	--	2.1 U	--	--	--	--
delta-BHC	µg/kg	--	2.1 U	--	--	--	--
Dieldrin	µg/kg	--	2.1 U	--	--	--	--
Endosulfan I	µg/kg	--	2.1 U	--	--	--	--
Endosulfan II	µg/kg	--	2.1 U	--	--	--	--
Endosulfan sulfate	µg/kg	--	2.1 U	--	--	--	--
Endrin	µg/kg	--	2.1 U	--	--	--	--
Endrin aldehyde	µg/kg	--	2.1 U	--	--	--	--
Endrin ketone	µg/kg	--	2.1 U	--	--	--	--
gamma-BHC (lindane)	µg/kg	--	2.1 U	--	--	--	--
gamma-Chlordane	µg/kg	--	2.1 U	--	--	--	--
Heptachlor	µg/kg	--	2.1 U	--	--	--	--
Heptachlor epoxide	µg/kg	--	2.1 U	--	--	--	--
Methoxychlor	µg/kg	--	2.1 U	--	--	--	--
Toxaphene	µg/kg	--	21 U	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH7**	**BH7**	**BH8**	**BH8**	**BH8**	**BH8**
	Sample Name:	**SO-12656942-KP-121024-016**	**SO-12656942-KP-121024-032**	**SO-12656942-KP-121024-021**	**SO-12656942-KP-121024-007**	**SO-12656942-KP-121024-008**	**SO-12656942-KP-121024-022**
	Sample Date:	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**	**12/10/2024**
	Depth:	**4-6 ft BGS**	**4-6 ft BGS**	**1.5-2.5 ft BGS**	**4-6 ft BGS**	**4-6 ft BGS**	**0-1.5 ft BGS**
			Duplicate				
Parameters	**Unit**						
Metals							
Aluminum	mg/kg	--	--	--	--	19000	13000
Antimony	mg/kg	--	--	--	--	20 U	17 U
Arsenic	mg/kg	--	--	--	--	8.0	6.9
Barium	mg/kg	--	--	--	--	120	110
Beryllium	mg/kg	--	--	--	--	0.81	0.66
Cadmium	mg/kg	--	--	--	--	0.74	0.69
Calcium	mg/kg	--	--	--	--	24000	37000
Chromium	mg/kg	--	--	--	--	22	19
Cobalt	mg/kg	--	--	--	--	12	5.9
Copper	mg/kg	--	--	--	--	46	56
Iron	mg/kg	--	--	--	--	31000	25000
Lead	mg/kg	--	--	--	--	150	110
Magnesium	mg/kg	--	--	--	--	12000	6800
Manganese	mg/kg	--	--	--	--	2400	770
Mercury	mg/kg	--	--	--	--	0.17	0.093
Nickel	mg/kg	--	--	--	--	19	17
Potassium	mg/kg	--	--	--	--	3900	2400
Selenium	mg/kg	--	--	--	--	1.7 J	4.6 U
Silver	mg/kg	--	--	--	--	0.50 J	0.69 U
Sodium	mg/kg	--	--	--	--	1600	1300
Thallium	mg/kg	--	--	--	--	1.0 J	0.88 J
Vanadium	mg/kg	--	--	--	--	37	23
Zinc	mg/kg	--	--	--	--	200	130
General Chemistry							
Cyanide (total)	mg/kg	--	--	--	--	1.3 UJ	0.75 J

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH9**	**BH9**	**BH9**	**BH9**
	Sample Name:	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**	**SO-12656942-KP-121024-024**	**SO-12656942-KP-121024-040**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	4.4 U	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	4.4 U	--	--	--
1,1,2-Trichloroethane	µg/kg	4.4 U	--	--	--
1,1-Dichloroethane	µg/kg	4.4 U	--	--	--
1,1-Dichloroethene	µg/kg	4.4 U	--	--	--
1,2,4-Trichlorobenzene	µg/kg	4.4 U	--	--	--
1,2,4-Trimethylbenzene	µg/kg	4.4 U	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.4 U	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	4.4 U	--	--	--
1,2-Dichlorobenzene	µg/kg	4.4 U	--	--	--
1,2-Dichloroethane	µg/kg	4.4 U	--	--	--
1,2-Dichloropropane	µg/kg	4.4 U	--	--	--
1,3,5-Trimethylbenzene	µg/kg	4.4 U	--	--	--
1,3-Dichlorobenzene	µg/kg	4.4 U	--	--	--
1,4-Dichlorobenzene	µg/kg	4.4 U	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	22 U	--	--	--
2-Hexanone	µg/kg	22 U	--	--	--
2-Phenylbutane (sec-Butylbenzene)	µg/kg	4.4 U	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	22 U	--	--	--
Acetone	µg/kg	22 U	--	--	--
Benzene	µg/kg	4.4 U	--	--	--
Bromodichloromethane	µg/kg	4.4 U	--	--	--
Bromoform	µg/kg	4.4 U	--	--	--
Bromomethane (Methyl bromide)	µg/kg	4.4 U	--	--	--
Carbon disulfide	µg/kg	4.4 U	--	--	--
Carbon tetrachloride	µg/kg	4.4 U	--	--	--
Chlorobenzene	µg/kg	4.4 U	--	--	--
Chloroethane	µg/kg	4.4 U	--	--	--
Chloroform (Trichloromethane)	µg/kg	4.4 U	--	--	--
Chloromethane (Methyl chloride)	µg/kg	4.4 U	--	--	--
cis-1,2-Dichloroethene	µg/kg	4.4 U	--	--	--
cis-1,3-Dichloropropene	µg/kg	4.4 U	--	--	--
Cyclohexane	µg/kg	4.4 U	--	--	--
Cymene (p-Isopropyltoluene)	µg/kg	4.4 U	--	--	--
Dibromochloromethane	µg/kg	4.4 U	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	4.4 U	--	--	--
Ethylbenzene	µg/kg	4.4 U	--	--	--
Isopropyl benzene	µg/kg	4.4 U	--	--	--
Methyl acetate	µg/kg	22 U	--	--	--
Methyl cyclohexane	µg/kg	4.4 U	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	4.4 U	--	--	--
Methylene chloride	µg/kg	4.4 U	--	--	--
N-Butylbenzene	µg/kg	4.4 U	--	--	--
N-Propylbenzene	µg/kg	4.4 U	--	--	--
Naphthalene	µg/kg	4.4 U	--	--	--
Styrene	µg/kg	4.4 U	--	--	--
tert-Butylbenzene	µg/kg	4.4 U	--	--	--
Tetrachloroethene	µg/kg	4.4 U	--	--	--
Toluene	µg/kg	4.4 U	--	--	--
trans-1,2-Dichloroethene	µg/kg	4.4 U	--	--	--
trans-1,3-Dichloropropene	µg/kg	4.4 U	--	--	--
Trichloroethene	µg/kg	4.4 U	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	4.4 U	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	4.4 U	--	--	--
Vinyl chloride	µg/kg	4.4 U	--	--	--
Xylenes (total)	µg/kg	8.9 U	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH9**	**BH9**	**BH9**	**BH9**
	Sample Name:	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**	**SO-12656942-KP-121024-024**	**SO-12656942-KP-121024-040**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
1,4-Dioxane	µg/kg	130 U	--	--	--
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	210 U	--	--	--
2,4,5-Trichlorophenol	µg/kg	210 U	--	--	--
2,4,6-Trichlorophenol	µg/kg	210 U	--	--	--
2,4-Dichlorophenol	µg/kg	210 U	--	--	--
2,4-Dimethylphenol	µg/kg	210 U	--	--	--
2,4-Dinitrophenol	µg/kg	2100 U	--	--	--
2,4-Dinitrotoluene	µg/kg	210 U	--	--	--
2,6-Dinitrotoluene	µg/kg	210 U	--	--	--
2-Chloronaphthalene	µg/kg	210 U	--	--	--
2-Chlorophenol	µg/kg	410 U	--	--	--
2-Methylnaphthalene	µg/kg	84 J	--	--	--
2-Methylphenol	µg/kg	210 U	--	--	--
2-Nitroaniline	µg/kg	410 U	--	--	--
2-Nitrophenol	µg/kg	210 U	--	--	--
3,3'-Dichlorobenzidine	µg/kg	410 U	--	--	--
3-Nitroaniline	µg/kg	410 U	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	410 U	--	--	--
4-Bromophenyl phenyl ether	µg/kg	210 U	--	--	--
4-Chloro-3-methylphenol	µg/kg	210 U	--	--	--
4-Chloroaniline	µg/kg	210 U	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	210 U	--	--	--
4-Methylphenol	µg/kg	410 U	--	--	--
4-Nitroaniline	µg/kg	410 U	--	--	--
4-Nitrophenol	µg/kg	410 U	--	--	--
Acenaphthene	µg/kg	210 U	--	--	--
Acenaphthylene	µg/kg	210 U	--	--	--
Acetophenone	µg/kg	210 U	--	--	--
Anthracene	µg/kg	210 U	--	--	--
Atrazine	µg/kg	210 U	--	--	--
Benzaldehyde	µg/kg	210 U	--	--	--
Benzo(a)anthracene	µg/kg	150 J	--	--	--
Benzo(a)pyrene	µg/kg	150 J	--	--	--
Benzo(b)fluoranthene	µg/kg	200 J	--	--	--
Benzo(g,h,i)perylene	µg/kg	130 J	--	--	--
Benzo(k)fluoranthene	µg/kg	84 J	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	210 U	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	210 U	--	--	--
bis(2-Chloroethyl)ether	µg/kg	210 U	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	210 U	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	210 U	--	--	--
Caprolactam	µg/kg	210 U	--	--	--
Carbazole	µg/kg	210 U	--	--	--
Chrysene	µg/kg	170 J	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	210 U	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	210 U	--	--	--
Dibenz(a,h)anthracene	µg/kg	39 J	--	--	--
Dibenzofuran	µg/kg	33 J	--	--	--
Diethyl phthalate	µg/kg	210 U	--	--	--
Dimethyl phthalate	µg/kg	210 U	--	--	--
Fluoranthene	µg/kg	280	--	--	--
Fluorene	µg/kg	210 U	--	--	--
Hexachlorobenzene	µg/kg	210 U	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH9**	**BH9**	**BH9**	**BH9**
	Sample Name:	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**	**SO-12656942-KP-121024-024**	**SO-12656942-KP-121024-040**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Hexachlorobutadiene	µg/kg	210 U	--	--	--
Hexachlorocyclopentadiene	µg/kg	210 U	--	--	--
Hexachloroethane	µg/kg	210 U	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	97 J	--	--	--
Isophorone	µg/kg	210 U	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	210 U	--	--	--
N-Nitrosodiphenylamine	µg/kg	210 U	--	--	--
Naphthalene	µg/kg	40 J	--	--	--
Nitrobenzene	µg/kg	210 U	--	--	--
Pentachlorophenol	µg/kg	410 U	--	--	--
Phenanthrene	µg/kg	210	--	--	--
Phenol	µg/kg	210 U	--	--	--
Pyrene	µg/kg	240	--	--	--
Per/Polyfluoroalkyl Substances					
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	µg/kg	--	--	0.77 U	--
2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-propanoic acid (DONA)	µg/kg	--	--	0.77 U	--
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	µg/kg	--	--	4.8 U	--
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	µg/kg	--	--	0.96 U	--
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	µg/kg	--	--	4.8 U	--
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	µg/kg	--	--	0.77 U	--
Fluorotelomer sulfonic acid (4:2)	µg/kg	--	--	0.77 U	--
Fluorotelomer sulfonic acid (6:2)	µg/kg	--	--	0.77 U	--
Fluorotelomer sulfonic acid (8:2)	µg/kg	--	--	0.77 U	--
Hexafluoropropylene oxide dimer acid (HFPO-DA)	µg/kg	--	--	0.77 U	--
N-Ethyl perfluorooctane sulfonamide (EtFOSE)	µg/kg	--	--	0.19 U	--
N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	µg/kg	--	--	0.19 U	--
N-Ethyl perfluorooctane sulfonamido ethanol (N-EtFOSE)	µg/kg	--	--	1.9 U	--
N-Methyl perfluorooctane sulfonamido acetic acid	µg/kg	--	--	0.19 U	--
N-Methyl perfluorooctane sulfonamido ethanol (MeFOSE)	µg/kg	--	--	1.9 U	--
N-Methyl-perfluorooctane sulfonamide	µg/kg	--	--	0.19 U	--
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	µg/kg	--	--	0.39 U	--
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	µg/kg	--	--	0.39 U	--
Perfluoro-3-methoxypropanoic acid (PFMPA)	µg/kg	--	--	0.39 U	--
Perfluoro-4-methoxybutanoic acid (PFMBA)	µg/kg	--	--	0.39 U	--
Perfluorobutane sulfonic acid (PFBS)	µg/kg	--	--	0.19 U	--
Perfluorobutanoic acid (PFBA)	µg/kg	--	--	0.77 U	--
Perfluorodecanesulfonic acid (PFDS)	µg/kg	--	--	0.19 U	--
Perfluorodecanoic acid (PFDA)	µg/kg	--	--	0.19 U	--
Perfluorododecane sulfonic acid (PFDoDS)	µg/kg	--	--	0.19 U	--
Perfluorododecanoic acid (PFDoDA)	µg/kg	--	--	0.19 U	--
Perfluoroheptane sulfonic acid (PFHpS)	µg/kg	--	--	0.19 U	--
Perfluoroheptanoic acid (PFHpA)	µg/kg	--	--	0.19 U	--
Perfluorohexane sulfonic acid (PFHxS)	µg/kg	--	--	0.19 U	--
Perfluorohexanoic acid (PFHxA)	µg/kg	--	--	0.19 U	--
Perfluorononane sulfonic acid (PFNS)	µg/kg	--	--	0.19 U	--
Perfluorononanoic acid (PFNA)	µg/kg	--	--	0.19 U	--
Perfluorooctane sulfonamide (FOSA)	µg/kg	--	--	0.19 U	--
Perfluorooctane sulfonic acid (PFOS)	µg/kg	--	--	0.19 U	--
Perfluorooctanoic acid (PFOA)	µg/kg	--	--	0.19 U	--
Perfluoropentane sulfonic acid (PFPeS)	µg/kg	--	--	0.19 U	--
Perfluoropentanoic acid (PFPeA)	µg/kg	--	--	0.39 U	--
Perfluorotetradecanoic acid (PFTeDA)	µg/kg	--	--	0.19 U	--
Perfluorotridecanoic acid (PFTrDA)	µg/kg	--	--	0.19 U	--
Perfluoroundecanoic acid (PFUnA)	µg/kg	--	--	0.19 U	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH9**	**BH9**	**BH9**	**BH9**
	Sample Name:	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**	**SO-12656942-KP-121024-024**	**SO-12656942-KP-121024-040**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-TP (Silvex)	µg/kg	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	--	--	--	0.21 U
Aroclor-1221 (PCB-1221)	mg/kg	--	--	--	0.21 U
Aroclor-1232 (PCB-1232)	mg/kg	--	--	--	0.21 U
Aroclor-1242 (PCB-1242)	mg/kg	--	--	--	0.21 U
Aroclor-1248 (PCB-1248)	mg/kg	--	--	--	0.21 U
Aroclor-1254 (PCB-1254)	mg/kg	--	--	--	0.21 U
Aroclor-1260 (PCB-1260)	mg/kg	--	--	--	0.21 U
Pesticides					
4,4'-DDD	µg/kg	--	--	--	--
4,4'-DDE	µg/kg	--	--	--	--
4,4'-DDT	µg/kg	--	--	--	--
Aldrin	µg/kg	--	--	--	--
alpha-BHC	µg/kg	--	--	--	--
alpha-Chlordane	µg/kg	--	--	--	--
beta-BHC	µg/kg	--	--	--	--
delta-BHC	µg/kg	--	--	--	--
Dieldrin	µg/kg	--	--	--	--
Endosulfan I	µg/kg	--	--	--	--
Endosulfan II	µg/kg	--	--	--	--
Endosulfan sulfate	µg/kg	--	--	--	--
Endrin	µg/kg	--	--	--	--
Endrin aldehyde	µg/kg	--	--	--	--
Endrin ketone	µg/kg	--	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--	--
gamma-Chlordane	µg/kg	--	--	--	--
Heptachlor	µg/kg	--	--	--	--
Heptachlor epoxide	µg/kg	--	--	--	--
Methoxychlor	µg/kg	--	--	--	--
Toxaphene	µg/kg	--	--	--	--

Table 2B

Analytical Results Summary
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

	Location ID:	**BH9**	**BH9**	**BH9**	**BH9**
	Sample Name:	**SO-12656942-KP-121024-011**	**SO-12656942-KP-121024-012**	**SO-12656942-KP-121024-024**	**SO-12656942-KP-121024-040**
	Sample Date:	**12/11/2024**	**12/11/2024**	**12/11/2024**	**12/11/2024**
	Depth:	**3-4 ft BGS**	**3-4 ft BGS**	**0-3 ft BGS**	**0-3 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	--	20000	--	--
Antimony	mg/kg	--	19 U	--	--
Arsenic	mg/kg	--	9.5	--	--
Barium	mg/kg	--	120	--	--
Beryllium	mg/kg	--	0.89	--	--
Cadmium	mg/kg	--	0.53	--	--
Calcium	mg/kg	--	7500	--	--
Chromium	mg/kg	--	23	--	--
Cobalt	mg/kg	--	11	--	--
Copper	mg/kg	--	84	--	--
Iron	mg/kg	--	25000	--	--
Lead	mg/kg	--	150	--	--
Magnesium	mg/kg	--	5500	--	--
Manganese	mg/kg	--	540	--	--
Mercury	mg/kg	--	0.17	--	--
Nickel	mg/kg	--	23	--	--
Potassium	mg/kg	--	4000	--	--
Selenium	mg/kg	--	1.2 J	--	--
Silver	mg/kg	--	0.77 U	--	--
Sodium	mg/kg	--	270	--	--
Thallium	mg/kg	--	7.7 U	--	--
Vanadium	mg/kg	--	38	--	--
Zinc	mg/kg	--	230	--	--
General Chemistry					
Cyanide (total)	mg/kg	--	1.2 U	--	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
J+ - Estimated concentration; result may be biased high
J- - Estimated concentration; result may be biased low
UJ - Not detected; associated reporting limit is estimated
R - Rejected
-- - Not analyzed
PCBs - Polychlorinated Biphenyls

Table 3

Analytical Methods
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

			Holding Time	
Parameter	**Method**	**Matrix**	**Collection to Extraction (Days)**	**Collection or Extraction to Analysis (Days)**
Per/Polyfluoroalkyl Substances (PFAS)	EPA 1633	Soil	--	28
Metals	SW-846 6010D	Soil	--	180
		Water	--	180
Metals, STLC	SW-846 6010D STLC	Water	--	180
Mercury	SW-846 7471B	Soil	--	28
	SW-846 7470A	Water	--	28
Mercury, STLC	SW-846 7470A STLC	Water	--	28
Pesticides	SW-846 8081B	Soil	14	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Soil	1 year	40
Herbicides	SW-846 8151A	Soil	14	40

Table 3

Analytical Methods
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

			Holding Time	
Parameter	**Method**	**Matrix**	**Collection to Extraction (Days)**	**Collection or Extraction to Analysis (Days)**
Volatile Organic Compounds (VOCs)	SW-846 8260C	Soil	48 hours	14
		Water	--	14
Semivolatile Organic Compounds (SVOCs)	SW-846 8270D	Soil	14	40
		Water	7	40
1,4-Dioxane	SW-846 8270D SIM	Water	7	40
Cyanide	SW-846 9012B	Soil	--	14
		Water	--	14

Notes:

STLC - Soluble Threshold Limit Concentration
SIM - Selected Ion Monitoring
-- - Not applicable

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
EPA - "Methods for Organic Analysis of Municipal and Industrial Wastewater", 40 CFR, Part 136 Appendix A, October 26, 1984.

Table 4

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Chloroform (Trichloromethane)	12/11/2024	0.323 J	SO-12656942-KP-121024-029	0.20 J	3.1 U	µg/kg
	Chloroform (Trichloromethane)	12/11/2024	0.312 J	SO-12656942-KP-121024-011	0.28 J	4.4 U	µg/kg
Metals	Chromium	12/12/2024	1.84	SO-12656942-KP-121024-026	10	10 U	mg/kg
Metals, STLC	Zinc (dissolved)	12/13/2024	0.00539 J	GW-12656942-KP-121024-001	0.0039 J	0.010 U	mg/L

Notes:

*	- Blank result adjusted for sample factors where applicable
U	- Not detected at the associated reporting limit
J	- Estimated concentration
VOCs	- Volatile Organic Compounds
STLC	- Soluble Threshold Limit Concentration

Table 5

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
Pesticides	SO-12656942-KP-121024-027	(PCB 209) Decachlorobiphenyl	143	45 - 120	Methoxychlor	4.3	J+	µg/kg
SVOCs	GW-12656942-KP-121024-001	2,4,6-Tribromophenol	147	25 - 144	Acetophenone	0.61	J+	µg/L
					Caprolactam	2.8	J+	µg/L
					Diethyl phthalate	0.60	J+	µg/L
					Dimethyl phthalate	4.1	J+	µg/L
					Di-n-butylphthalate (DBP)	0.69	J+	µg/L
					Phenol	1.2	J+	µg/L

Notes:

J+ - Estimated concentration; result may be biased high
SVOCs - Semi-volatile Organic Compounds

Table 6

Qualified Sample Data Due to Outlying Isotope Dilution Recoveries
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
PFAS	SO-12656942-KP-121024-033	2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)ethan-d4-ol (d9-NEtFOSA)	172	20 - 150	N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	0.21	UJ	µg/kg
	SO-12656942-KP-121024-028	N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid (d5-NEtFOSAA)	156	20 - 150	N-Ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA)	0.20	UJ	µg/kg

Notes:

UJ - Not detected; associated reporting limit is estimated
PFAS - Per/Polyfluorinated Alkyl Substances

Table 7

Qualified Sample Results Due to Outlying MS/MSD Results
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result		Units
Metals	SO-12656942-KP-121024-010	Antimony	48	55	14	75 - 125	20	17	UJ	mg/kg
		Iron	82	0	200	75 - 125	20	19000	J-	mg/kg
		Lead	150	107	33	75 - 125	20	73	J+	mg/kg
		Manganese	51	14	114	75 - 125	20	440	J-	mg/kg
		Zinc	146	77	62	75 - 125	20	150	J+	mg/kg
		Mercury	129	96	29	80 - 120	20	0.082	J+	mg/kg
Pesticides	SO-12656942-KP-121024-023	Dieldrin	0	12	200	45 - 120	12	44	J	µg/kg
VOCs	SO-12656942-KP-121024-001	1,1,2,2-Tetrachloroethane	71	79	11	80 - 120	30	3.3	UJ	µg/kg
		2-Butanone (Methyl ethyl ketone) (MEK)	58	63	8	70 - 134	30	17	UJ	µg/kg
General Chemistry	SO-12656942-KP-121024-008	Cyanide (total)	75	--	--	85 - 115	--	1.3	UJ	mg/kg
	SO-12656942-KP-121024-010	Cyanide (total)	0	54	200	85 - 115	15		R	

Notes:

MS	- Matrix Spike
MSD	- Matrix Spike Duplicate
RPD	- Relative Percent Difference
J	- Estimated concentration
J+	- Estimated concentration; result may be biased high
J-	- Estimated concentration; result may be biased low
UJ	- Not detected; associated reporting limit is estimated
R	- Rejected
VOCs	- Volatile Organic Compounds
--	- Not applicable

Table 8

Qualified Sample Data Due to Differences in Dual Column Results
Limited Phase II Environmental Site Assessment
Former Oliver Gear and Modern Heat Treating Properties
Buffalo, New York
December 2024

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	4,4'-DDE	> 40	40	SO-12656942-KP-121024-023	2.3 J	µg/kg
	Endosulfan II	> 40	40	SO-12656942-KP-121024-027	2.0 J	µg/kg

Notes:

RPD - Relative Percent Difference
J - Estimated concentration

Attachment C

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Arcuri
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

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JOB DESCRIPTION

12656942, Jenesis

JOB NUMBER

480-226170-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Eurofins Buffalo

Job Notes

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Authorization

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Authorized for release by
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-226170-1

Receipt
The samples were received on 12/10/2024 5:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.0º C.

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

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: SO-12656942-KP-121024-018 (480-226170-12) and SO-12656942-KP-121024-022 (480-226170-20). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: SO-12656942-KP-121024-003 (480-226170-4). Elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-735222 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following associated sample is impacted: SO-12656942-KP-121024-003 (480-226170-4).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-735222 recovered above the upper control limit for 2,4-Dinitrophenol and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: SO-12656942-KP-121024-003 (480-226170-4).

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

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

Metals
Method 6010D: The linear range check (LRC) standard recovery associated with 480-735122 is outside the acceptance criteria for the following analytes: Silver, Copper, and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

LCMS
Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: SO-12656942-KP-121024-033 (480-226170-10). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1633: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound(s) (flagged). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: SO-12656942-KP-121024-014 (480-226170-9), SO-12656942-KP-121024-033 (480-226170-10), SO-12656942-KP-121024-020 (480-226170-16), SO-12656942-KP-121024-016 (480-226170-19), (CCV 240-638769/16) and (480-226170-A-16-B DU).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Continuing Calibration Blank (CCB) associated with prep batch 240-638644. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The CCB is non- detect for associated target analyte(s), therefore, the associated samples are reported. The following samples are affected:SO-12656942-KP-121024-014 (480-226170-9), SO-12656942-KP-121024-033 (480-226170-10), SO-12656942-KP-121024-020 (480-226170-16), SO-12656942-KP-121024-016 (480-226170-19), (CCB 240-638769/17) and (480-226170-A-16-B DU).

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

General Chemistry

Job ID: 480-226170-1 (Continued)

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

Organic Prep
Method 3550C: The following sample required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SO-12656942-KP-121024-019 (480-226170-15).

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-001 — Lab Sample ID: 480-226170-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.0	J	3.3	1.5	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SO-12656942-KP-121024-002 — Lab Sample ID: 480-226170-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	19000		13	11	mg/Kg	1	☼	6010D	Total/NA
Arsenic	5.2		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	170		0.64	0.18	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.77		0.25	0.051	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J	0.25	0.089	mg/Kg	1	☼	6010D	Total/NA
Calcium	41000		64	34	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		0.64	0.46	mg/Kg	1	☼	6010D	Total/NA
Cobalt	9.5		0.64	0.13	mg/Kg	1	☼	6010D	Total/NA
Copper	25	^5+	1.3	0.72	mg/Kg	1	☼	6010D	Total/NA
Iron	20000		13	11	mg/Kg	1	☼	6010D	Total/NA
Lead	350		1.3	0.58	mg/Kg	1	☼	6010D	Total/NA
Magnesium	14000		25	11	mg/Kg	1	☼	6010D	Total/NA
Manganese	470		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		6.4	0.32	mg/Kg	1	☼	6010D	Total/NA
Potassium	5200		38	31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.59	J ^5-	0.76	0.25	mg/Kg	1	☼	6010D	Total/NA
Sodium	290		180	78	mg/Kg	1	☼	6010D	Total/NA
Vanadium	34		0.64	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	110	^5-	2.5	1.3	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.32		0.026	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-013 — Lab Sample ID: 480-226170-3

No Detections.

Client Sample ID: SO-12656942-KP-121024-003 — Lab Sample ID: 480-226170-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	16	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzene	0.18	J	3.3	0.16	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	0.69	J	3.3	0.50	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.4	J	3.3	1.5	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.91	J	3.3	0.44	ug/Kg	1	☼	8260C	Total/NA
Toluene	0.80	J	3.3	0.25	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	51	J	200	40	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	66	J	200	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	310		200	26	ug/Kg	1	☼	8270D	Total/NA
Anthracene	580		200	49	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2300		200	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1800		200	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2700		200	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300		200	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1000		200	26	ug/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	130	J	200	68	ug/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	52	J	200	33	ug/Kg	1	☼	8270D	Total/NA
Carbazole	490		200	23	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2500		200	44	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	460		200	35	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-003 (Continued) — Lab Sample ID: 480-226170-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	77	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	4600	E	200	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	140	J	200	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1200		200	24	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	37	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	2400		200	29	ug/Kg	1	☼	8270D	Total/NA
Pyrene	3200	E	200	23	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene - DL	260	J	990	130	ug/Kg	5	☼	8270D	Total/NA
Anthracene - DL	500	J	990	240	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene - DL	2200		990	99	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1800		990	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2700		990	160	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	1100		990	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1200		990	130	ug/Kg	5	☼	8270D	Total/NA
Carbazole - DL	440	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene - DL	2400		990	220	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	440	J	990	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	4800		990	100	ug/Kg	5	☼	8270D	Total/NA
Fluorene - DL	130	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	940	J	990	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene - DL	2500		990	150	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	3300		990	120	ug/Kg	5	☼	8270D	Total/NA

Client Sample ID: SO-12656942-KP-121024-004 — Lab Sample ID: 480-226170-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	17000		13	11	mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.8		2.6	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	160		0.64	0.18	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.62		0.26	0.051	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.23	J	0.26	0.089	mg/Kg	1	☼	6010D	Total/NA
Calcium	58000		64	34	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		0.64	0.46	mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.0		0.64	0.13	mg/Kg	1	☼	6010D	Total/NA
Copper	43	^5+	1.3	0.73	mg/Kg	1	☼	6010D	Total/NA
Iron	18000		13	11	mg/Kg	1	☼	6010D	Total/NA
Lead	460		1.3	0.59	mg/Kg	1	☼	6010D	Total/NA
Magnesium	32000		26	11	mg/Kg	1	☼	6010D	Total/NA
Manganese	550		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		6.4	0.32	mg/Kg	1	☼	6010D	Total/NA
Potassium	4200		38	31	mg/Kg	1	☼	6010D	Total/NA
Sodium	200		180	78	mg/Kg	1	☼	6010D	Total/NA
Vanadium	30		0.64	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	100	^5-	2.6	1.3	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.64		0.028	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-005 — Lab Sample ID: 480-226170-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9	J	16	2.8	ug/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	19	J	190	19	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	44	J	190	20	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-005 (Continued) — Lab Sample ID: 480-226170-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	34	J	190	23	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SO-12656942-KP-121024-029 — Lab Sample ID: 480-226170-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	15	2.6	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.20	J B	3.1	0.19	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.6	J	3.1	1.4	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SO-12656942-KP-121024-030 — Lab Sample ID: 480-226170-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	87	J	200	69	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	37	J	200	21	ug/Kg	1	☼	8270D	Total/NA
Pyrene	32	J	200	24	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SO-12656942-KP-121024-014 — Lab Sample ID: 480-226170-9

No Detections.

Client Sample ID: SO-12656942-KP-121024-033 — Lab Sample ID: 480-226170-10

No Detections.

Client Sample ID: SO-12656942-KP-121024-017 — Lab Sample ID: 480-226170-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	6.7	J	21	1.5	ug/Kg	1	☼	8260C	Total/NA
Benzene	1.1	J	4.2	0.21	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	1.5	J	4.2	0.29	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	4.8		4.2	1.9	ug/Kg	1	☼	8260C	Total/NA
n-Butylbenzene	0.43	J	4.2	0.37	ug/Kg	1	☼	8260C	Total/NA
N-Propylbenzene	1.1	J	4.2	0.34	ug/Kg	1	☼	8260C	Total/NA
Toluene	2.2	J	4.2	0.32	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.6	J	8.4	0.71	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SO-12656942-KP-121024-018 — Lab Sample ID: 480-226170-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	810	J	960	96	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	1300		960	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1700		960	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1100		960	100	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	710	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1000		960	220	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	360	J	960	170	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	760	J	960	100	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	920	J	960	120	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	170	J	960	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	760	J	960	110	ug/Kg	5	☼	8270D	Total/NA
Aluminum	7700		11	9.5	mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.1		2.2	0.97	mg/Kg	1	☼	6010D	Total/NA
Barium	63		0.55	0.15	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.58		0.22	0.044	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-018 (Continued) — Lab Sample ID: 480-226170-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.18	J	0.22	0.077	mg/Kg	1	☼	6010D	Total/NA
Calcium	42000		55	30	mg/Kg	1	☼	6010D	Total/NA
Chromium	21		0.55	0.39	mg/Kg	1	☼	6010D	Total/NA
Cobalt	4.9		0.55	0.11	mg/Kg	1	☼	6010D	Total/NA
Copper	60	^5+	1.1	0.63	mg/Kg	1	☼	6010D	Total/NA
Iron	60000		11	9.3	mg/Kg	1	☼	6010D	Total/NA
Lead	130		1.1	0.50	mg/Kg	1	☼	6010D	Total/NA
Magnesium	13000		22	9.3	mg/Kg	1	☼	6010D	Total/NA
Manganese	650		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Nickel	30		5.5	0.27	mg/Kg	1	☼	6010D	Total/NA
Potassium	1100		33	27	mg/Kg	1	☼	6010D	Total/NA
Sodium	210		150	67	mg/Kg	1	☼	6010D	Total/NA
Vanadium	22		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	62	^5-	2.2	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.062		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-006 — Lab Sample ID: 480-226170-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15000		12	11	mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.8		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	82		0.61	0.17	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.61		0.24	0.049	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.34		0.24	0.086	mg/Kg	1	☼	6010D	Total/NA
Calcium	26000		61	33	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		0.61	0.44	mg/Kg	1	☼	6010D	Total/NA
Cobalt	10		0.61	0.12	mg/Kg	1	☼	6010D	Total/NA
Copper	20	^5+	1.2	0.70	mg/Kg	1	☼	6010D	Total/NA
Iron	19000		12	10	mg/Kg	1	☼	6010D	Total/NA
Lead	16		1.2	0.56	mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000		24	10	mg/Kg	1	☼	6010D	Total/NA
Manganese	760		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Nickel	22		6.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Potassium	3900		37	30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.45	J ^5-	0.73	0.24	mg/Kg	1	☼	6010D	Total/NA
Sodium	340		170	75	mg/Kg	1	☼	6010D	Total/NA
Vanadium	30		0.61	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	69	^5-	2.4	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019	J	0.025	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-031 — Lab Sample ID: 480-226170-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	16000		12	10	mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.2		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	73		0.60	0.17	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.64		0.24	0.048	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.20	J	0.24	0.084	mg/Kg	1	☼	6010D	Total/NA
Calcium	37000		60	32	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		0.60	0.43	mg/Kg	1	☼	6010D	Total/NA
Cobalt	7.8		0.60	0.12	mg/Kg	1	☼	6010D	Total/NA
Copper	19	^5+	1.2	0.68	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-031 (Continued) — Lab Sample ID: 480-226170-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	18000		12	10	mg/Kg	1	☼	6010D	Total/NA
Lead	16		1.2	0.55	mg/Kg	1	☼	6010D	Total/NA
Magnesium	23000		24	10	mg/Kg	1	☼	6010D	Total/NA
Manganese	440		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		6.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Potassium	4300		36	29	mg/Kg	1	☼	6010D	Total/NA
Silver	0.41	J ^5-	0.72	0.24	mg/Kg	1	☼	6010D	Total/NA
Sodium	320		170	73	mg/Kg	1	☼	6010D	Total/NA
Vanadium	31		0.60	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	71	^5-	2.4	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.033		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-019 — Lab Sample ID: 480-226170-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Endrin	0.51	J	1.9	0.37	ug/Kg	1	☼	8081B	Total/NA

Client Sample ID: SO-12656942-KP-121024-020 — Lab Sample ID: 480-226170-16

No Detections.

Client Sample ID: SO-12656942-KP-121024-015 — Lab Sample ID: 480-226170-17

No Detections.

Client Sample ID: SO-12656942-KP-121024-032 — Lab Sample ID: 480-226170-18

No Detections.

Client Sample ID: SO-12656942-KP-121024-016 — Lab Sample ID: 480-226170-19

No Detections.

Client Sample ID: SO-12656942-KP-121024-022 — Lab Sample ID: 480-226170-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	270	J	920	140	ug/Kg	5	☼	8270D	Total/NA
Anthracene	1100		920	230	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	2300		920	92	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	2100		920	140	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	2400		920	150	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1300		920	97	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	1200		920	120	ug/Kg	5	☼	8270D	Total/NA
Carbazole	410	J	920	110	ug/Kg	5	☼	8270D	Total/NA
Chrysene	2300		920	210	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	410	J	920	160	ug/Kg	5	☼	8270D	Total/NA
Dibenzofuran	190	J	920	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	4900		920	97	ug/Kg	5	☼	8270D	Total/NA
Fluorene	340	J	920	110	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1100		920	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	3900		920	140	ug/Kg	5	☼	8270D	Total/NA
Pyrene	4000		920	110	ug/Kg	5	☼	8270D	Total/NA
Aluminum	13000		11	9.8	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.9		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Barium	110		0.57	0.16	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-022 (Continued) — Lab Sample ID: 480-226170-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.66		0.23	0.046	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.69		0.23	0.080	mg/Kg	1	☼	6010D	Total/NA
Calcium	37000		57	31	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		0.57	0.41	mg/Kg	1	☼	6010D	Total/NA
Cobalt	5.9		0.57	0.11	mg/Kg	1	☼	6010D	Total/NA
Copper	56	^5+	1.1	0.65	mg/Kg	1	☼	6010D	Total/NA
Iron	25000		11	9.7	mg/Kg	1	☼	6010D	Total/NA
Lead	110		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Magnesium	6800		23	9.7	mg/Kg	1	☼	6010D	Total/NA
Manganese	770		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		5.7	0.29	mg/Kg	1	☼	6010D	Total/NA
Potassium	2400		34	28	mg/Kg	1	☼	6010D	Total/NA
Sodium	1300		160	70	mg/Kg	1	☼	6010D	Total/NA
Thallium	0.88	J	6.9	0.87	mg/Kg	1	☼	6010D	Total/NA
Vanadium	23		0.57	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	130	^5-	2.3	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.093		0.021	0.0049	mg/Kg	1	☼	7471B	Total/NA
Cyanide, Total	0.75	J	1.1	0.52	mg/Kg	1	☼	9012B	Total/NA

Client Sample ID: SO-12656942-KP-121024-021 — Lab Sample ID: 480-226170-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	44		20	3.3	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SO-12656942-KP-121024-007 — Lab Sample ID: 480-226170-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	27		19	1.4	ug/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	0.30	J	3.7	0.30	ug/Kg	1	☼	8260C	Total/NA
Acetone	140		19	3.2	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.9	J	3.7	1.7	ug/Kg	1	☼	8260C	Total/NA
Acenaphthylene	54	J	220	29	ug/Kg	1	☼	8270D	Total/NA
Anthracene	120	J	220	55	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	540		220	22	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	310		220	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	430		220	35	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180	J	220	24	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	240		220	29	ug/Kg	1	☼	8270D	Total/NA
Carbazole	82	J	220	26	ug/Kg	1	☼	8270D	Total/NA
Chrysene	500		220	50	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	47	J	220	39	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1300		220	24	ug/Kg	1	☼	8270D	Total/NA
Fluorene	30	J	220	26	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	150	J	220	28	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	40	J	220	29	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	410		220	33	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1000		220	26	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SO-12656942-KP-121024-008 — Lab Sample ID: 480-226170-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	19000		13	11	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-008 (Continued)

Lab Sample ID: 480-226170-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		2.6	1.2	mg/Kg	1	☼	6010D	Total/NA
Barium	120		0.66	0.19	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.81		0.26	0.053	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.74		0.26	0.093	mg/Kg	1	☼	6010D	Total/NA
Calcium	24000		66	36	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		0.66	0.48	mg/Kg	1	☼	6010D	Total/NA
Cobalt	12		0.66	0.13	mg/Kg	1	☼	6010D	Total/NA
Copper	46	^5+	1.3	0.76	mg/Kg	1	☼	6010D	Total/NA
Iron	31000		13	11	mg/Kg	1	☼	6010D	Total/NA
Lead	150		1.3	0.61	mg/Kg	1	☼	6010D	Total/NA
Magnesium	12000		26	11	mg/Kg	1	☼	6010D	Total/NA
Manganese	2400		1.3	0.37	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		6.6	0.33	mg/Kg	1	☼	6010D	Total/NA
Potassium	3900		40	32	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.7	J	5.3	1.1	mg/Kg	1	☼	6010D	Total/NA
Silver	0.50	J ^5-	0.79	0.26	mg/Kg	1	☼	6010D	Total/NA
Sodium	1600		190	81	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.0	J	7.9	1.0	mg/Kg	1	☼	6010D	Total/NA
Vanadium	37		0.66	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	200	^5-	2.6	1.4	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.17		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-001
Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-1
Matrix: Solid
Percent Solids: 87.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	3.3	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,1,2,2-Tetrachloroethane	0.54	U F1	3.3	0.54	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	U	3.3	0.76	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,1,2-Trichloroethane	0.43	U F1	3.3	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,1-Dichloroethane	0.41	U	3.3	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,1-Dichloroethene	0.41	U	3.3	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2,4-Trichlorobenzene	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2,4-Trimethylbenzene	0.64	U	3.3	0.64	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2-Dibromo-3-Chloropropane	1.7	U F1	3.3	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2-Dichlorobenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2-Dichloroethane	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2-Dichloropropane	1.7	U	3.3	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,3,5-Trimethylbenzene	0.21	U	3.3	0.21	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,3-Dichlorobenzene	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,4-Dichlorobenzene	0.47	U	3.3	0.47	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
2-Butanone (MEK)	1.2	U F1	17	1.2	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
2-Hexanone	1.7	U	17	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
4-Isopropyltoluene	0.27	U	3.3	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
4-Methyl-2-pentanone (MIBK)	1.1	U F1	17	1.1	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Acetone	2.8	U F1	17	2.8	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Benzene	0.16	U	3.3	0.16	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Bromoform	1.7	U	3.3	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Bromomethane	0.30	U	3.3	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Carbon disulfide	1.7	U	3.3	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Carbon tetrachloride	0.32	U	3.3	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Chlorobenzene	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Dibromochloromethane	0.43	U	3.3	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Chloroethane	0.75	U	3.3	0.75	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Chloroform	0.21	U	3.3	0.21	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Chloromethane	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
cis-1,2-Dichloroethene	0.43	U	3.3	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Cyclohexane	0.47	U	3.3	0.47	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Bromodichloromethane	0.45	U	3.3	0.45	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Dichlorodifluoromethane	0.27	U	3.3	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Ethylbenzene	0.23	U	3.3	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
1,2-Dibromoethane	0.43	U F1	3.3	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Isopropylbenzene	0.50	U	3.3	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Methyl acetate	2.0	U	17	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Methyl tert-butyl ether	0.33	U	3.3	0.33	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Methylcyclohexane	0.51	U	3.3	0.51	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Methylene Chloride	**2.0**	**J**	3.3	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Naphthalene	0.45	U	3.3	0.45	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
n-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
N-Propylbenzene	0.27	U	3.3	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
sec-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Tetrachloroethene	0.45	U	3.3	0.45	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Toluene	0.25	U	3.3	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
trans-1,2-Dichloroethene	0.34	U	3.3	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
trans-1,3-Dichloropropene	1.5	U	3.3	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1

Client Sample ID: SO-12656942-KP-121024-001
Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-1
Matrix: Solid
Percent Solids: 87.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.73	U	3.3	0.73	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Trichlorofluoromethane	0.31	U	3.3	0.31	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Vinyl chloride	0.41	U	3.3	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Xylenes, Total	0.56	U	6.7	0.56	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
cis-1,3-Dichloropropene	0.48	U	3.3	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
Styrene	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1
tert-Butylbenzene	0.35	U	3.3	0.35	ug/Kg	☼	12/11/24 10:00	12/11/24 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*12/11/24 10:00*	*12/11/24 21:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*12/11/24 10:00*	*12/11/24 21:15*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*12/11/24 10:00*	*12/11/24 21:15*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*12/11/24 10:00*	*12/11/24 21:15*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
bis (2-chloroisopropyl) ether	38	U	190	38	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4,5-Trichlorophenol	52	U	190	52	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4,6-Trichlorophenol	38	U	190	38	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4-Dichlorophenol	20	U	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4-Dimethylphenol	46	U	190	46	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4-Dinitrophenol	890	U	1900	890	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,4-Dinitrotoluene	40	U	190	40	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2,6-Dinitrotoluene	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Chloronaphthalene	32	U	190	32	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
1,4-Dioxane	62	U	110	62	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Chlorophenol	35	U	370	35	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Methylphenol	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Methylnaphthalene	38	U	190	38	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Nitroaniline	28	U	370	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
2-Nitrophenol	54	U	190	54	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
3,3'-Dichlorobenzidine	230	U	370	230	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
3-Nitroaniline	53	U	370	53	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4,6-Dinitro-2-methylphenol	190	U	370	190	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Bromophenyl phenyl ether	27	U	190	27	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Chloro-3-methylphenol	47	U	190	47	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Chloroaniline	47	U	190	47	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Chlorophenyl phenyl ether	24	U	190	24	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Methylphenol	23	U	370	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Nitroaniline	100	U	370	100	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
4-Nitrophenol	130	U	370	130	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Acenaphthene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Acenaphthylene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Acetophenone	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Anthracene	47	U	190	47	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Atrazine	67	U	190	67	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Benzaldehyde	150	U	190	150	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Benzo[a]anthracene	19	U	190	19	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Benzo[a]pyrene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1

Client Sample ID: SO-12656942-KP-121024-001

Lab Sample ID: 480-226170-1

Date Collected: 12/10/24 11:10
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 87.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	31	U	190	31	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Benzo[g,h,i]perylene	20	U	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Benzo[k]fluoranthene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Bis(2-chloroethoxy)methane	41	U	190	41	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Bis(2-chloroethyl)ether	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Bis(2-ethylhexyl) phthalate	66	U	190	66	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Butyl benzyl phthalate	32	U	190	32	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Caprolactam	58	U	190	58	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Carbazole	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Chrysene	43	U	190	43	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Dibenz(a,h)anthracene	34	U	190	34	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Di-n-butyl phthalate	33	U	190	33	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Di-n-octyl phthalate	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Dibenzofuran	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Diethyl phthalate	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Dimethyl phthalate	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Fluoranthene	20	U	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Fluorene	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Hexachlorobenzene	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Hexachlorobutadiene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Hexachlorocyclopentadiene	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Hexachloroethane	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Indeno[1,2,3-cd]pyrene	24	U	190	24	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Isophorone	41	U	190	41	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
N-Nitrosodi-n-propylamine	33	U	190	33	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
N-Nitrosodiphenylamine	160	U	190	160	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Naphthalene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Nitrobenzene	21	U	190	21	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Pentachlorophenol	190	U	370	190	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Phenanthrene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Phenol	29	U	190	29	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1
Pyrene	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*40 - 121*	*12/11/24 13:49*	*12/12/24 14:09*	*1*
Phenol-d5 (Surr)	*85*		*41 - 120*	*12/11/24 13:49*	*12/12/24 14:09*	*1*
p-Terphenyl-d14 (Surr)	*93*		*46 - 143*	*12/11/24 13:49*	*12/12/24 14:09*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*26 - 143*	*12/11/24 13:49*	*12/12/24 14:09*	*1*
2-Fluorobiphenyl (Surr)	*87*		*50 - 121*	*12/11/24 13:49*	*12/12/24 14:09*	*1*
2-Fluorophenol (Surr)	*81*		*36 - 120*	*12/11/24 13:49*	*12/12/24 14:09*	*1*

Client Sample ID: SO-12656942-KP-121024-002

Lab Sample ID: 480-226170-2

Date Collected: 12/10/24 11:10
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 81.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Antimony	0.67	U	19	0.67	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Arsenic	**5.2**		2.5	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1

Client Sample ID: SO-12656942-KP-121024-002

Lab Sample ID: 480-226170-2

Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 81.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	170		0.64	0.18	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Beryllium	0.77		0.25	0.051	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Cadmium	0.19	J	0.25	0.089	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Calcium	41000		64	34	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Chromium	22		0.64	0.46	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Cobalt	9.5		0.64	0.13	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Copper	25	^5+	1.3	0.72	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Iron	20000		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Lead	350		1.3	0.58	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Magnesium	14000		25	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Manganese	470		1.3	0.36	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Nickel	20		6.4	0.32	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Potassium	5200		38	31	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Selenium	1.0	U	5.1	1.0	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Silver	0.59	J ^5-	0.76	0.25	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Sodium	290		180	78	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Thallium	0.97	U	7.6	0.97	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Vanadium	34		0.64	0.17	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1
Zinc	110	^5-	2.5	1.3	mg/Kg	☼	12/11/24 15:07	12/12/24 12:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32		0.026	0.0059	mg/Kg	☼	12/13/24 09:11	12/13/24 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.58	U	1.2	0.58	mg/Kg	☼	12/11/24 11:55	12/11/24 17:35	1

Client Sample ID: SO-12656942-KP-121024-013

Lab Sample ID: 480-226170-3

Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 79.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.40	U	2.1	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
4,4'-DDE	0.43	U	2.1	0.43	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
4,4'-DDT	0.48	U	2.1	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Aldrin	0.51	U	2.1	0.51	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
alpha-BHC	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
cis-Chlordane	1.0	U	2.1	1.0	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
beta-BHC	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
delta-BHC	0.39	U	2.1	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Dieldrin	0.50	U	2.1	0.50	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endosulfan I	0.40	U	2.1	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endosulfan II	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endosulfan sulfate	0.39	U	2.1	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endrin	0.41	U	2.1	0.41	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endrin aldehyde	0.53	U	2.1	0.53	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Endrin ketone	0.51	U	2.1	0.51	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
gamma-BHC (Lindane)	0.38	U	2.1	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1

Client Sample ID: SO-12656942-KP-121024-013

Lab Sample ID: 480-226170-3

Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 79.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	0.66	U	2.1	0.66	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Heptachlor	0.45	U	2.1	0.45	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Heptachlor epoxide	0.53	U	2.1	0.53	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Methoxychlor	0.42	U	2.1	0.42	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1
Toxaphene	12	U	21	12	ug/Kg	☼	12/12/24 07:25	12/16/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 12:29*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 12:29*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*12/12/24 07:25*	*12/16/24 12:29*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*12/12/24 07:25*	*12/16/24 12:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.043	U	0.22	0.043	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1221	0.043	U	0.22	0.043	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1232	0.043	U	0.22	0.043	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1242	0.043	U	0.22	0.043	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1248	0.043	U	0.22	0.043	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1254	0.10	U	0.22	0.10	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1
PCB-1260	0.10	U	0.22	0.10	mg/Kg	☼	12/12/24 07:32	12/12/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*60 - 154*	*12/12/24 07:32*	*12/12/24 17:25*	*1*
Tetrachloro-m-xylene	*82*		*60 - 154*	*12/12/24 07:32*	*12/12/24 17:25*	*1*
DCB Decachlorobiphenyl	*80*		*65 - 174*	*12/12/24 07:32*	*12/12/24 17:25*	*1*
DCB Decachlorobiphenyl	*87*		*65 - 174*	*12/12/24 07:32*	*12/12/24 17:25*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	7.4	U	21	7.4	ug/Kg	☼	12/11/24 12:11	12/13/24 14:02	1
2,4-D	13	U	21	13	ug/Kg	☼	12/11/24 12:11	12/13/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:02*	*1*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:02*	*1*

Client Sample ID: SO-12656942-KP-121024-003

Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 85.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	3.3	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,1,2,2-Tetrachloroethane	0.53	U	3.3	0.53	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.74	U	3.3	0.74	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,1,2-Trichloroethane	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,1-Dichloroethane	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,1-Dichloroethene	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2,4-Trichlorobenzene	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2,4-Trimethylbenzene	0.63	U	3.3	0.63	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-003
Date Collected: 12/10/24 10:30
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-4
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2-Dichlorobenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2-Dichloroethane	0.16	U	3.3	0.16	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2-Dichloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,3,5-Trimethylbenzene	0.21	U	3.3	0.21	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,3-Dichlorobenzene	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,4-Dichlorobenzene	0.46	U	3.3	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
2-Butanone (MEK)	1.2	U	16	1.2	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
2-Hexanone	1.6	U	16	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
4-Isopropyltoluene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
4-Methyl-2-pentanone (MIBK)	1.1	U	16	1.1	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Acetone	**12**	**J**	16	2.8	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Benzene	**0.18**	**J**	3.3	0.16	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Bromoform	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Bromomethane	0.29	U	3.3	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Carbon disulfide	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Carbon tetrachloride	0.32	U	3.3	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Chlorobenzene	0.43	U	3.3	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Dibromochloromethane	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Chloroethane	0.74	U	3.3	0.74	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Chloroform	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Chloromethane	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
cis-1,2-Dichloroethene	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Cyclohexane	0.46	U	3.3	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Bromodichloromethane	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Dichlorodifluoromethane	0.27	U	3.3	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Ethylbenzene	0.23	U	3.3	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
1,2-Dibromoethane	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Isopropylbenzene	0.49	U	3.3	0.49	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Methyl acetate	2.0	U	16	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Methyl tert-butyl ether	0.32	U	3.3	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Methylcyclohexane	**0.69**	**J**	3.3	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Methylene Chloride	**2.4**	**J**	3.3	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Naphthalene	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
n-Butylbenzene	0.28	U	3.3	0.28	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
N-Propylbenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
sec-Butylbenzene	0.28	U	3.3	0.28	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Tetrachloroethene	**0.91**	**J**	3.3	0.44	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Toluene	**0.80**	**J**	3.3	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
trans-1,2-Dichloroethene	0.34	U	3.3	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
trans-1,3-Dichloropropene	1.4	U	3.3	1.4	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Trichloroethene	0.72	U	3.3	0.72	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Trichlorofluoromethane	0.31	U	3.3	0.31	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Vinyl chloride	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Xylenes, Total	0.55	U	6.5	0.55	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
cis-1,3-Dichloropropene	0.47	U	3.3	0.47	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
Styrene	0.16	U	3.3	0.16	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1
tert-Butylbenzene	0.34	U	3.3	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 21:41	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-003

Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 85.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*12/11/24 10:00*	*12/11/24 21:41*	*1*
4-Bromofluorobenzene (Surr)	*85*		*72 - 126*	*12/11/24 10:00*	*12/11/24 21:41*	*1*
Toluene-d8 (Surr)	*113*		*71 - 125*	*12/11/24 10:00*	*12/11/24 21:41*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*12/11/24 10:00*	*12/11/24 21:41*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	29	U	200	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
bis (2-chloroisopropyl) ether	40	U	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4,5-Trichlorophenol	54	U	200	54	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4,6-Trichlorophenol	40	U	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4-Dichlorophenol	21	U	200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4-Dimethylphenol	48	U	200	48	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4-Dinitrophenol	910	U	1900	910	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,4-Dinitrotoluene	41	U	200	41	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2,6-Dinitrotoluene	23	U	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Chloronaphthalene	33	U	200	33	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
1,4-Dioxane	64	U	120	64	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Chlorophenol	36	U	380	36	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Methylphenol	23	U	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Methylnaphthalene	**51**	**J**	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Nitroaniline	29	U	380	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
2-Nitrophenol	56	U	200	56	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
3,3'-Dichlorobenzidine	230	U	380	230	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
3-Nitroaniline	55	U	380	55	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4,6-Dinitro-2-methylphenol	200	U	380	200	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Bromophenyl phenyl ether	28	U	200	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Chloro-3-methylphenol	49	U	200	49	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Chloroaniline	49	U	200	49	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Chlorophenyl phenyl ether	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Methylphenol	23	U	380	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Nitroaniline	100	U	380	100	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
4-Nitrophenol	140	U	380	140	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Acenaphthene	**66**	**J**	200	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Acenaphthylene	**310**		200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Acetophenone	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Anthracene	**580**		200	49	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Atrazine	69	U	200	69	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzaldehyde	160	U	200	160	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzo[a]anthracene	**2300**		200	20	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzo[a]pyrene	**1800**		200	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzo[b]fluoranthene	**2700**		200	31	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzo[g,h,i]perylene	**1300**		200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Benzo[k]fluoranthene	**1000**		200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Bis(2-chloroethoxy)methane	42	U	200	42	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Bis(2-chloroethyl)ether	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Bis(2-ethylhexyl) phthalate	**130**	**J**	200	68	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Butyl benzyl phthalate	**52**	**J**	200	33	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Caprolactam	59	U	200	59	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Carbazole	**490**		200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1

Client Sample ID: SO-12656942-KP-121024-003

Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	**2500**		200	44	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Dibenz(a,h)anthracene	**460**		200	35	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Di-n-butyl phthalate	34	U	200	34	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Di-n-octyl phthalate	23	U	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Dibenzofuran	**77**	**J**	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Diethyl phthalate	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Dimethyl phthalate	23	U	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Fluoranthene	**4600**	**E**	200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Fluorene	**140**	**J**	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Hexachlorobenzene	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Hexachlorobutadiene	29	U	200	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Hexachlorocyclopentadiene	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Hexachloroethane	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Indeno[1,2,3-cd]pyrene	**1200**		200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Isophorone	42	U	200	42	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
N-Nitrosodi-n-propylamine	34	U	200	34	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
N-Nitrosodiphenylamine	160	U	200	160	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Naphthalene	**37**	**J**	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Nitrobenzene	22	U	200	22	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Pentachlorophenol	200	U	380	200	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Phenanthrene	**2400**		200	29	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Phenol	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1
Pyrene	**3200**	**E**	200	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*40 - 121*	*12/11/24 13:49*	*12/12/24 16:12*	*1*
Phenol-d5 (Surr)	*80*		*41 - 120*	*12/11/24 13:49*	*12/12/24 16:12*	*1*
p-Terphenyl-d14 (Surr)	*87*		*46 - 143*	*12/11/24 13:49*	*12/12/24 16:12*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*26 - 143*	*12/11/24 13:49*	*12/12/24 16:12*	*1*
2-Fluorobiphenyl (Surr)	*85*		*50 - 121*	*12/11/24 13:49*	*12/12/24 16:12*	*1*
2-Fluorophenol (Surr)	*78*		*36 - 120*	*12/11/24 13:49*	*12/12/24 16:12*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	150	U	990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
bis (2-chloroisopropyl) ether	200	U	990	200	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4,5-Trichlorophenol	270	U	990	270	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4,6-Trichlorophenol	200	U	990	200	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4-Dichlorophenol	100	U	990	100	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4-Dimethylphenol	240	U	990	240	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4-Dinitrophenol	4600	U	9700	4600	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,4-Dinitrotoluene	200	U	990	200	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2,6-Dinitrotoluene	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Chloronaphthalene	160	U	990	160	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
1,4-Dioxane	320	U	580	320	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Chlorophenol	180	U	1900	180	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Methylphenol	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Methylnaphthalene	200	U	990	200	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Nitroaniline	150	U	1900	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
2-Nitrophenol	280	U	990	280	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5

Client Sample ID: SO-12656942-KP-121024-003

Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	1200	U	1900	1200	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
3-Nitroaniline	270	U	1900	270	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4,6-Dinitro-2-methylphenol	990	U	1900	990	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Bromophenyl phenyl ether	140	U	990	140	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Chloro-3-methylphenol	240	U	990	240	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Chloroaniline	240	U	990	240	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Chlorophenyl phenyl ether	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Methylphenol	120	U	1900	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Nitroaniline	520	U	1900	520	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
4-Nitrophenol	690	U	1900	690	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Acenaphthene	150	U	990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Acenaphthylene	**260**	**J**	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Acetophenone	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Anthracene	**500**	**J**	990	240	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Atrazine	340	U	990	340	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzaldehyde	790	U	990	790	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzo[a]anthracene	**2200**		990	99	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzo[a]pyrene	**1800**		990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzo[b]fluoranthene	**2700**		990	160	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzo[g,h,i]perylene	**1100**		990	100	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Benzo[k]fluoranthene	**1200**		990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Bis(2-chloroethoxy)methane	210	U	990	210	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Bis(2-chloroethyl)ether	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Bis(2-ethylhexyl) phthalate	340	U	990	340	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Butyl benzyl phthalate	160	U	990	160	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Caprolactam	300	U	990	300	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Carbazole	**440**	**J**	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Chrysene	**2400**		990	220	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Dibenz(a,h)anthracene	**440**	**J**	990	170	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Di-n-butyl phthalate	170	U	990	170	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Di-n-octyl phthalate	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Dibenzofuran	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Diethyl phthalate	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Dimethyl phthalate	120	U	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Fluoranthene	**4800**		990	100	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Fluorene	**130**	**J**	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Hexachlorobenzene	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Hexachlorobutadiene	150	U	990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Hexachlorocyclopentadiene	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Hexachloroethane	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Indeno[1,2,3-cd]pyrene	**940**	**J**	990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Isophorone	210	U	990	210	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
N-Nitrosodi-n-propylamine	170	U	990	170	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
N-Nitrosodiphenylamine	800	U	990	800	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Naphthalene	130	U	990	130	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Nitrobenzene	110	U	990	110	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Pentachlorophenol	990	U	1900	990	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Phenanthrene	**2500**		990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5
Phenol	150	U	990	150	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5

Client Sample ID: SO-12656942-KP-121024-003

Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 85.3

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	3300		990	120	ug/Kg	☼	12/11/24 13:49	12/13/24 12:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*40 - 121*	*12/11/24 13:49*	*12/13/24 12:17*	*5*
Phenol-d5 (Surr)	*79*		*41 - 120*	*12/11/24 13:49*	*12/13/24 12:17*	*5*
p-Terphenyl-d14 (Surr)	*90*		*46 - 143*	*12/11/24 13:49*	*12/13/24 12:17*	*5*
2,4,6-Tribromophenol (Surr)	*60*		*26 - 143*	*12/11/24 13:49*	*12/13/24 12:17*	*5*
2-Fluorobiphenyl (Surr)	*83*		*50 - 121*	*12/11/24 13:49*	*12/13/24 12:17*	*5*
2-Fluorophenol (Surr)	*74*		*36 - 120*	*12/11/24 13:49*	*12/13/24 12:17*	*5*

Client Sample ID: SO-12656942-KP-121024-004

Lab Sample ID: 480-226170-5

Date Collected: 12/10/24 10:00
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 76.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17000		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Antimony	0.68	U	19	0.68	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Arsenic	9.8		2.6	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Barium	160		0.64	0.18	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Beryllium	0.62		0.26	0.051	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Cadmium	0.23	J	0.26	0.089	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Calcium	58000		64	34	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Chromium	19		0.64	0.46	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Cobalt	8.0		0.64	0.13	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Copper	43	^5+	1.3	0.73	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Iron	18000		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Lead	460		1.3	0.59	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Magnesium	32000		26	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Manganese	550		1.3	0.36	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Nickel	16		6.4	0.32	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Potassium	4200		38	31	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Selenium	1.0	U	5.1	1.0	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Silver	0.26	U ^5-	0.77	0.26	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Sodium	200		180	78	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Thallium	0.97	U	7.7	0.97	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Vanadium	30		0.64	0.17	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1
Zinc	100	^5-	2.6	1.3	mg/Kg	☼	12/11/24 15:07	12/12/24 12:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64		0.028	0.0064	mg/Kg	☼	12/13/24 09:11	12/13/24 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.62	U	1.3	0.62	mg/Kg	☼	12/11/24 11:55	12/11/24 17:35	1

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-005
Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-6
Matrix: Solid
Percent Solids: 87.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	3.3	0.24	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,1,2,2-Tetrachloroethane	0.53	U	3.3	0.53	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.75	U	3.3	0.75	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,1,2-Trichloroethane	0.43	U	3.3	0.43	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,1-Dichloroethane	0.40	U	3.3	0.40	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,1-Dichloroethene	0.40	U	3.3	0.40	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2,4-Trichlorobenzene	0.20	U	3.3	0.20	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2,4-Trimethylbenzene	0.63	U	3.3	0.63	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2-Dibromo-3-Chloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2-Dichlorobenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2-Dichloroethane	0.16	U	3.3	0.16	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2-Dichloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,3,5-Trimethylbenzene	0.21	U	3.3	0.21	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,3-Dichlorobenzene	0.17	U	3.3	0.17	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,4-Dichlorobenzene	0.46	U	3.3	0.46	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
2-Butanone (MEK)	1.2	U	16	1.2	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
2-Hexanone	1.6	U	16	1.6	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
4-Isopropyltoluene	0.26	U	3.3	0.26	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
4-Methyl-2-pentanone (MIBK)	1.1	U	16	1.1	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Acetone	**2.9**	**J**	16	2.8	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Benzene	0.16	U	3.3	0.16	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Bromoform	1.6	U	3.3	1.6	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Bromomethane	0.30	U	3.3	0.30	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Carbon disulfide	1.6	U	3.3	1.6	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Carbon tetrachloride	0.32	U	3.3	0.32	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Chlorobenzene	0.43	U	3.3	0.43	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Dibromochloromethane	0.42	U	3.3	0.42	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Chloroethane	0.74	U	3.3	0.74	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Chloroform	0.20	U	3.3	0.20	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Chloromethane	0.20	U	3.3	0.20	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
cis-1,2-Dichloroethene	0.42	U	3.3	0.42	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Cyclohexane	0.46	U	3.3	0.46	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Bromodichloromethane	0.44	U	3.3	0.44	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Dichlorodifluoromethane	0.27	U	3.3	0.27	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Ethylbenzene	0.23	U	3.3	0.23	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
1,2-Dibromoethane	0.42	U	3.3	0.42	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Isopropylbenzene	0.49	U	3.3	0.49	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Methyl acetate	2.0	U	16	2.0	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Methyl tert-butyl ether	0.32	U	3.3	0.32	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Methylcyclohexane	0.50	U	3.3	0.50	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Methylene Chloride	1.5	U	3.3	1.5	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Naphthalene	0.44	U	3.3	0.44	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
n-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
N-Propylbenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
sec-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Tetrachloroethene	0.44	U	3.3	0.44	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Toluene	0.25	U	3.3	0.25	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
trans-1,2-Dichloroethene	0.34	U	3.3	0.34	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
trans-1,3-Dichloropropene	1.4	U	3.3	1.4	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1

Client Sample ID: SO-12656942-KP-121024-005

Lab Sample ID: 480-226170-6

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 87.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.72	U	3.3	0.72	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Trichlorofluoromethane	0.31	U	3.3	0.31	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Vinyl chloride	0.40	U	3.3	0.40	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Xylenes, Total	0.55	U	6.6	0.55	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
cis-1,3-Dichloropropene	0.47	U	3.3	0.47	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
Styrene	0.16	U	3.3	0.16	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1
tert-Butylbenzene	0.34	U	3.3	0.34	ug/Kg	☼	12/12/24 15:47	12/12/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*12/12/24 15:47*	*12/12/24 19:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*12/12/24 15:47*	*12/12/24 19:54*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*12/12/24 15:47*	*12/12/24 19:54*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*12/12/24 15:47*	*12/12/24 19:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
bis (2-chloroisopropyl) ether	39	U	190	39	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4,5-Trichlorophenol	52	U	190	52	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4,6-Trichlorophenol	39	U	190	39	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4-Dichlorophenol	20	U	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4-Dimethylphenol	47	U	190	47	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4-Dinitrophenol	890	U	1900	890	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,4-Dinitrotoluene	40	U	190	40	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2,6-Dinitrotoluene	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Chloronaphthalene	32	U	190	32	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
1,4-Dioxane	63	U	110	63	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Chlorophenol	35	U	380	35	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Methylphenol	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Methylnaphthalene	39	U	190	39	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Nitroaniline	28	U	380	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
2-Nitrophenol	55	U	190	55	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
3,3'-Dichlorobenzidine	230	U	380	230	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
3-Nitroaniline	53	U	380	53	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4,6-Dinitro-2-methylphenol	190	U	380	190	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Bromophenyl phenyl ether	27	U	190	27	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Chloro-3-methylphenol	48	U	190	48	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Chloroaniline	48	U	190	48	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Chlorophenyl phenyl ether	24	U	190	24	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Methylphenol	23	U	380	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Nitroaniline	100	U	380	100	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
4-Nitrophenol	140	U	380	140	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Acenaphthene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Acenaphthylene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Acetophenone	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Anthracene	48	U	190	48	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Atrazine	67	U	190	67	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Benzaldehyde	150	U	190	150	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Benzo[a]anthracene	**19**	**J**	190	19	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Benzo[a]pyrene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1

Client Sample ID: SO-12656942-KP-121024-005

Lab Sample ID: 480-226170-6

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 87.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	31	U	190	31	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Benzo[g,h,i]perylene	20	U	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Benzo[k]fluoranthene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Bis(2-chloroethoxy)methane	41	U	190	41	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Bis(2-chloroethyl)ether	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Bis(2-ethylhexyl) phthalate	66	U	190	66	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Butyl benzyl phthalate	32	U	190	32	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Caprolactam	58	U	190	58	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Carbazole	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Chrysene	43	U	190	43	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Dibenz(a,h)anthracene	34	U	190	34	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Di-n-butyl phthalate	33	U	190	33	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Di-n-octyl phthalate	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Dibenzofuran	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Diethyl phthalate	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Dimethyl phthalate	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Fluoranthene	**44**	**J**	190	20	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Fluorene	23	U	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Hexachlorobenzene	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Hexachlorobutadiene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Hexachlorocyclopentadiene	26	U	190	26	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Hexachloroethane	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Indeno[1,2,3-cd]pyrene	24	U	190	24	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Isophorone	41	U	190	41	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
N-Nitrosodi-n-propylamine	33	U	190	33	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
N-Nitrosodiphenylamine	160	U	190	160	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Naphthalene	25	U	190	25	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Nitrobenzene	22	U	190	22	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Pentachlorophenol	190	U	380	190	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Phenanthrene	28	U	190	28	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Phenol	30	U	190	30	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1
Pyrene	**34**	**J**	190	23	ug/Kg	☼	12/11/24 13:49	12/12/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*78*		*40 - 121*	*12/11/24 13:49*	*12/12/24 16:36*	*1*
Phenol-d5 (Surr)	*77*		*41 - 120*	*12/11/24 13:49*	*12/12/24 16:36*	*1*
p-Terphenyl-d14 (Surr)	*79*		*46 - 143*	*12/11/24 13:49*	*12/12/24 16:36*	*1*
2,4,6-Tribromophenol (Surr)	*106*		*26 - 143*	*12/11/24 13:49*	*12/12/24 16:36*	*1*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*12/11/24 13:49*	*12/12/24 16:36*	*1*
2-Fluorophenol (Surr)	*73*		*36 - 120*	*12/11/24 13:49*	*12/12/24 16:36*	*1*

Client Sample ID: SO-12656942-KP-121024-029

Lab Sample ID: 480-226170-7

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 87.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.22	U	3.1	0.22	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,1,2,2-Tetrachloroethane	0.50	U	3.1	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.70	U	3.1	0.70	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1

Client Sample ID: SO-12656942-KP-121024-029

Lab Sample ID: 480-226170-7

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 87.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.40	U	3.1	0.40	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,1-Dichloroethane	0.38	U	3.1	0.38	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,1-Dichloroethene	0.38	U	3.1	0.38	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2,4-Trichlorobenzene	0.19	U	3.1	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2,4-Trimethylbenzene	0.59	U	3.1	0.59	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2-Dibromo-3-Chloropropane	1.5	U	3.1	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2-Dichlorobenzene	0.24	U	3.1	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2-Dichloroethane	0.15	U	3.1	0.15	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2-Dichloropropane	1.5	U	3.1	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,3,5-Trimethylbenzene	0.20	U	3.1	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,3-Dichlorobenzene	0.16	U	3.1	0.16	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,4-Dichlorobenzene	0.43	U	3.1	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
2-Butanone (MEK)	1.1	U	15	1.1	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
2-Hexanone	1.5	U	15	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
4-Isopropyltoluene	0.25	U	3.1	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
4-Methyl-2-pentanone (MIBK)	1.0	U	15	1.0	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Acetone	**4.5**	**J**	15	2.6	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Benzene	0.15	U	3.1	0.15	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Bromoform	1.5	U	3.1	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Bromomethane	0.28	U	3.1	0.28	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Carbon disulfide	1.5	U	3.1	1.5	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Carbon tetrachloride	0.30	U	3.1	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Chlorobenzene	0.41	U	3.1	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Dibromochloromethane	0.39	U	3.1	0.39	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Chloroethane	0.70	U	3.1	0.70	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Chloroform	**0.20**	**J B**	3.1	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Chloromethane	0.19	U	3.1	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
cis-1,2-Dichloroethene	0.39	U	3.1	0.39	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Cyclohexane	0.43	U	3.1	0.43	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Bromodichloromethane	0.41	U	3.1	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Dichlorodifluoromethane	0.25	U	3.1	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Ethylbenzene	0.21	U	3.1	0.21	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
1,2-Dibromoethane	0.40	U	3.1	0.40	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Isopropylbenzene	0.46	U	3.1	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Methyl acetate	1.9	U	15	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Methyl tert-butyl ether	0.30	U	3.1	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Methylcyclohexane	0.47	U	3.1	0.47	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Methylene Chloride	**1.6**	**J**	3.1	1.4	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Naphthalene	0.41	U	3.1	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
n-Butylbenzene	0.27	U	3.1	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
N-Propylbenzene	0.25	U	3.1	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
sec-Butylbenzene	0.27	U	3.1	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Tetrachloroethene	0.41	U	3.1	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Toluene	0.23	U	3.1	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
trans-1,2-Dichloroethene	0.32	U	3.1	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
trans-1,3-Dichloropropene	1.4	U	3.1	1.4	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Trichloroethene	0.68	U	3.1	0.68	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Trichlorofluoromethane	0.29	U	3.1	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Vinyl chloride	0.38	U	3.1	0.38	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1

Client Sample ID: SO-12656942-KP-121024-029

Lab Sample ID: 480-226170-7

Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 87.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.52	U	6.2	0.52	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
cis-1,3-Dichloropropene	0.44	U	3.1	0.44	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
Styrene	0.15	U	3.1	0.15	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1
tert-Butylbenzene	0.32	U	3.1	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*12/11/24 10:00*	*12/11/24 22:35*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*12/11/24 10:00*	*12/11/24 22:35*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*12/11/24 10:00*	*12/11/24 22:35*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*12/11/24 10:00*	*12/11/24 22:35*	*1*

Client Sample ID: SO-12656942-KP-121024-030

Lab Sample ID: 480-226170-8

Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
bis (2-chloroisopropyl) ether	40	U	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4,5-Trichlorophenol	54	U	200	54	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4,6-Trichlorophenol	40	U	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4-Dichlorophenol	21	U	200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4-Dimethylphenol	49	U	200	49	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4-Dinitrophenol	930	U	2000	930	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,4-Dinitrotoluene	41	U	200	41	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2,6-Dinitrotoluene	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Chloronaphthalene	33	U	200	33	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
1,4-Dioxane	65	U	120	65	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Chlorophenol	37	U	390	37	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Methylphenol	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Methylnaphthalene	40	U	200	40	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Nitroaniline	30	U	390	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
2-Nitrophenol	57	U	200	57	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
3,3'-Dichlorobenzidine	240	U	390	240	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
3-Nitroaniline	56	U	390	56	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4,6-Dinitro-2-methylphenol	200	U	390	200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Bromophenyl phenyl ether	28	U	200	28	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Chloro-3-methylphenol	50	U	200	50	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Chloroaniline	50	U	200	50	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Chlorophenyl phenyl ether	25	U	200	25	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Methylphenol	24	U	390	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Nitroaniline	110	U	390	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
4-Nitrophenol	140	U	390	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Acenaphthene	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Acenaphthylene	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Acetophenone	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Anthracene	50	U	200	50	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Atrazine	70	U	200	70	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Benzaldehyde	160	U	200	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Benzo[a]anthracene	20	U	200	20	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1

Client Sample ID: SO-12656942-KP-121024-030

Lab Sample ID: 480-226170-8

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 84.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Benzo[b]fluoranthene	32	U	200	32	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Benzo[g,h,i]perylene	21	U	200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Benzo[k]fluoranthene	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Bis(2-chloroethoxy)methane	43	U	200	43	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Bis(2-chloroethyl)ether	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Bis(2-ethylhexyl) phthalate	**87**	**J**	200	69	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Butyl benzyl phthalate	33	U	200	33	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Caprolactam	60	U	200	60	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Carbazole	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Chrysene	45	U	200	45	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Dibenz(a,h)anthracene	36	U	200	36	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Di-n-butyl phthalate	34	U	200	34	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Di-n-octyl phthalate	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Dibenzofuran	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Diethyl phthalate	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Dimethyl phthalate	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Fluoranthene	**37**	**J**	200	21	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Fluorene	24	U	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Hexachlorobenzene	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Hexachlorobutadiene	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Hexachlorocyclopentadiene	27	U	200	27	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Hexachloroethane	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Indeno[1,2,3-cd]pyrene	25	U	200	25	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Isophorone	43	U	200	43	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
N-Nitrosodi-n-propylamine	34	U	200	34	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
N-Nitrosodiphenylamine	160	U	200	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Naphthalene	26	U	200	26	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Nitrobenzene	22	U	200	22	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Pentachlorophenol	200	U	390	200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Phenanthrene	30	U	200	30	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Phenol	31	U	200	31	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1
Pyrene	**32**	**J**	200	24	ug/Kg	☼	12/11/24 13:49	12/12/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*40 - 121*	*12/11/24 13:49*	*12/12/24 17:00*	*1*
Phenol-d5 (Surr)	*82*		*41 - 120*	*12/11/24 13:49*	*12/12/24 17:00*	*1*
p-Terphenyl-d14 (Surr)	*82*		*46 - 143*	*12/11/24 13:49*	*12/12/24 17:00*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*26 - 143*	*12/11/24 13:49*	*12/12/24 17:00*	*1*
2-Fluorobiphenyl (Surr)	*84*		*50 - 121*	*12/11/24 13:49*	*12/12/24 17:00*	*1*
2-Fluorophenol (Surr)	*81*		*36 - 120*	*12/11/24 13:49*	*12/12/24 17:00*	*1*

Client Sample ID: SO-12656942-KP-121024-014

Lab Sample ID: 480-226170-9

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 81.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoropentanoic acid (PFPeA)	0.099	U	0.39	0.099	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1

Client Sample ID: SO-12656942-KP-121024-014
Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-9
Matrix: Solid
Percent Solids: 81.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoroheptanoic acid (PFHpA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorooctanoic acid (PFOA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorononanoic acid (PFNA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorodecanoic acid (PFDA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoroundecanoic acid (PFUnA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorododecanoic acid (PFDoA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorotridecanoic acid (PFTrDA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorotetradecanoic acid (PFTeDA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorobutanesulfonic acid (PFBS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoropentanesulfonic acid (PFPeS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoroheptanesulfonic acid (PFHpS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorooctanesulfonic acid (PFOS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorononanesulfonic acid (PFNS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorododecanesulfonic acid (PFDoS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorooctanesulfonamide (PFOSA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.49	U	2.0	0.49	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.49	U	2.0	0.49	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.099	U	0.39	0.099	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.099	U	0.39	0.099	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.79	0.20	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.099	U	0.39	0.099	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	0.99	0.25	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1

Client Sample ID: SO-12656942-KP-121024-014

Lab Sample ID: 480-226170-9

Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 81.2

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.2	U	4.9	1.2	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.2	U	4.9	1.2	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluorodecanesulfonic acid (PFDS)	0.049	U	0.20	0.049	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.099	U	0.39	0.099	ug/Kg	☼	12/13/24 08:48	12/14/24 04:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C5 PFPeA	*101*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C5 PFHxA	*79.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C4 PFHpA	*89.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C8 PFOA	*89.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C9 PFNA	*88.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C6 PFDA	*84.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C7 PFUnA	*98.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C2 PFTeDA	*109*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C3 PFBS	*91.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C3 PFHxS	*87.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C8 PFOS	*71.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C8 PFOSA	*75.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
d3-NMeFOSAA	*73.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
d5-NEtFOSAA	*113*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
M2-4:2 FTS	*98.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
M2-6:2 FTS	*95.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
M2-8:2 FTS	*108*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C3 HFPO-DA	*89.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
d7-N-MeFOSE-M	*61.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
d9-N-EtFOSE-M	*60.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
d5-NEtPFOSA	*68.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
D3-NMeFOSA	*80.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*
13C2-PFDoDA	*94.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:06*	*1*

Client Sample ID: SO-12656942-KP-121024-033

Lab Sample ID: 480-226170-10

Date Collected: 12/10/24 13:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 81.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoropentanoic acid (PFPeA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorohexanoic acid (PFHxA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoroheptanoic acid (PFHpA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorooctanoic acid (PFOA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorononanoic acid (PFNA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorodecanoic acid (PFDA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoroundecanoic acid (PFUnA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorododecanoic acid (PFDoA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorotridecanoic acid (PFTrDA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorotetradecanoic acid (PFTeDA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1

Client Sample ID: SO-12656942-KP-121024-033

Lab Sample ID: 480-226170-10

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 81.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoropentanesulfonic acid (PFPeS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoroheptanesulfonic acid (PFHpS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorooctanesulfonic acid (PFOS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorononanesulfonic acid (PFNS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorododecanesulfonic acid (PFDoS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorooctanesulfonamide (PFOSA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.52	U	2.1	0.52	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.52	U	2.1	0.52	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.21	U	0.83	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.26	U	1.0	0.26	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	5.2	1.3	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	5.2	1.3	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluorodecanesulfonic acid (PFDS)	0.052	U	0.21	0.052	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C5 PFPeA	*102*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*

Client Sample ID: SO-12656942-KP-121024-033

Lab Sample ID: 480-226170-10

Date Collected: 12/10/24 13:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 81.0

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFHxA	*80.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C4 PFHpA	*95.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C8 PFOA	*88.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C9 PFNA	*93.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C6 PFDA	*84.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C7 PFUnA	*99.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C2 PFTeDA	*117*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C3 PFBS	*94.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C3 PFHxS	*93.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C8 PFOS	*76.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C8 PFOSA	*97.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
d3-NMeFOSAA	*90.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
d5-NEtFOSAA	*135*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
M2-4:2 FTS	*94.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
M2-6:2 FTS	*101*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
M2-8:2 FTS	*130*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C3 HFPO-DA	*93.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
d7-N-MeFOSE-M	*111*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
d9-N-EtFOSE-M	*172*	**5+*	*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
d5-NEtPFOSA	*105*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
D3-NMeFOSA	*112*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*
13C2-PFDoDA	*113*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:23*	*1*

Client Sample ID: SO-12656942-KP-121024-017

Lab Sample ID: 480-226170-11

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 88.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.31	U	4.2	0.31	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,1,2,2-Tetrachloroethane	0.68	U	4.2	0.68	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.96	U	4.2	0.96	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,1,2-Trichloroethane	0.55	U	4.2	0.55	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,1-Dichloroethane	0.51	U	4.2	0.51	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,1-Dichloroethene	0.51	U	4.2	0.51	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2,4-Trichlorobenzene	0.26	U	4.2	0.26	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2,4-Trimethylbenzene	0.81	U	4.2	0.81	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2-Dibromo-3-Chloropropane	2.1	U	4.2	2.1	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2-Dichlorobenzene	0.33	U	4.2	0.33	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2-Dichloroethane	0.21	U	4.2	0.21	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2-Dichloropropane	2.1	U	4.2	2.1	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,3,5-Trimethylbenzene	0.27	U	4.2	0.27	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,3-Dichlorobenzene	0.22	U	4.2	0.22	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,4-Dichlorobenzene	0.59	U	4.2	0.59	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
2-Butanone (MEK)	**6.7**	**J**	21	1.5	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
2-Hexanone	2.1	U	21	2.1	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
4-Isopropyltoluene	0.34	U	4.2	0.34	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
4-Methyl-2-pentanone (MIBK)	1.4	U	21	1.4	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Acetone	3.5	U	21	3.5	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Benzene	**1.1**	**J**	4.2	0.21	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1

Client Sample ID: SO-12656942-KP-121024-017

Lab Sample ID: 480-226170-11

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 88.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	2.1	U	4.2	2.1	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Bromomethane	0.38	U	4.2	0.38	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Carbon disulfide	2.1	U	4.2	2.1	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Carbon tetrachloride	0.41	U	4.2	0.41	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Chlorobenzene	0.56	U	4.2	0.56	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Dibromochloromethane	0.54	U	4.2	0.54	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Chloroethane	0.95	U	4.2	0.95	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Chloroform	0.26	U	4.2	0.26	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Chloromethane	0.25	U	4.2	0.25	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
cis-1,2-Dichloroethene	0.54	U	4.2	0.54	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Cyclohexane	0.59	U	4.2	0.59	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Bromodichloromethane	0.56	U	4.2	0.56	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Dichlorodifluoromethane	0.35	U	4.2	0.35	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Ethylbenzene	**1.5**	**J**	4.2	0.29	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
1,2-Dibromoethane	0.54	U	4.2	0.54	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Isopropylbenzene	0.63	U	4.2	0.63	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Methyl acetate	2.5	U	21	2.5	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Methyl tert-butyl ether	0.41	U	4.2	0.41	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Methylcyclohexane	0.64	U	4.2	0.64	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Methylene Chloride	**4.8**		4.2	1.9	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Naphthalene	0.56	U	4.2	0.56	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
n-Butylbenzene	**0.43**	**J**	4.2	0.37	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
N-Propylbenzene	**1.1**	**J**	4.2	0.34	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
sec-Butylbenzene	0.37	U	4.2	0.37	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Tetrachloroethene	0.56	U	4.2	0.56	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Toluene	**2.2**	**J**	4.2	0.32	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
trans-1,2-Dichloroethene	0.43	U	4.2	0.43	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
trans-1,3-Dichloropropene	1.9	U	4.2	1.9	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Trichloroethene	0.93	U	4.2	0.93	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Trichlorofluoromethane	0.40	U	4.2	0.40	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Vinyl chloride	0.51	U	4.2	0.51	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Xylenes, Total	**1.6**	**J**	8.4	0.71	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
cis-1,3-Dichloropropene	0.61	U	4.2	0.61	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
Styrene	0.21	U	4.2	0.21	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1
tert-Butylbenzene	0.44	U	4.2	0.44	ug/Kg	☼	12/12/24 15:47	12/12/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*12/12/24 15:47*	*12/12/24 20:21*	*1*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*	*12/12/24 15:47*	*12/12/24 20:21*	*1*
Toluene-d8 (Surr)	*109*		*71 - 125*	*12/12/24 15:47*	*12/12/24 20:21*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*12/12/24 15:47*	*12/12/24 20:21*	*1*

Client Sample ID: SO-12656942-KP-121024-018

Lab Sample ID: 480-226170-12

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	140	U	960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
bis (2-chloroisopropyl) ether	190	U	960	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5

Client Sample ID: SO-12656942-KP-121024-018

Lab Sample ID: 480-226170-12

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	260	U	960	260	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,4,6-Trichlorophenol	190	U	960	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,4-Dichlorophenol	100	U	960	100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,4-Dimethylphenol	230	U	960	230	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,4-Dinitrophenol	4400	U	9400	4400	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,4-Dinitrotoluene	200	U	960	200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2,6-Dinitrotoluene	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Chloronaphthalene	160	U	960	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
1,4-Dioxane	310	U	570	310	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Chlorophenol	180	U	1900	180	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Methylphenol	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Methylnaphthalene	190	U	960	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Nitroaniline	140	U	1900	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
2-Nitrophenol	270	U	960	270	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
3,3'-Dichlorobenzidine	1100	U	1900	1100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
3-Nitroaniline	270	U	1900	270	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4,6-Dinitro-2-methylphenol	960	U	1900	960	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Bromophenyl phenyl ether	140	U	960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Chloro-3-methylphenol	240	U	960	240	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Chloroaniline	240	U	960	240	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Chlorophenyl phenyl ether	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Methylphenol	110	U	1900	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Nitroaniline	500	U	1900	500	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
4-Nitrophenol	670	U	1900	670	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Acenaphthene	140	U	960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Acenaphthylene	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Acetophenone	130	U	960	130	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Anthracene	240	U	960	240	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Atrazine	330	U	960	330	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzaldehyde	760	U	960	760	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzo[a]anthracene	**810**	**J**	960	96	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzo[a]pyrene	**1300**		960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzo[b]fluoranthene	**1700**		960	150	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzo[g,h,i]perylene	**1100**		960	100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Benzo[k]fluoranthene	**710**	**J**	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Bis(2-chloroethoxy)methane	200	U	960	200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Bis(2-chloroethyl)ether	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Bis(2-ethylhexyl) phthalate	330	U	960	330	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Butyl benzyl phthalate	160	U	960	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Caprolactam	290	U	960	290	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Carbazole	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Chrysene	**1000**		960	220	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Dibenz(a,h)anthracene	**360**	**J**	960	170	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Di-n-butyl phthalate	160	U	960	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Di-n-octyl phthalate	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Dibenzofuran	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Diethyl phthalate	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Dimethyl phthalate	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Fluoranthene	**760**	**J**	960	100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-018
Date Collected: 12/10/24 14:30
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-12
Matrix: Solid
Percent Solids: 88.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Hexachlorobenzene	130	U	960	130	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Hexachlorobutadiene	140	U	960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Hexachlorocyclopentadiene	130	U	960	130	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Hexachloroethane	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Indeno[1,2,3-cd]pyrene	**920**	**J**	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Isophorone	200	U	960	200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
N-Nitrosodi-n-propylamine	160	U	960	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
N-Nitrosodiphenylamine	780	U	960	780	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Naphthalene	120	U	960	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Nitrobenzene	110	U	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Pentachlorophenol	960	U	1900	960	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Phenanthrene	**170**	**J**	960	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Phenol	150	U	960	150	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5
Pyrene	**760**	**J**	960	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*40 - 121*	*12/11/24 13:49*	*12/12/24 17:25*	*5*
Phenol-d5 (Surr)	*74*		*41 - 120*	*12/11/24 13:49*	*12/12/24 17:25*	*5*
p-Terphenyl-d14 (Surr)	*85*		*46 - 143*	*12/11/24 13:49*	*12/12/24 17:25*	*5*
2,4,6-Tribromophenol (Surr)	*97*		*26 - 143*	*12/11/24 13:49*	*12/12/24 17:25*	*5*
2-Fluorobiphenyl (Surr)	*80*		*50 - 121*	*12/11/24 13:49*	*12/12/24 17:25*	*5*
2-Fluorophenol (Surr)	*75*		*36 - 120*	*12/11/24 13:49*	*12/12/24 17:25*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7700**		11	9.5	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Antimony	0.58	U	16	0.58	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Arsenic	**7.1**		2.2	0.97	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Barium	**63**		0.55	0.15	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Beryllium	**0.58**		0.22	0.044	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Cadmium	**0.18**	**J**	0.22	0.077	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Calcium	**42000**		55	30	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Chromium	**21**		0.55	0.39	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Cobalt	**4.9**		0.55	0.11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Copper	**60**	**^5+**	1.1	0.63	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Iron	**60000**		11	9.3	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Lead	**130**		1.1	0.50	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Magnesium	**13000**		22	9.3	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Manganese	**650**		1.1	0.31	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Nickel	**30**		5.5	0.27	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Potassium	**1100**		33	27	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Selenium	0.88	U	4.4	0.88	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Silver	0.22	U ^5-	0.66	0.22	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Sodium	**210**		150	67	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Thallium	0.83	U	6.6	0.83	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Vanadium	**22**		0.55	0.14	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1
Zinc	**62**	**^5-**	2.2	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:52	1

Client Sample ID: SO-12656942-KP-121024-018

Lab Sample ID: 480-226170-12

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 88.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.023	0.0053	mg/Kg	☼	12/13/24 09:11	12/13/24 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.50	U	1.0	0.50	mg/Kg	☼	12/11/24 11:55	12/11/24 17:36	1

Client Sample ID: SO-12656942-KP-121024-006

Lab Sample ID: 480-226170-13

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 83.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		12	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Antimony	0.65	U	18	0.65	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Arsenic	3.8		2.4	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Barium	82		0.61	0.17	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Beryllium	0.61		0.24	0.049	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Cadmium	0.34		0.24	0.086	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Calcium	26000		61	33	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Chromium	18		0.61	0.44	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Cobalt	10		0.61	0.12	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Copper	20	^5+	1.2	0.70	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Iron	19000		12	10	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Lead	16		1.2	0.56	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Magnesium	17000		24	10	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Manganese	760		1.2	0.34	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Nickel	22		6.1	0.31	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Potassium	3900		37	30	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Selenium	0.98	U	4.9	0.98	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Silver	0.45	J ^5-	0.73	0.24	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Sodium	340		170	75	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Thallium	0.93	U	7.3	0.93	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Vanadium	30		0.61	0.16	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1
Zinc	69	^5-	2.4	1.2	mg/Kg	☼	12/11/24 15:07	12/12/24 12:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.025	0.0058	mg/Kg	☼	12/13/24 09:11	12/13/24 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.56	U	1.2	0.56	mg/Kg	☼	12/11/24 11:55	12/11/24 17:36	1

Client Sample ID: SO-12656942-KP-121024-031

Lab Sample ID: 480-226170-14

Date Collected: 12/10/24 14:30
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 84.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	16000		12	10	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Antimony	0.64	U	18	0.64	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1

Client Sample ID: SO-12656942-KP-121024-031

Lab Sample ID: 480-226170-14

Date Collected: 12/10/24 14:30
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 84.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		2.4	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Barium	73		0.60	0.17	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Beryllium	0.64		0.24	0.048	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Cadmium	0.20	J	0.24	0.084	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Calcium	37000		60	32	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Chromium	19		0.60	0.43	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Cobalt	7.8		0.60	0.12	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Copper	19	^5+	1.2	0.68	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Iron	18000		12	10	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Lead	16		1.2	0.55	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Magnesium	23000		24	10	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Manganese	440		1.2	0.34	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Nickel	19		6.0	0.30	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Potassium	4300		36	29	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Selenium	0.96	U	4.8	0.96	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Silver	0.41	J ^5-	0.72	0.24	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Sodium	320		170	73	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Thallium	0.91	U	7.2	0.91	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Vanadium	31		0.60	0.16	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1
Zinc	71	^5-	2.4	1.2	mg/Kg	☼	12/11/24 15:07	12/12/24 12:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.024	0.0054	mg/Kg	☼	12/13/24 09:11	12/13/24 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.49	U	1.0	0.49	mg/Kg	☼	12/11/24 11:55	12/11/24 17:36	1

Client Sample ID: SO-12656942-KP-121024-019

Lab Sample ID: 480-226170-15

Date Collected: 12/10/24 13:00
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 86.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.37	U	1.9	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
4,4'-DDE	0.39	U	1.9	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
4,4'-DDT	0.44	U	1.9	0.44	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Aldrin	0.46	U	1.9	0.46	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
alpha-BHC	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
cis-Chlordane	0.94	U	1.9	0.94	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
beta-BHC	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
delta-BHC	0.35	U	1.9	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Dieldrin	0.45	U	1.9	0.45	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endosulfan I	0.36	U	1.9	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endosulfan II	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endosulfan sulfate	0.35	U	1.9	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endrin	0.51	J	1.9	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endrin aldehyde	0.48	U	1.9	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Endrin ketone	0.46	U	1.9	0.46	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1

Client Sample ID: SO-12656942-KP-121024-019

Lab Sample ID: 480-226170-15

Date Collected: 12/10/24 13:00
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 86.5

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.35	U	1.9	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
trans-Chlordane	0.60	U	1.9	0.60	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Heptachlor	0.41	U	1.9	0.41	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Heptachlor epoxide	0.49	U	1.9	0.49	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Methoxychlor	0.38	U	1.9	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1
Toxaphene	11	U	19	11	ug/Kg	☼	12/12/24 07:25	12/16/24 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*45 - 120*	*12/12/24 07:25*	*12/16/24 12:49*	*1*
DCB Decachlorobiphenyl	*145*	*S1+*	*45 - 120*	*12/12/24 07:25*	*12/16/24 12:49*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*12/12/24 07:25*	*12/16/24 12:49*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*12/12/24 07:25*	*12/16/24 12:49*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.056	U	0.29	0.056	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1221	0.056	U	0.29	0.056	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1232	0.056	U	0.29	0.056	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1242	0.056	U	0.29	0.056	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1248	0.056	U	0.29	0.056	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1254	0.13	U	0.29	0.13	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1
PCB-1260	0.13	U	0.29	0.13	mg/Kg	☼	12/12/24 07:32	12/13/24 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*12/12/24 07:32*	*12/13/24 10:20*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*12/12/24 07:32*	*12/13/24 10:20*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*12/12/24 07:32*	*12/13/24 10:20*	*1*
DCB Decachlorobiphenyl	*79*		*65 - 174*	*12/12/24 07:32*	*12/13/24 10:20*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	6.9	U	19	6.9	ug/Kg	☼	12/11/24 12:11	12/13/24 14:21	1
2,4-D	12	U	19	12	ug/Kg	☼	12/11/24 12:11	12/13/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:21*	*1*
2,4-Dichlorophenylacetic acid	*76*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:21*	*1*

Client Sample ID: SO-12656942-KP-121024-020

Lab Sample ID: 480-226170-16

Date Collected: 12/10/24 11:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 80.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoropentanoic acid (PFPeA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorohexanoic acid (PFHxA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoroheptanoic acid (PFHpA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorooctanoic acid (PFOA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorononanoic acid (PFNA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorodecanoic acid (PFDA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1

Client Sample ID: SO-12656942-KP-121024-020

Lab Sample ID: 480-226170-16

Date Collected: 12/10/24 11:10
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 80.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorododecanoic acid (PFDoA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorotridecanoic acid (PFTrDA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorotetradecanoic acid (PFTeDA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorobutanesulfonic acid (PFBS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoropentanesulfonic acid (PFPeS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoroheptanesulfonic acid (PFHpS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorooctanesulfonic acid (PFOS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorononanesulfonic acid (PFNS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorododecanesulfonic acid (PFDoS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorooctanesulfonamide (PFOSA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.51	U	2.1	0.51	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.51	U	2.1	0.51	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.21	U	0.82	0.21	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.26	U	1.0	0.26	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	5.1	1.3	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	5.1	1.3	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1
Perfluorodecanesulfonic acid (PFDS)	0.051	U	0.21	0.051	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1

Client Sample ID: SO-12656942-KP-121024-020

Lab Sample ID: 480-226170-16

Date Collected: 12/10/24 11:10
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 80.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.41	0.10	ug/Kg	☼	12/13/24 08:48	12/14/24 04:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C5 PFPeA	*102*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C5 PFHxA	*81.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C4 PFHpA	*94.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C8 PFOA	*94.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C9 PFNA	*93.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C6 PFDA	*87.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C7 PFUnA	*100*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C2 PFTeDA	*113*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C3 PFBS	*94.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C3 PFHxS	*91.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C8 PFOS	*78.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C8 PFOSA	*80.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
d3-NMeFOSAA	*79.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
d5-NEtFOSAA	*135*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
M2-4:2 FTS	*101*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
M2-8:2 FTS	*107*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C3 HFPO-DA	*93.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
d7-N-MeFOSE-M	*69.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
d9-N-EtFOSE-M	*72.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
d5-NEtPFOSA	*77.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
D3-NMeFOSA	*95.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*
13C2-PFDoDA	*101*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:40*	*1*

Client Sample ID: SO-12656942-KP-121024-015

Lab Sample ID: 480-226170-17

Date Collected: 12/10/24 15:10
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 75.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.42	U	2.2	0.42	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
4,4'-DDE	0.45	U	2.2	0.45	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
4,4'-DDT	0.51	U	2.2	0.51	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Aldrin	0.53	U	2.2	0.53	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
alpha-BHC	0.39	U	2.2	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
cis-Chlordane	1.1	U	2.2	1.1	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
beta-BHC	0.39	U	2.2	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
delta-BHC	0.40	U	2.2	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Dieldrin	0.52	U	2.2	0.52	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endosulfan I	0.41	U	2.2	0.41	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endosulfan II	0.39	U	2.2	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endosulfan sulfate	0.40	U	2.2	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endrin	0.43	U	2.2	0.43	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endrin aldehyde	0.55	U	2.2	0.55	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Endrin ketone	0.53	U	2.2	0.53	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
gamma-BHC (Lindane)	0.40	U	2.2	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1

Client Sample ID: SO-12656942-KP-121024-015

Lab Sample ID: 480-226170-17

Date Collected: 12/10/24 15:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 75.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	0.69	U	2.2	0.69	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Heptachlor	0.47	U	2.2	0.47	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Heptachlor epoxide	0.56	U	2.2	0.56	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Methoxychlor	0.44	U	2.2	0.44	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1
Toxaphene	13	U	22	13	ug/Kg	☼	12/12/24 07:25	12/16/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*45 - 120*	*12/12/24 07:25*	*12/16/24 13:09*	*1*
DCB Decachlorobiphenyl	*98*		*45 - 120*	*12/12/24 07:25*	*12/16/24 13:09*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:09*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:09*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.045	U	0.23	0.045	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1221	0.045	U	0.23	0.045	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1232	0.045	U	0.23	0.045	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1242	0.045	U	0.23	0.045	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1248	0.045	U	0.23	0.045	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1254	0.11	U	0.23	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1
PCB-1260	0.11	U	0.23	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:02*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:02*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:02*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:02*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	8.0	U	22	8.0	ug/Kg	☼	12/11/24 12:11	12/13/24 14:39	1
2,4-D	14	U	22	14	ug/Kg	☼	12/11/24 12:11	12/13/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:39*	*1*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*	*12/11/24 12:11*	*12/13/24 14:39*	*1*

Client Sample ID: SO-12656942-KP-121024-032

Lab Sample ID: 480-226170-18

Date Collected: 12/10/24 15:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 80.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.40	U	2.1	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
4,4'-DDE	0.43	U	2.1	0.43	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
4,4'-DDT	0.48	U	2.1	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Aldrin	0.50	U	2.1	0.50	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
alpha-BHC	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
cis-Chlordane	1.0	U	2.1	1.0	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
beta-BHC	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
delta-BHC	0.38	U	2.1	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-032
Date Collected: 12/10/24 15:10
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-18
Matrix: Solid
Percent Solids: 80.4

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.49	U	2.1	0.49	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endosulfan I	0.39	U	2.1	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endosulfan II	0.37	U	2.1	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endosulfan sulfate	0.38	U	2.1	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endrin	0.41	U	2.1	0.41	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endrin aldehyde	0.52	U	2.1	0.52	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Endrin ketone	0.50	U	2.1	0.50	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
gamma-BHC (Lindane)	0.38	U	2.1	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
trans-Chlordane	0.65	U	2.1	0.65	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Heptachlor	0.44	U	2.1	0.44	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Heptachlor epoxide	0.53	U	2.1	0.53	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Methoxychlor	0.42	U	2.1	0.42	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1
Toxaphene	12	U	21	12	ug/Kg	☼	12/12/24 07:25	12/16/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*12/12/24 07:25*	*12/16/24 13:28*	*1*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*12/12/24 07:25*	*12/16/24 13:28*	*1*
Tetrachloro-m-xylene	*81*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:28*	*1*
Tetrachloro-m-xylene	*81*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:28*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.047	U	0.24	0.047	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1221	0.047	U	0.24	0.047	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1232	0.047	U	0.24	0.047	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1242	0.047	U	0.24	0.047	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1248	0.047	U	0.24	0.047	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1254	0.11	U	0.24	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1
PCB-1260	0.11	U	0.24	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:20*	*1*
Tetrachloro-m-xylene	*91*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:20*	*1*
DCB Decachlorobiphenyl	*90*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:20*	*1*
DCB Decachlorobiphenyl	*95*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:20*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	7.3	U	20	7.3	ug/Kg	☼	12/11/24 12:11	12/13/24 15:16	1
2,4-D	13	U	20	13	ug/Kg	☼	12/11/24 12:11	12/13/24 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*12/11/24 12:11*	*12/13/24 15:16*	*1*
2,4-Dichlorophenylacetic acid	*74*		*28 - 129*	*12/11/24 12:11*	*12/13/24 15:16*	*1*

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-016
Date Collected: 12/10/24 15:10
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-19
Matrix: Solid
Percent Solids: 86.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoropentanoic acid (PFPeA)	0.092	U	0.37	0.092	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorohexanoic acid (PFHxA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoroheptanoic acid (PFHpA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorooctanoic acid (PFOA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorononanoic acid (PFNA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorodecanoic acid (PFDA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoroundecanoic acid (PFUnA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorododecanoic acid (PFDoA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorotridecanoic acid (PFTrDA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorotetradecanoic acid (PFTeDA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorobutanesulfonic acid (PFBS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoropentanesulfonic acid (PFPeS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoroheptanesulfonic acid (PFHpS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorooctanesulfonic acid (PFOS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorononanesulfonic acid (PFNS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorododecanesulfonic acid (PFDoS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorooctanesulfonamide (PFOSA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.46	U	1.8	0.46	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.46	U	1.8	0.46	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.092	U	0.37	0.092	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.092	U	0.37	0.092	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.18	U	0.74	0.18	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.092	U	0.37	0.092	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1

Client Sample ID: SO-12656942-KP-121024-016

Lab Sample ID: 480-226170-19

Date Collected: 12/10/24 15:10
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 86.6

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.23	U	0.92	0.23	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.2	U	4.6	1.2	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.2	U	4.6	1.2	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluorodecanesulfonic acid (PFDS)	0.046	U	0.18	0.046	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.092	U	0.37	0.092	ug/Kg	☼	12/13/24 08:48	12/14/24 04:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*83.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C5 PFPeA	*99.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C5 PFHxA	*81.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C4 PFHpA	*92.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C8 PFOA	*84.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C9 PFNA	*87.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C6 PFDA	*81.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C7 PFUnA	*85.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C2 PFTeDA	*86.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C3 PFBS	*87.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C3 PFHxS	*85.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C8 PFOS	*70.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C8 PFOSA	*65.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
d3-NMeFOSAA	*56.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
d5-NEtFOSAA	*91.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
M2-4:2 FTS	*86.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
M2-6:2 FTS	*90.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
M2-8:2 FTS	*95.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C3 HFPO-DA	*88.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
d7-N-MeFOSE-M	*61.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
d9-N-EtFOSE-M	*58.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
d5-NEtPFOSA	*72.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
D3-NMeFOSA	*80.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*
13C2-PFDoDA	*81.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 04:56*	*1*

Client Sample ID: SO-12656942-KP-121024-022

Lab Sample ID: 480-226170-20

Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 92.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	140	U	920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
bis (2-chloroisopropyl) ether	180	U	920	180	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4,5-Trichlorophenol	250	U	920	250	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4,6-Trichlorophenol	180	U	920	180	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4-Dichlorophenol	97	U	920	97	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4-Dimethylphenol	220	U	920	220	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4-Dinitrophenol	4200	U	9000	4200	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,4-Dinitrotoluene	190	U	920	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2,6-Dinitrotoluene	110	U	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Chloronaphthalene	150	U	920	150	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5

Client Sample ID: SO-12656942-KP-121024-022

Lab Sample ID: 480-226170-20

Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 92.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	300	U	540	300	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Chlorophenol	170	U	1800	170	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Methylphenol	110	U	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Methylnaphthalene	180	U	920	180	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Nitroaniline	140	U	1800	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
2-Nitrophenol	260	U	920	260	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
3,3'-Dichlorobenzidine	1100	U	1800	1100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
3-Nitroaniline	250	U	1800	250	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4,6-Dinitro-2-methylphenol	920	U	1800	920	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Bromophenyl phenyl ether	130	U	920	130	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Chloro-3-methylphenol	230	U	920	230	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Chloroaniline	230	U	920	230	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Chlorophenyl phenyl ether	110	U	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Methylphenol	110	U	1800	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Nitroaniline	480	U	1800	480	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
4-Nitrophenol	640	U	1800	640	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Acenaphthene	**270**	**J**	920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Acenaphthylene	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Acetophenone	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Anthracene	**1100**		920	230	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Atrazine	320	U	920	320	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzaldehyde	730	U	920	730	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzo[a]anthracene	**2300**		920	92	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzo[a]pyrene	**2100**		920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzo[b]fluoranthene	**2400**		920	150	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzo[g,h,i]perylene	**1300**		920	97	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Benzo[k]fluoranthene	**1200**		920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Bis(2-chloroethoxy)methane	190	U	920	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Bis(2-chloroethyl)ether	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Bis(2-ethylhexyl) phthalate	310	U	920	310	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Butyl benzyl phthalate	150	U	920	150	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Caprolactam	280	U	920	280	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Carbazole	**410**	**J**	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Chrysene	**2300**		920	210	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Dibenz(a,h)anthracene	**410**	**J**	920	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Di-n-butyl phthalate	160	U	920	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Di-n-octyl phthalate	110	U	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Dibenzofuran	**190**	**J**	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Diethyl phthalate	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Dimethyl phthalate	110	U	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Fluoranthene	**4900**		920	97	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Fluorene	**340**	**J**	920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Hexachlorobenzene	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Hexachlorobutadiene	140	U	920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Hexachlorocyclopentadiene	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Hexachloroethane	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Indeno[1,2,3-cd]pyrene	**1100**		920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Isophorone	190	U	920	190	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
N-Nitrosodi-n-propylamine	160	U	920	160	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-022

Lab Sample ID: 480-226170-20

Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 92.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	750	U	920	750	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Naphthalene	120	U	920	120	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Nitrobenzene	100	U	920	100	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Pentachlorophenol	920	U	1800	920	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Phenanthrene	**3900**		920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Phenol	140	U	920	140	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5
Pyrene	**4000**		920	110	ug/Kg	☼	12/11/24 13:49	12/12/24 17:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*40 - 121*	*12/11/24 13:49*	*12/12/24 17:49*	*5*
Phenol-d5 (Surr)	*72*		*41 - 120*	*12/11/24 13:49*	*12/12/24 17:49*	*5*
p-Terphenyl-d14 (Surr)	*84*		*46 - 143*	*12/11/24 13:49*	*12/12/24 17:49*	*5*
2,4,6-Tribromophenol (Surr)	*86*		*26 - 143*	*12/11/24 13:49*	*12/12/24 17:49*	*5*
2-Fluorobiphenyl (Surr)	*80*		*50 - 121*	*12/11/24 13:49*	*12/12/24 17:49*	*5*
2-Fluorophenol (Surr)	*74*		*36 - 120*	*12/11/24 13:49*	*12/12/24 17:49*	*5*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		11	9.8	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Antimony	0.61	U	17	0.61	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Arsenic	**6.9**		2.3	1.0	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Barium	**110**		0.57	0.16	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Beryllium	**0.66**		0.23	0.046	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Cadmium	**0.69**		0.23	0.080	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Calcium	**37000**		57	31	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Chromium	**19**		0.57	0.41	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Cobalt	**5.9**		0.57	0.11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Copper	**56**	**^5+**	1.1	0.65	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Iron	**25000**		11	9.7	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Lead	**110**		1.1	0.53	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Magnesium	**6800**		23	9.7	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Manganese	**770**		1.1	0.32	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Nickel	**17**		5.7	0.29	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Potassium	**2400**		34	28	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Selenium	0.91	U	4.6	0.91	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Silver	0.23	U ^5-	0.69	0.23	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Sodium	**1300**		160	70	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Thallium	**0.88**	**J**	6.9	0.87	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Vanadium	**23**		0.57	0.15	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1
Zinc	**130**	**^5-**	2.3	1.2	mg/Kg	☼	12/11/24 15:07	12/12/24 12:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.021	0.0049	mg/Kg	☼	12/13/24 09:11	12/13/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.75**	**J**	1.1	0.52	mg/Kg	☼	12/11/24 11:55	12/11/24 17:39	1

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-021
Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-21
Matrix: Solid
Percent Solids: 76.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.29	U	4.0	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,1,2,2-Tetrachloroethane	0.64	U	4.0	0.64	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.90	U	4.0	0.90	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,1,2-Trichloroethane	0.51	U	4.0	0.51	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,1-Dichloroethane	0.48	U	4.0	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,1-Dichloroethene	0.48	U	4.0	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2,4-Trichlorobenzene	0.24	U	4.0	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2,4-Trimethylbenzene	0.76	U	4.0	0.76	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2-Dichlorobenzene	0.31	U	4.0	0.31	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2-Dichloroethane	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2-Dichloropropane	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,3,5-Trimethylbenzene	0.25	U	4.0	0.25	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,3-Dichlorobenzene	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,4-Dichlorobenzene	0.55	U	4.0	0.55	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
2-Butanone (MEK)	1.4	U	20	1.4	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
2-Hexanone	2.0	U	20	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
4-Isopropyltoluene	0.32	U	4.0	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
4-Methyl-2-pentanone (MIBK)	1.3	U	20	1.3	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Acetone	**44**		20	3.3	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Benzene	0.19	U	4.0	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Bromoform	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Bromomethane	0.36	U	4.0	0.36	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Carbon disulfide	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Carbon tetrachloride	0.38	U	4.0	0.38	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Chlorobenzene	0.52	U	4.0	0.52	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Dibromochloromethane	0.51	U	4.0	0.51	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Chloroethane	0.89	U	4.0	0.89	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Chloroform	0.24	U	4.0	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Chloromethane	0.24	U	4.0	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
cis-1,2-Dichloroethene	0.51	U	4.0	0.51	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Cyclohexane	0.55	U	4.0	0.55	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Bromodichloromethane	0.53	U	4.0	0.53	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Dichlorodifluoromethane	0.33	U	4.0	0.33	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Ethylbenzene	0.27	U	4.0	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
1,2-Dibromoethane	0.51	U	4.0	0.51	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Isopropylbenzene	0.60	U	4.0	0.60	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Methyl acetate	2.4	U	20	2.4	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Methyl tert-butyl ether	0.39	U	4.0	0.39	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Methylcyclohexane	0.60	U	4.0	0.60	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Methylene Chloride	1.8	U	4.0	1.8	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Naphthalene	0.53	U	4.0	0.53	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
n-Butylbenzene	0.34	U	4.0	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
N-Propylbenzene	0.32	U	4.0	0.32	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
sec-Butylbenzene	0.34	U	4.0	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Tetrachloroethene	0.53	U	4.0	0.53	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Toluene	0.30	U	4.0	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
trans-1,2-Dichloroethene	0.41	U	4.0	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
trans-1,3-Dichloropropene	1.7	U	4.0	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1

Client Sample ID: SO-12656942-KP-121024-021

Lab Sample ID: 480-226170-21

Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 76.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.87	U	4.0	0.87	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Trichlorofluoromethane	0.37	U	4.0	0.37	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Vinyl chloride	0.48	U	4.0	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Xylenes, Total	0.66	U	7.9	0.66	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
cis-1,3-Dichloropropene	0.57	U	4.0	0.57	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
Styrene	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1
tert-Butylbenzene	0.41	U	4.0	0.41	ug/Kg	☼	12/11/24 10:00	12/11/24 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*12/11/24 10:00*	*12/11/24 23:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*12/11/24 10:00*	*12/11/24 23:28*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*12/11/24 10:00*	*12/11/24 23:28*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*12/11/24 10:00*	*12/11/24 23:28*	*1*

Client Sample ID: SO-12656942-KP-121024-007

Lab Sample ID: 480-226170-22

Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Matrix: Solid
Percent Solids: 75.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.27	U	3.7	0.27	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,1,2,2-Tetrachloroethane	0.61	U	3.7	0.61	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.85	U	3.7	0.85	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,1,2-Trichloroethane	0.49	U	3.7	0.49	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,1-Dichloroethane	0.46	U	3.7	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,1-Dichloroethene	0.46	U	3.7	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2,4-Trichlorobenzene	0.23	U	3.7	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2,4-Trimethylbenzene	0.72	U	3.7	0.72	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2-Dibromo-3-Chloropropane	1.9	U	3.7	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2-Dichlorobenzene	0.29	U	3.7	0.29	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2-Dichloroethane	0.19	U	3.7	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2-Dichloropropane	1.9	U	3.7	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,3,5-Trimethylbenzene	0.24	U	3.7	0.24	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,3-Dichlorobenzene	0.19	U	3.7	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,4-Dichlorobenzene	0.52	U	3.7	0.52	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
2-Butanone (MEK)	**27**		19	1.4	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
2-Hexanone	1.9	U	19	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
4-Isopropyltoluene	**0.30**	**J**	3.7	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
4-Methyl-2-pentanone (MIBK)	1.2	U	19	1.2	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Acetone	**140**		19	3.2	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Benzene	0.18	U	3.7	0.18	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Bromoform	1.9	U	3.7	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Bromomethane	0.34	U	3.7	0.34	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Carbon disulfide	1.9	U	3.7	1.9	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Carbon tetrachloride	0.36	U	3.7	0.36	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Chlorobenzene	0.49	U	3.7	0.49	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Dibromochloromethane	0.48	U	3.7	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Chloroethane	0.85	U	3.7	0.85	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Chloroform	0.23	U	3.7	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Chloromethane	0.23	U	3.7	0.23	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1

Client Sample ID: SO-12656942-KP-121024-007
Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-22
Matrix: Solid
Percent Solids: 75.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.48	U	3.7	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Cyclohexane	0.52	U	3.7	0.52	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Bromodichloromethane	0.50	U	3.7	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Dichlorodifluoromethane	0.31	U	3.7	0.31	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Ethylbenzene	0.26	U	3.7	0.26	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
1,2-Dibromoethane	0.48	U	3.7	0.48	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Isopropylbenzene	0.57	U	3.7	0.57	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Methyl acetate	2.3	U	19	2.3	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Methyl tert-butyl ether	0.37	U	3.7	0.37	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Methylcyclohexane	0.57	U	3.7	0.57	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Methylene Chloride	**1.9**	**J**	3.7	1.7	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Naphthalene	0.50	U	3.7	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
n-Butylbenzene	0.33	U	3.7	0.33	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
N-Propylbenzene	0.30	U	3.7	0.30	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
sec-Butylbenzene	0.33	U	3.7	0.33	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Tetrachloroethene	0.50	U	3.7	0.50	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Toluene	0.28	U	3.7	0.28	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
trans-1,2-Dichloroethene	0.39	U	3.7	0.39	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
trans-1,3-Dichloropropene	1.6	U	3.7	1.6	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Trichloroethene	0.82	U	3.7	0.82	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Trichlorofluoromethane	0.35	U	3.7	0.35	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Vinyl chloride	0.46	U	3.7	0.46	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Xylenes, Total	0.63	U	7.5	0.63	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
cis-1,3-Dichloropropene	0.54	U	3.7	0.54	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
Styrene	0.19	U	3.7	0.19	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1
tert-Butylbenzene	0.39	U	3.7	0.39	ug/Kg	☼	12/11/24 10:00	12/11/24 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*12/11/24 10:00*	*12/11/24 23:55*	*1*
4-Bromofluorobenzene (Surr)	*85*		*72 - 126*	*12/11/24 10:00*	*12/11/24 23:55*	*1*
Toluene-d8 (Surr)	*110*		*71 - 125*	*12/11/24 10:00*	*12/11/24 23:55*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*12/11/24 10:00*	*12/11/24 23:55*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	33	U	220	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
bis (2-chloroisopropyl) ether	45	U	220	45	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4,5-Trichlorophenol	60	U	220	60	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4,6-Trichlorophenol	45	U	220	45	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4-Dichlorophenol	24	U	220	24	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4-Dimethylphenol	54	U	220	54	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4-Dinitrophenol	1000	U	2200	1000	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,4-Dinitrotoluene	46	U	220	46	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2,6-Dinitrotoluene	26	U	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2-Chloronaphthalene	37	U	220	37	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
1,4-Dioxane	72	U	130	72	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2-Chlorophenol	41	U	430	41	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2-Methylphenol	26	U	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2-Methylnaphthalene	45	U	220	45	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
2-Nitroaniline	33	U	430	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1

Client Sample ID: SO-12656942-KP-121024-007
Date Collected: 12/10/24 15:45
Date Received: 12/10/24 17:05

Lab Sample ID: 480-226170-22
Matrix: Solid
Percent Solids: 75.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	63	U	220	63	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
3,3'-Dichlorobenzidine	260	U	430	260	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
3-Nitroaniline	62	U	430	62	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4,6-Dinitro-2-methylphenol	220	U	430	220	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Bromophenyl phenyl ether	31	U	220	31	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Chloro-3-methylphenol	55	U	220	55	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Chloroaniline	55	U	220	55	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Chlorophenyl phenyl ether	28	U	220	28	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Methylphenol	26	U	430	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Nitroaniline	120	U	430	120	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
4-Nitrophenol	160	U	430	160	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Acenaphthene	33	U	220	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Acenaphthylene	**54**	**J**	220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Acetophenone	30	U	220	30	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Anthracene	**120**	**J**	220	55	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Atrazine	77	U	220	77	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzaldehyde	180	U	220	180	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzo[a]anthracene	**540**		220	22	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzo[a]pyrene	**310**		220	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzo[b]fluoranthene	**430**		220	35	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzo[g,h,i]perylene	**180**	**J**	220	24	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Benzo[k]fluoranthene	**240**		220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Bis(2-chloroethoxy)methane	47	U	220	47	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Bis(2-chloroethyl)ether	29	U	220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Bis(2-ethylhexyl) phthalate	76	U	220	76	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Butyl benzyl phthalate	37	U	220	37	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Caprolactam	67	U	220	67	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Carbazole	**82**	**J**	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Chrysene	**500**		220	50	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Dibenz(a,h)anthracene	**47**	**J**	220	39	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Di-n-butyl phthalate	38	U	220	38	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Di-n-octyl phthalate	26	U	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Dibenzofuran	26	U	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Diethyl phthalate	29	U	220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Dimethyl phthalate	26	U	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Fluoranthene	**1300**		220	24	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Fluorene	**30**	**J**	220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Hexachlorobenzene	30	U	220	30	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Hexachlorobutadiene	33	U	220	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Hexachlorocyclopentadiene	30	U	220	30	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Hexachloroethane	29	U	220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Indeno[1,2,3-cd]pyrene	**150**	**J**	220	28	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Isophorone	47	U	220	47	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
N-Nitrosodi-n-propylamine	38	U	220	38	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
N-Nitrosodiphenylamine	180	U	220	180	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Naphthalene	**40**	**J**	220	29	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Nitrobenzene	25	U	220	25	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Pentachlorophenol	220	U	430	220	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Phenanthrene	**410**		220	33	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1

Client Sample ID: SO-12656942-KP-121024-007

Lab Sample ID: 480-226170-22

Date Collected: 12/10/24 15:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 75.7

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	34	U	220	34	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1
Pyrene	**1000**		220	26	ug/Kg	☼	12/11/24 13:49	12/12/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*40 - 121*	*12/11/24 13:49*	*12/12/24 18:14*	*1*
Phenol-d5 (Surr)	*81*		*41 - 120*	*12/11/24 13:49*	*12/12/24 18:14*	*1*
p-Terphenyl-d14 (Surr)	*89*		*46 - 143*	*12/11/24 13:49*	*12/12/24 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*105*		*26 - 143*	*12/11/24 13:49*	*12/12/24 18:14*	*1*
2-Fluorobiphenyl (Surr)	*83*		*50 - 121*	*12/11/24 13:49*	*12/12/24 18:14*	*1*
2-Fluorophenol (Surr)	*75*		*36 - 120*	*12/11/24 13:49*	*12/12/24 18:14*	*1*

Client Sample ID: SO-12656942-KP-121024-008

Lab Sample ID: 480-226170-23

Date Collected: 12/10/24 15:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 77.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19000**		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Antimony	0.70	U	20	0.70	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Arsenic	**8.0**		2.6	1.2	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Barium	**120**		0.66	0.19	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Beryllium	**0.81**		0.26	0.053	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Cadmium	**0.74**		0.26	0.093	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Calcium	**24000**		66	36	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Chromium	**22**		0.66	0.48	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Cobalt	**12**		0.66	0.13	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Copper	**46**	**^5+**	1.3	0.76	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Iron	**31000**		13	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Lead	**150**		1.3	0.61	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Magnesium	**12000**		26	11	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Manganese	**2400**		1.3	0.37	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Nickel	**19**		6.6	0.33	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Potassium	**3900**		40	32	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Selenium	**1.7**	**J**	5.3	1.1	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Silver	**0.50**	**J ^5-**	0.79	0.26	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Sodium	**1600**		190	81	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Thallium	**1.0**	**J**	7.9	1.0	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Vanadium	**37**		0.66	0.17	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1
Zinc	**200**	**^5-**	2.6	1.4	mg/Kg	☼	12/11/24 15:07	12/12/24 12:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.026	0.0060	mg/Kg	☼	12/13/24 09:11	12/13/24 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.62	U F1	1.3	0.62	mg/Kg	☼	12/11/24 11:55	12/11/24 17:39	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-226170-1	SO-12656942-KP-121024-001	108	99	101	110
480-226170-1 MS	SO-12656942-KP-121024-001	92	96	103	99
480-226170-1 MSD	SO-12656942-KP-121024-001	87	93	103	93
480-226170-4	SO-12656942-KP-121024-003	105	85	113	107
480-226170-6	SO-12656942-KP-121024-005	100	95	104	104
480-226170-7	SO-12656942-KP-121024-029	103	95	103	102
480-226170-11	SO-12656942-KP-121024-017	104	83	109	105
480-226170-21	SO-12656942-KP-121024-021	106	96	101	102
480-226170-22	SO-12656942-KP-121024-007	105	85	110	106
LCS 480-735053/1-A	Lab Control Sample	100	100	102	105
LCS 480-735172/1-A	Lab Control Sample	98	98	100	99
LCSD 480-735172/5-A	Lab Control Sample Dup	101	97	100	100
MB 480-735053/2-A	Method Blank	100	98	100	102
MB 480-735172/2-A	Method Blank	101	99	100	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(40-121)	(41-120)	(46-143)	(26-143)	(50-121)	(36-120)
480-226170-1	SO-12656942-KP-121024-001	83	85	93	97	87	81
480-226170-1 MS	SO-12656942-KP-121024-001	93	92	99	115	99	89
480-226170-1 MSD	SO-12656942-KP-121024-001	93	88	96	110	95	85
480-226170-4	SO-12656942-KP-121024-003	82	80	87	68	85	78
480-226170-4 - DL	SO-12656942-KP-121024-003	80	79	90	60	83	74
480-226170-6	SO-12656942-KP-121024-005	78	77	79	106	84	73
480-226170-8	SO-12656942-KP-121024-030	83	82	82	101	84	81
480-226170-12	SO-12656942-KP-121024-018	80	74	85	97	80	75
480-226170-20	SO-12656942-KP-121024-022	79	72	84	86	80	74
480-226170-22	SO-12656942-KP-121024-007	84	81	89	105	83	75
LCS 480-735028/2-A	Lab Control Sample	89	83	95	111	92	82
MB 480-735028/1-A	Method Blank	89	89	99	100	92	87

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-226170-3	SO-12656942-KP-121024-013	87	87	74	80
480-226170-15	SO-12656942-KP-121024-019	92	145 S1+	74	73
480-226170-17	SO-12656942-KP-121024-015	86	98	74	75
480-226170-18	SO-12656942-KP-121024-032	96	99	81	81
LCS 480-735068/2-A	Lab Control Sample	88	84	72	72
MB 480-735068/1-A	Method Blank	87	87	73	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-226170-3	SO-12656942-KP-121024-013	84	82	80	87
480-226170-15	SO-12656942-KP-121024-019	105	102	114	79
480-226170-17	SO-12656942-KP-121024-015	100	99	98	102
480-226170-18	SO-12656942-KP-121024-032	92	91	90	95
LCS 480-735069/2-A	Lab Control Sample	140	127	141	147
MB 480-735069/1-A	Method Blank	115	111	124	127

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8151A - Herbicides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(28-129)	(28-129)
480-226170-3	SO-12656942-KP-121024-013	70	72
480-226170-15	SO-12656942-KP-121024-019	69	76
480-226170-17	SO-12656942-KP-121024-015	78	78
480-226170-18	SO-12656942-KP-121024-032	70	74
LCS 480-735007/2-A	Lab Control Sample	77	78
MB 480-735007/1-A	Method Blank	73	75

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-226170-9	SO-12656942-KP-121024-014	90.0	101	79.8	89.1	89.7	88.6	84.3	98.7
480-226170-10	SO-12656942-KP-121024-033	89.5	102	80.9	95.5	88.8	93.7	84.0	99.7
480-226170-16	SO-12656942-KP-121024-020	89.1	102	81.8	94.6	94.9	93.6	87.2	100
480-226170-16 DU	SO-12656942-KP-121024-020	82.4	94.5	77.7	85.7	87.0	89.8	78.1	87.5
480-226170-19	SO-12656942-KP-121024-016	83.8	99.5	81.9	92.6	84.7	87.8	81.1	85.8
LCS 240-638644/3-A	Lab Control Sample	85.9	101	87.6	95.0	95.7	95.0	86.0	95.9
LLCS 240-638644/2-A	Lab Control Sample	85.9	101	84.4	96.1	90.9	98.5	89.8	88.7
MB 240-638644/1-A	Method Blank	87.7	99.4	85.7	98.1	92.8	94.7	83.0	97.6

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS	M242FTS
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-226170-9	SO-12656942-KP-121024-014	109	91.7	87.4	71.3	75.6	73.6	113	98.2
480-226170-10	SO-12656942-KP-121024-033	117	94.6	93.6	76.5	97.1	90.2	135	94.8
480-226170-16	SO-12656942-KP-121024-020	113	94.8	91.4	78.4	80.5	79.0	135	101
480-226170-16 DU	SO-12656942-KP-121024-020	75.0	89.5	85.3	73.1	62.3	67.6	93.4	84.9
480-226170-19	SO-12656942-KP-121024-016	86.2	87.2	85.2	70.7	65.2	56.9	91.4	86.8
LCS 240-638644/3-A	Lab Control Sample	82.4	95.1	92.1	77.3	65.9	76.3	124	95.2
LLCS 240-638644/2-A	Lab Control Sample	75.8	93.8	92.1	76.7	63.9	73.7	120	94.4
MB 240-638644/1-A	Method Blank	74.1	97.1	93.0	77.8	64.5	69.4	122	88.8

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA	PFDoDA
Lab Sample ID	Client Sample ID	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)	(20-150)
480-226170-9	SO-12656942-KP-121024-014	95.9	108	89.5	61.6	60.7	68.3	80.7	94.2
480-226170-10	SO-12656942-KP-121024-033	101	130	93.2	111	172 *5+	105	112	113
480-226170-16	SO-12656942-KP-121024-020	102	107	93.3	69.6	72.9	77.0	95.8	101
480-226170-16 DU	SO-12656942-KP-121024-020	91.1	91.6	86.1	61.3	58.9	68.4	74.4	81.9
480-226170-19	SO-12656942-KP-121024-016	90.3	95.3	88.4	61.1	58.6	72.6	80.7	81.3
LCS 240-638644/3-A	Lab Control Sample	101	95.5	93.4	64.2	59.5	62.7	67.9	84.5
LLCS 240-638644/2-A	Lab Control Sample	101	97.7	93.8	62.9	59.2	62.4	69.4	88.2
MB 240-638644/1-A	Method Blank	102	104	95.3	61.2	56.2	59.7	65.9	84.3

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: GHD Services Inc.
Job ID: 480-226170-1
Project/Site: 12656942, Jenesis

M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-735053/2-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.36	U	5.0	0.36	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2,2-Tetrachloroethane	0.81	U	5.0	0.81	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2-Trichloroethane	0.65	U	5.0	0.65	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1-Dichloroethane	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1-Dichloroethene	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2,4-Trichlorobenzene	0.30	U	5.0	0.30	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2,4-Trimethylbenzene	0.96	U	5.0	0.96	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichlorobenzene	0.39	U	5.0	0.39	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichloroethane	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichloropropane	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,3,5-Trimethylbenzene	0.32	U	5.0	0.32	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,3-Dichlorobenzene	0.26	U	5.0	0.26	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,4-Dichlorobenzene	0.70	U	5.0	0.70	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
2-Butanone (MEK)	1.8	U	25	1.8	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
2-Hexanone	2.5	U	25	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
4-Isopropyltoluene	0.40	U	5.0	0.40	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
4-Methyl-2-pentanone (MIBK)	1.6	U	25	1.6	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Acetone	4.2	U	25	4.2	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Benzene	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromoform	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromomethane	0.45	U	5.0	0.45	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Carbon disulfide	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Carbon tetrachloride	0.48	U	5.0	0.48	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chlorobenzene	0.66	U	5.0	0.66	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Dibromochloromethane	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloroethane	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloroform	0.323	J	5.0	0.31	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloromethane	0.30	U	5.0	0.30	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
cis-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Cyclohexane	0.70	U	5.0	0.70	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromodichloromethane	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Dichlorodifluoromethane	0.41	U	5.0	0.41	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Ethylbenzene	0.35	U	5.0	0.35	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dibromoethane	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Isopropylbenzene	0.75	U	5.0	0.75	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methyl acetate	3.0	U	25	3.0	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methyl tert-butyl ether	0.49	U	5.0	0.49	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methylcyclohexane	0.76	U	5.0	0.76	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methylene Chloride	2.3	U	5.0	2.3	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Naphthalene	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
n-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
N-Propylbenzene	0.40	U	5.0	0.40	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
sec-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Tetrachloroethene	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Toluene	0.38	U	5.0	0.38	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
trans-1,2-Dichloroethene	0.52	U	5.0	0.52	ug/Kg		12/11/24 16:31	12/11/24 20:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-735053/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735054 — **Prep Batch: 735053**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	2.2	U	5.0	2.2	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Trichloroethene	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Trichlorofluoromethane	0.47	U	5.0	0.47	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Vinyl chloride	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Xylenes, Total	0.84	U	10	0.84	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
cis-1,3-Dichloropropene	0.72	U	5.0	0.72	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Styrene	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
tert-Butylbenzene	0.52	U	5.0	0.52	ug/Kg		12/11/24 16:31	12/11/24 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*12/11/24 16:31*	*12/11/24 20:21*	*1*

Lab Sample ID: LCS 480-735053/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735054 — **Prep Batch: 735053**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/Kg		95	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	46.3		ug/Kg		93	60 - 140
1,1,2-Trichloroethane	50.0	46.2		ug/Kg		92	78 - 122
1,1-Dichloroethane	50.0	46.4		ug/Kg		93	73 - 126
1,1-Dichloroethene	50.0	45.4		ug/Kg		91	59 - 125
1,2,4-Trichlorobenzene	50.0	48.2		ug/Kg		96	64 - 120
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/Kg		95	63 - 124
1,2-Dichlorobenzene	50.0	45.8		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	47.0		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	46.7		ug/Kg		93	75 - 124
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	74 - 120
1,3-Dichlorobenzene	50.0	45.2		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.7		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	250		ug/Kg		100	70 - 134
2-Hexanone	250	234		ug/Kg		93	59 - 130
4-Isopropyltoluene	50.0	46.9		ug/Kg		94	74 - 120
4-Methyl-2-pentanone (MIBK)	250	238		ug/Kg		95	65 - 133
Acetone	250	259		ug/Kg		104	61 - 137
Benzene	50.0	46.3		ug/Kg		93	79 - 127
Bromoform	50.0	46.8		ug/Kg		94	68 - 126
Bromomethane	50.0	49.6		ug/Kg		99	37 - 149
Carbon disulfide	50.0	44.4		ug/Kg		89	64 - 131
Carbon tetrachloride	50.0	46.0		ug/Kg		92	75 - 135
Chlorobenzene	50.0	45.0		ug/Kg		90	76 - 124
Dibromochloromethane	50.0	48.1		ug/Kg		96	76 - 125
Chloroethane	50.0	49.6		ug/Kg		99	69 - 135

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-735053/1-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	46.2		ug/Kg		92	80 - 120
Chloromethane	50.0	45.1		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	81 - 120
Cyclohexane	50.0	45.5		ug/Kg		91	65 - 120
Bromodichloromethane	50.0	47.8		ug/Kg		96	80 - 122
Dichlorodifluoromethane	50.0	40.3		ug/Kg		81	57 - 142
Ethylbenzene	50.0	45.6		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	78 - 120
Isopropylbenzene	50.0	47.2		ug/Kg		94	72 - 120
Methyl acetate	100	96.8		ug/Kg		97	55 - 136
Methyl tert-butyl ether	50.0	49.3		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	44.8		ug/Kg		90	60 - 140
Methylene Chloride	50.0	49.5		ug/Kg		99	61 - 127
Naphthalene	50.0	48.8		ug/Kg		98	38 - 137
n-Butylbenzene	50.0	46.6		ug/Kg		93	70 - 120
N-Propylbenzene	50.0	45.9		ug/Kg		92	70 - 130
sec-Butylbenzene	50.0	47.1		ug/Kg		94	74 - 120
Tetrachloroethene	50.0	44.4		ug/Kg		89	74 - 122
Toluene	50.0	45.1		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	78 - 126
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	73 - 123
Trichloroethene	50.0	45.8		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	65 - 146
Vinyl chloride	50.0	47.7		ug/Kg		95	61 - 133
cis-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	80 - 120
Styrene	50.0	45.3		ug/Kg		91	80 - 120
tert-Butylbenzene	50.0	47.0		ug/Kg		94	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

Lab Sample ID: 480-226170-1 MS
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: SO-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.24	U	32.5	28.6		ug/Kg	☼	88	77 - 121
1,1,2,2-Tetrachloroethane	0.54	U F1	32.5	22.9	F1	ug/Kg	☼	71	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	U	32.5	28.7		ug/Kg	☼	88	60 - 140
1,1,2-Trichloroethane	0.43	U F1	32.5	23.9	F1	ug/Kg	☼	74	78 - 122
1,1-Dichloroethane	0.41	U	32.5	28.6		ug/Kg	☼	88	73 - 126
1,1-Dichloroethene	0.41	U	32.5	29.1		ug/Kg	☼	90	59 - 125
1,2,4-Trichlorobenzene	0.20	U	32.5	24.4		ug/Kg	☼	75	64 - 120
1,2,4-Trimethylbenzene	0.64	U	32.5	28.8		ug/Kg	☼	89	74 - 120
1,2-Dibromo-3-Chloropropane	1.7	U F1	32.5	19.7	F1	ug/Kg	☼	61	63 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-226170-1 MS
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: SO-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.26	U	32.5	25.7		ug/Kg	☼	79	75 - 120
1,2-Dichloroethane	0.17	U	32.5	26.1		ug/Kg	☼	80	77 - 122
1,2-Dichloropropane	1.7	U	32.5	27.8		ug/Kg	☼	86	75 - 124
1,3,5-Trimethylbenzene	0.21	U	32.5	29.4		ug/Kg	☼	91	74 - 120
1,3-Dichlorobenzene	0.17	U	32.5	26.5		ug/Kg	☼	81	74 - 120
1,4-Dichlorobenzene	0.47	U	32.5	25.9		ug/Kg	☼	80	73 - 120
2-Butanone (MEK)	1.2	U F1	163	93.7	F1	ug/Kg	☼	58	70 - 134
2-Hexanone	1.7	U	163	98.8		ug/Kg	☼	61	59 - 130
4-Isopropyltoluene	0.27	U	32.5	28.8		ug/Kg	☼	89	74 - 120
4-Methyl-2-pentanone (MIBK)	1.1	U F1	163	102	F1	ug/Kg	☼	63	65 - 133
Acetone	2.8	U F1	163	94.2	F1	ug/Kg	☼	58	61 - 137
Benzene	0.16	U	32.5	28.5		ug/Kg	☼	88	79 - 127
Bromoform	1.7	U	32.5	22.1		ug/Kg	☼	68	68 - 126
Bromomethane	0.30	U	32.5	32.5		ug/Kg	☼	100	37 - 149
Carbon disulfide	1.7	U	32.5	28.0		ug/Kg	☼	86	64 - 131
Carbon tetrachloride	0.32	U	32.5	28.6		ug/Kg	☼	88	75 - 135
Chlorobenzene	0.44	U	32.5	27.4		ug/Kg	☼	84	76 - 124
Dibromochloromethane	0.43	U	32.5	25.3		ug/Kg	☼	78	76 - 125
Chloroethane	0.75	U	32.5	33.4		ug/Kg	☼	103	69 - 135
Chloroform	0.21	U	32.5	27.9		ug/Kg	☼	86	80 - 120
Chloromethane	0.20	U	32.5	29.0		ug/Kg	☼	89	63 - 127
cis-1,2-Dichloroethene	0.43	U	32.5	28.5		ug/Kg	☼	88	80 - 120
Cyclohexane	0.47	U	32.5	28.5		ug/Kg	☼	88	65 - 120
Bromodichloromethane	0.45	U	32.5	27.4		ug/Kg	☼	84	80 - 122
Dichlorodifluoromethane	0.27	U	32.5	27.3		ug/Kg	☼	84	57 - 142
Ethylbenzene	0.23	U	32.5	28.1		ug/Kg	☼	86	80 - 120
1,2-Dibromoethane	0.43	U F1	32.5	23.8	F1	ug/Kg	☼	73	78 - 120
Isopropylbenzene	0.50	U	32.5	29.7		ug/Kg	☼	91	72 - 120
Methyl acetate	2.0	U	65.0	39.4		ug/Kg	☼	61	55 - 136
Methyl tert-butyl ether	0.33	U	32.5	24.1		ug/Kg	☼	74	63 - 125
Methylcyclohexane	0.51	U	32.5	27.3		ug/Kg	☼	84	60 - 140
Methylene Chloride	2.0	J	32.5	29.8		ug/Kg	☼	85	61 - 127
Naphthalene	0.45	U	32.5	21.6		ug/Kg	☼	66	38 - 137
n-Butylbenzene	0.29	U	32.5	27.6		ug/Kg	☼	85	70 - 120
N-Propylbenzene	0.27	U	32.5	28.7		ug/Kg	☼	88	70 - 130
sec-Butylbenzene	0.29	U	32.5	29.2		ug/Kg	☼	90	74 - 120
Tetrachloroethene	0.45	U	32.5	27.2		ug/Kg	☼	84	74 - 122
Toluene	0.25	U	32.5	27.9		ug/Kg	☼	86	74 - 128
trans-1,2-Dichloroethene	0.34	U	32.5	28.5		ug/Kg	☼	88	78 - 126
trans-1,3-Dichloropropene	1.5	U	32.5	25.5		ug/Kg	☼	78	73 - 123
Trichloroethene	0.73	U	32.5	28.1		ug/Kg	☼	87	77 - 129
Trichlorofluoromethane	0.31	U	32.5	31.7		ug/Kg	☼	98	65 - 146
Vinyl chloride	0.41	U	32.5	32.2		ug/Kg	☼	99	61 - 133
cis-1,3-Dichloropropene	0.48	U	32.5	27.1		ug/Kg	☼	83	80 - 120
Styrene	0.17	U	32.5	27.0		ug/Kg	☼	83	80 - 120
tert-Butylbenzene	0.35	U	32.5	29.7		ug/Kg	☼	91	73 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-226170-1 MS
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: SO-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735053

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: 480-226170-1 MSD
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: SO-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.24	U	33.1	31.3		ug/Kg	☼	95	77 - 121	9	30
1,1,2,2-Tetrachloroethane	0.54	U F1	33.1	26.2	F1	ug/Kg	☼	79	80 - 120	13	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	U	33.1	30.3		ug/Kg	☼	92	60 - 140	5	30
1,1,2-Trichloroethane	0.43	U F1	33.1	26.3		ug/Kg	☼	79	78 - 122	9	30
1,1-Dichloroethane	0.41	U	33.1	29.8		ug/Kg	☼	90	73 - 126	4	30
1,1-Dichloroethene	0.41	U	33.1	30.8		ug/Kg	☼	93	59 - 125	6	30
1,2,4-Trichlorobenzene	0.20	U	33.1	23.3		ug/Kg	☼	71	64 - 120	4	30
1,2,4-Trimethylbenzene	0.64	U	33.1	31.8		ug/Kg	☼	96	74 - 120	10	30
1,2-Dibromo-3-Chloropropane	1.7	U F1	33.1	22.7		ug/Kg	☼	69	63 - 124	14	30
1,2-Dichlorobenzene	0.26	U	33.1	27.4		ug/Kg	☼	83	75 - 120	6	30
1,2-Dichloroethane	0.17	U	33.1	26.4		ug/Kg	☼	80	77 - 122	1	30
1,2-Dichloropropane	1.7	U	33.1	28.5		ug/Kg	☼	86	75 - 124	2	30
1,3,5-Trimethylbenzene	0.21	U	33.1	32.6		ug/Kg	☼	99	74 - 120	10	30
1,3-Dichlorobenzene	0.17	U	33.1	28.2		ug/Kg	☼	85	74 - 120	6	30
1,4-Dichlorobenzene	0.47	U	33.1	28.1		ug/Kg	☼	85	73 - 120	8	30
2-Butanone (MEK)	1.2	U F1	165	104	F1	ug/Kg	☼	63	70 - 134	10	30
2-Hexanone	1.7	U	165	113		ug/Kg	☼	69	59 - 130	14	30
4-Isopropyltoluene	0.27	U	33.1	32.2		ug/Kg	☼	97	74 - 120	11	30
4-Methyl-2-pentanone (MIBK)	1.1	U F1	165	113		ug/Kg	☼	69	65 - 133	10	30
Acetone	2.8	U F1	165	108		ug/Kg	☼	65	61 - 137	14	30
Benzene	0.16	U	33.1	29.9		ug/Kg	☼	90	79 - 127	5	30
Bromoform	1.7	U	33.1	25.0		ug/Kg	☼	76	68 - 126	12	30
Bromomethane	0.30	U	33.1	34.9		ug/Kg	☼	106	37 - 149	7	30
Carbon disulfide	1.7	U	33.1	30.0		ug/Kg	☼	91	64 - 131	7	30
Carbon tetrachloride	0.32	U	33.1	31.0		ug/Kg	☼	94	75 - 135	8	30
Chlorobenzene	0.44	U	33.1	28.9		ug/Kg	☼	87	76 - 124	5	30
Dibromochloromethane	0.43	U	33.1	27.8		ug/Kg	☼	84	76 - 125	10	30
Chloroethane	0.75	U	33.1	35.5		ug/Kg	☼	107	69 - 135	6	30
Chloroform	0.21	U	33.1	29.1		ug/Kg	☼	88	80 - 120	4	30
Chloromethane	0.20	U	33.1	30.5		ug/Kg	☼	92	63 - 127	5	30
cis-1,2-Dichloroethene	0.43	U	33.1	29.2		ug/Kg	☼	88	80 - 120	3	30
Cyclohexane	0.47	U	33.1	30.7		ug/Kg	☼	93	65 - 120	8	30
Bromodichloromethane	0.45	U	33.1	28.4		ug/Kg	☼	86	80 - 122	4	30
Dichlorodifluoromethane	0.27	U	33.1	28.5		ug/Kg	☼	86	57 - 142	4	30
Ethylbenzene	0.23	U	33.1	30.5		ug/Kg	☼	92	80 - 120	8	30
1,2-Dibromoethane	0.43	U F1	33.1	26.5		ug/Kg	☼	80	78 - 120	10	30
Isopropylbenzene	0.50	U	33.1	33.8		ug/Kg	☼	102	72 - 120	13	30
Methyl acetate	2.0	U	66.2	43.7		ug/Kg	☼	66	55 - 136	11	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-226170-1 MSD — **Client Sample ID: SO-12656942-KP-121024-001**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735054 — **Prep Batch: 735053**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.33	U	33.1	25.3		ug/Kg	☼	77	63 - 125	5	30
Methylcyclohexane	0.51	U	33.1	29.5		ug/Kg	☼	89	60 - 140	8	30
Methylene Chloride	2.0	J	33.1	31.8		ug/Kg	☼	90	61 - 127	6	30
Naphthalene	0.45	U	33.1	22.4		ug/Kg	☼	68	38 - 137	4	30
n-Butylbenzene	0.29	U	33.1	30.7		ug/Kg	☼	93	70 - 120	10	30
N-Propylbenzene	0.27	U	33.1	32.4		ug/Kg	☼	98	70 - 130	12	30
sec-Butylbenzene	0.29	U	33.1	32.8		ug/Kg	☼	99	74 - 120	12	30
Tetrachloroethene	0.45	U	33.1	29.7		ug/Kg	☼	90	74 - 122	9	30
Toluene	0.25	U	33.1	30.6		ug/Kg	☼	92	74 - 128	9	30
trans-1,2-Dichloroethene	0.34	U	33.1	30.6		ug/Kg	☼	93	78 - 126	7	30
trans-1,3-Dichloropropene	1.5	U	33.1	27.0		ug/Kg	☼	82	73 - 123	6	30
Trichloroethene	0.73	U	33.1	29.7		ug/Kg	☼	90	77 - 129	5	30
Trichlorofluoromethane	0.31	U	33.1	34.0		ug/Kg	☼	103	65 - 146	7	30
Vinyl chloride	0.41	U	33.1	34.5		ug/Kg	☼	104	61 - 133	7	30
cis-1,3-Dichloropropene	0.48	U	33.1	28.0		ug/Kg	☼	85	80 - 120	3	30
Styrene	0.17	U	33.1	28.6		ug/Kg	☼	87	80 - 120	6	30
tert-Butylbenzene	0.35	U	33.1	33.9		ug/Kg	☼	103	73 - 120	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*93*		*60 - 140*

Lab Sample ID: MB 480-735172/2-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735174 — **Prep Batch: 735172**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.36	U	5.0	0.36	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,1,2,2-Tetrachloroethane	0.81	U	5.0	0.81	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	5.0	1.1	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,1,2-Trichloroethane	0.65	U	5.0	0.65	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,1-Dichloroethane	0.61	U	5.0	0.61	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,1-Dichloroethene	0.61	U	5.0	0.61	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2,4-Trichlorobenzene	0.30	U	5.0	0.30	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2,4-Trimethylbenzene	0.96	U	5.0	0.96	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2-Dichlorobenzene	0.39	U	5.0	0.39	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2-Dichloroethane	0.25	U	5.0	0.25	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2-Dichloropropane	2.5	U	5.0	2.5	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,3,5-Trimethylbenzene	0.32	U	5.0	0.32	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,3-Dichlorobenzene	0.26	U	5.0	0.26	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,4-Dichlorobenzene	0.70	U	5.0	0.70	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
2-Butanone (MEK)	1.8	U	25	1.8	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
2-Hexanone	2.5	U	25	2.5	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
4-Isopropyltoluene	0.40	U	5.0	0.40	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
4-Methyl-2-pentanone (MIBK)	1.6	U	25	1.6	ug/Kg		12/12/24 15:47	12/12/24 19:27	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-735172/2-A
Matrix: Solid
Analysis Batch: 735174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.2	U	25	4.2	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Benzene	0.25	U	5.0	0.25	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Bromoform	2.5	U	5.0	2.5	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Bromomethane	0.45	U	5.0	0.45	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Carbon disulfide	2.5	U	5.0	2.5	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Carbon tetrachloride	0.48	U	5.0	0.48	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Chlorobenzene	0.66	U	5.0	0.66	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Dibromochloromethane	0.64	U	5.0	0.64	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Chloroethane	1.1	U	5.0	1.1	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Chloroform	0.312	J	5.0	0.31	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Chloromethane	0.30	U	5.0	0.30	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
cis-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Cyclohexane	0.70	U	5.0	0.70	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Bromodichloromethane	0.67	U	5.0	0.67	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Dichlorodifluoromethane	0.41	U	5.0	0.41	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Ethylbenzene	0.35	U	5.0	0.35	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
1,2-Dibromoethane	0.64	U	5.0	0.64	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Isopropylbenzene	0.75	U	5.0	0.75	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Methyl acetate	3.0	U	25	3.0	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Methyl tert-butyl ether	0.49	U	5.0	0.49	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Methylcyclohexane	0.76	U	5.0	0.76	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Methylene Chloride	2.3	U	5.0	2.3	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Naphthalene	0.67	U	5.0	0.67	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
n-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
N-Propylbenzene	0.40	U	5.0	0.40	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
sec-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Tetrachloroethene	0.67	U	5.0	0.67	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Toluene	0.38	U	5.0	0.38	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
trans-1,2-Dichloroethene	0.52	U	5.0	0.52	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
trans-1,3-Dichloropropene	2.2	U	5.0	2.2	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Trichloroethene	1.1	U	5.0	1.1	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Trichlorofluoromethane	0.47	U	5.0	0.47	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Vinyl chloride	0.61	U	5.0	0.61	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Xylenes, Total	0.84	U	10	0.84	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
cis-1,3-Dichloropropene	0.72	U	5.0	0.72	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
Styrene	0.25	U	5.0	0.25	ug/Kg		12/12/24 15:47	12/12/24 19:27	1
tert-Butylbenzene	0.52	U	5.0	0.52	ug/Kg		12/12/24 15:47	12/12/24 19:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*12/12/24 15:47*	*12/12/24 19:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*12/12/24 15:47*	*12/12/24 19:27*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/12/24 15:47*	*12/12/24 19:27*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*12/12/24 15:47*	*12/12/24 19:27*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-735172/1-A
Matrix: Solid
Analysis Batch: 735174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	45.5		ug/Kg		91	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.6		ug/Kg		95	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.3		ug/Kg		81	60 - 140
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	78 - 122
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	73 - 126
1,1-Dichloroethene	50.0	45.0		ug/Kg		90	59 - 125
1,2,4-Trichlorobenzene	50.0	46.4		ug/Kg		93	64 - 120
1,2,4-Trimethylbenzene	50.0	47.4		ug/Kg		95	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/Kg		95	63 - 124
1,2-Dichlorobenzene	50.0	45.7		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	46.7		ug/Kg		93	77 - 122
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	75 - 124
1,3,5-Trimethylbenzene	50.0	48.0		ug/Kg		96	74 - 120
1,3-Dichlorobenzene	50.0	45.8		ug/Kg		92	74 - 120
1,4-Dichlorobenzene	50.0	45.8		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	249		ug/Kg		100	70 - 134
2-Hexanone	250	245		ug/Kg		98	59 - 130
4-Isopropyltoluene	50.0	48.2		ug/Kg		96	74 - 120
4-Methyl-2-pentanone (MIBK)	250	233		ug/Kg		93	65 - 133
Acetone	250	245		ug/Kg		98	61 - 137
Benzene	50.0	46.3		ug/Kg		93	79 - 127
Bromoform	50.0	47.8		ug/Kg		96	68 - 126
Bromomethane	50.0	48.2		ug/Kg		96	37 - 149
Carbon disulfide	50.0	43.5		ug/Kg		87	64 - 131
Carbon tetrachloride	50.0	45.4		ug/Kg		91	75 - 135
Chlorobenzene	50.0	45.5		ug/Kg		91	76 - 124
Dibromochloromethane	50.0	48.0		ug/Kg		96	76 - 125
Chloroethane	50.0	49.0		ug/Kg		98	69 - 135
Chloroform	50.0	45.3		ug/Kg		91	80 - 120
Chloromethane	50.0	42.6		ug/Kg		85	63 - 127
cis-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	81 - 120
Cyclohexane	50.0	43.7		ug/Kg		87	65 - 120
Bromodichloromethane	50.0	47.7		ug/Kg		95	80 - 122
Dichlorodifluoromethane	50.0	38.1		ug/Kg		76	57 - 142
Ethylbenzene	50.0	45.7		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	48.0		ug/Kg		96	78 - 120
Isopropylbenzene	50.0	47.6		ug/Kg		95	72 - 120
Methyl acetate	100	93.5		ug/Kg		93	55 - 136
Methyl tert-butyl ether	50.0	45.3		ug/Kg		91	63 - 125
Methylcyclohexane	50.0	44.6		ug/Kg		89	60 - 140
Methylene Chloride	50.0	47.4		ug/Kg		95	61 - 127
Naphthalene	50.0	46.3		ug/Kg		93	38 - 137
n-Butylbenzene	50.0	47.6		ug/Kg		95	70 - 120
N-Propylbenzene	50.0	47.0		ug/Kg		94	70 - 130
sec-Butylbenzene	50.0	48.1		ug/Kg		96	74 - 120
Tetrachloroethene	50.0	45.0		ug/Kg		90	74 - 122
Toluene	50.0	45.5		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	45.4		ug/Kg		91	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-735172/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735174 — **Prep Batch: 735172**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	73 - 123
Trichloroethene	50.0	46.4		ug/Kg		93	77 - 129
Trichlorofluoromethane	50.0	48.2		ug/Kg		96	65 - 146
Vinyl chloride	50.0	46.6		ug/Kg		93	61 - 133
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	80 - 120
Styrene	50.0	46.2		ug/Kg		92	80 - 120
tert-Butylbenzene	50.0	49.6		ug/Kg		99	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Toluene-d8 (Surr)	*100*		*71 - 125*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: LCSD 480-735172/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735174 — **Prep Batch: 735172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	43.3		ug/Kg		87	77 - 121	5	20
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/Kg		95	80 - 120	0	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	42.3		ug/Kg		85	60 - 140	5	20
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	78 - 122	5	20
1,1-Dichloroethane	50.0	43.5		ug/Kg		87	73 - 126	5	20
1,1-Dichloroethene	50.0	41.7		ug/Kg		83	59 - 125	8	20
1,2,4-Trichlorobenzene	50.0	44.1		ug/Kg		88	64 - 120	5	20
1,2,4-Trimethylbenzene	50.0	45.5		ug/Kg		91	74 - 120	4	20
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/Kg		99	63 - 124	4	20
1,2-Dichlorobenzene	50.0	44.2		ug/Kg		88	75 - 120	4	20
1,2-Dichloroethane	50.0	45.2		ug/Kg		90	77 - 122	3	20
1,2-Dichloropropane	50.0	44.2		ug/Kg		88	75 - 124	6	20
1,3,5-Trimethylbenzene	50.0	45.3		ug/Kg		91	74 - 120	6	20
1,3-Dichlorobenzene	50.0	43.0		ug/Kg		86	74 - 120	6	20
1,4-Dichlorobenzene	50.0	42.9		ug/Kg		86	73 - 120	6	20
2-Butanone (MEK)	250	251		ug/Kg		100	70 - 134	0	20
2-Hexanone	250	229		ug/Kg		92	59 - 130	7	20
4-Isopropyltoluene	50.0	44.4		ug/Kg		89	74 - 120	8	20
4-Methyl-2-pentanone (MIBK)	250	233		ug/Kg		93	65 - 133	0	20
Acetone	250	243		ug/Kg		97	61 - 137	1	20
Benzene	50.0	43.2		ug/Kg		86	79 - 127	7	20
Bromoform	50.0	45.8		ug/Kg		92	68 - 126	4	20
Bromomethane	50.0	46.6		ug/Kg		93	37 - 149	3	20
Carbon disulfide	50.0	40.9		ug/Kg		82	64 - 131	6	20
Carbon tetrachloride	50.0	43.0		ug/Kg		86	75 - 135	5	20
Chlorobenzene	50.0	43.7		ug/Kg		87	76 - 124	4	20
Dibromochloromethane	50.0	46.2		ug/Kg		92	76 - 125	4	20
Chloroethane	50.0	47.9		ug/Kg		96	69 - 135	2	20
Chloroform	50.0	43.7		ug/Kg		87	80 - 120	4	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-735172/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735174 — **Prep Batch: 735172**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane	50.0	41.4		ug/Kg		83	63 - 127	3	20
cis-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	81 - 120	5	20
Cyclohexane	50.0	42.2		ug/Kg		84	65 - 120	3	20
Bromodichloromethane	50.0	44.9		ug/Kg		90	80 - 122	6	20
Dichlorodifluoromethane	50.0	36.3		ug/Kg		73	57 - 142	5	20
Ethylbenzene	50.0	42.7		ug/Kg		85	80 - 120	7	20
1,2-Dibromoethane	50.0	45.9		ug/Kg		92	78 - 120	4	20
Isopropylbenzene	50.0	45.2		ug/Kg		90	72 - 120	5	20
Methyl acetate	100	95.3		ug/Kg		95	55 - 136	2	20
Methyl tert-butyl ether	50.0	46.6		ug/Kg		93	63 - 125	3	20
Methylcyclohexane	50.0	41.9		ug/Kg		84	60 - 140	6	20
Methylene Chloride	50.0	47.6		ug/Kg		95	61 - 127	0	20
Naphthalene	50.0	47.6		ug/Kg		95	38 - 137	3	20
n-Butylbenzene	50.0	43.7		ug/Kg		87	70 - 120	9	20
N-Propylbenzene	50.0	43.7		ug/Kg		87	70 - 130	7	20
sec-Butylbenzene	50.0	45.0		ug/Kg		90	74 - 120	7	20
Tetrachloroethene	50.0	40.7		ug/Kg		81	74 - 122	10	20
Toluene	50.0	42.5		ug/Kg		85	74 - 128	7	20
trans-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	78 - 126	5	20
trans-1,3-Dichloropropene	50.0	46.1		ug/Kg		92	73 - 123	8	20
Trichloroethene	50.0	42.7		ug/Kg		85	77 - 129	8	20
Trichlorofluoromethane	50.0	45.4		ug/Kg		91	65 - 146	6	20
Vinyl chloride	50.0	44.9		ug/Kg		90	61 - 133	4	20
cis-1,3-Dichloropropene	50.0	45.5		ug/Kg		91	80 - 120	10	20
Styrene	50.0	42.8		ug/Kg		86	80 - 120	7	20
tert-Butylbenzene	50.0	45.6		ug/Kg		91	73 - 120	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*100*		*71 - 125*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

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

Lab Sample ID: MB 480-735028/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	25	U	170	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
bis (2-chloroisopropyl) ether	34	U	170	34	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4,5-Trichlorophenol	46	U	170	46	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4,6-Trichlorophenol	34	U	170	34	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4-Dichlorophenol	18	U	170	18	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4-Dimethylphenol	41	U	170	41	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4-Dinitrophenol	780	U	1700	780	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,4-Dinitrotoluene	35	U	170	35	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2,6-Dinitrotoluene	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1

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

Lab Sample ID: MB 480-735028/1-A
Matrix: Solid
Analysis Batch: 735095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	28	U	170	28	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
1,4-Dioxane	55	U	100	55	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2-Chlorophenol	31	U	330	31	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2-Methylphenol	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2-Methylnaphthalene	34	U	170	34	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2-Nitroaniline	25	U	330	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
2-Nitrophenol	48	U	170	48	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
3,3'-Dichlorobenzidine	200	U	330	200	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
3-Nitroaniline	47	U	330	47	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4,6-Dinitro-2-methylphenol	170	U	330	170	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Bromophenyl phenyl ether	24	U	170	24	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Chloro-3-methylphenol	42	U	170	42	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Chloroaniline	42	U	170	42	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Chlorophenyl phenyl ether	21	U	170	21	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Methylphenol	20	U	330	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Nitroaniline	89	U	330	89	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
4-Nitrophenol	120	U	330	120	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Acenaphthene	25	U	170	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Acenaphthylene	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Acetophenone	23	U	170	23	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Anthracene	42	U	170	42	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Atrazine	59	U	170	59	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzaldehyde	140	U	170	140	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzo[a]anthracene	17	U	170	17	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzo[a]pyrene	25	U	170	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzo[b]fluoranthene	27	U	170	27	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzo[g,h,i]perylene	18	U	170	18	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Benzo[k]fluoranthene	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Bis(2-chloroethoxy)methane	36	U	170	36	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Bis(2-chloroethyl)ether	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Bis(2-ethylhexyl) phthalate	58	U	170	58	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Butyl benzyl phthalate	28	U	170	28	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Caprolactam	51	U	170	51	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Carbazole	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Chrysene	38	U	170	38	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Dibenz(a,h)anthracene	30	U	170	30	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Di-n-butyl phthalate	29	U	170	29	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Di-n-octyl phthalate	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Dibenzofuran	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Diethyl phthalate	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Dimethyl phthalate	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Fluoranthene	18	U	170	18	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Fluorene	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Hexachlorobenzene	23	U	170	23	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Hexachlorobutadiene	25	U	170	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Hexachlorocyclopentadiene	23	U	170	23	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Hexachloroethane	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Indeno[1,2,3-cd]pyrene	21	U	170	21	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Isophorone	36	U	170	36	ug/Kg		12/11/24 13:49	12/12/24 12:31	1

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

Lab Sample ID: MB 480-735028/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	29	U	170	29	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
N-Nitrosodiphenylamine	140	U	170	140	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Naphthalene	22	U	170	22	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Nitrobenzene	19	U	170	19	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Pentachlorophenol	170	U	330	170	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Phenanthrene	25	U	170	25	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Phenol	26	U	170	26	ug/Kg		12/11/24 13:49	12/12/24 12:31	1
Pyrene	20	U	170	20	ug/Kg		12/11/24 13:49	12/12/24 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*89*		*40 - 121*	*12/11/24 13:49*	*12/12/24 12:31*	*1*
Phenol-d5 (Surr)	*89*		*41 - 120*	*12/11/24 13:49*	*12/12/24 12:31*	*1*
p-Terphenyl-d14 (Surr)	*99*		*46 - 143*	*12/11/24 13:49*	*12/12/24 12:31*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 143*	*12/11/24 13:49*	*12/12/24 12:31*	*1*
2-Fluorobiphenyl (Surr)	*92*		*50 - 121*	*12/11/24 13:49*	*12/12/24 12:31*	*1*
2-Fluorophenol (Surr)	*87*		*36 - 120*	*12/11/24 13:49*	*12/12/24 12:31*	*1*

Lab Sample ID: LCS 480-735028/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1170		ug/Kg		87	59 - 120
bis (2-chloroisopropyl) ether	1330	998		ug/Kg		75	44 - 120
2,4,5-Trichlorophenol	1330	1310		ug/Kg		98	59 - 126
2,4,6-Trichlorophenol	1330	1330		ug/Kg		100	59 - 123
2,4-Dichlorophenol	1330	1290		ug/Kg		97	61 - 120
2,4-Dimethylphenol	1330	1310		ug/Kg		99	59 - 120
2,4-Dinitrophenol	2670	3100		ug/Kg		116	41 - 146
2,4-Dinitrotoluene	1330	1360		ug/Kg		102	63 - 120
2,6-Dinitrotoluene	1330	1340		ug/Kg		101	66 - 120
2-Chloronaphthalene	1330	1180		ug/Kg		88	57 - 120
1,4-Dioxane	1330	615		ug/Kg		46	23 - 120
2-Chlorophenol	1330	1150		ug/Kg		87	53 - 120
2-Methylphenol	1330	1180		ug/Kg		88	54 - 120
2-Methylnaphthalene	1330	1200		ug/Kg		90	59 - 120
2-Nitroaniline	1330	1240		ug/Kg		93	61 - 120
2-Nitrophenol	1330	1300		ug/Kg		98	56 - 120
3,3'-Dichlorobenzidine	1330	1100		ug/Kg		83	54 - 120
3-Nitroaniline	1330	1060		ug/Kg		80	48 - 120
4,6-Dinitro-2-methylphenol	2670	3020		ug/Kg		113	49 - 122
4-Bromophenyl phenyl ether	1330	1340		ug/Kg		101	58 - 120
4-Chloro-3-methylphenol	1330	1330		ug/Kg		100	61 - 120
4-Chloroaniline	1330	1090		ug/Kg		82	38 - 120
4-Chlorophenyl phenyl ether	1330	1270		ug/Kg		95	63 - 124
4-Methylphenol	1330	1150		ug/Kg		87	55 - 120
4-Nitroaniline	1330	1270		ug/Kg		96	56 - 120
4-Nitrophenol	2670	2770		ug/Kg		104	43 - 147

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

Lab Sample ID: LCS 480-735028/2-A
Matrix: Solid
Analysis Batch: 735095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1330	1220		ug/Kg		92	62 - 120
Acenaphthylene	1330	1270		ug/Kg		95	58 - 121
Acetophenone	1330	1160		ug/Kg		87	54 - 120
Anthracene	1330	1320		ug/Kg		99	62 - 120
Atrazine	1330	1360		ug/Kg		102	60 - 127
Benzaldehyde	1330	1220		ug/Kg		91	10 - 150
Benzo[a]anthracene	1330	1340		ug/Kg		101	65 - 120
Benzo[a]pyrene	1330	1360		ug/Kg		102	64 - 120
Benzo[b]fluoranthene	1330	1360		ug/Kg		102	64 - 120
Benzo[g,h,i]perylene	1330	1430		ug/Kg		107	45 - 145
Benzo[k]fluoranthene	1330	1360		ug/Kg		102	65 - 120
Bis(2-chloroethoxy)methane	1330	1130		ug/Kg		85	55 - 120
Bis(2-chloroethyl)ether	1330	1050		ug/Kg		79	45 - 120
Bis(2-ethylhexyl) phthalate	1330	1280		ug/Kg		96	61 - 133
Butyl benzyl phthalate	1330	1310		ug/Kg		98	61 - 129
Caprolactam	1330	1270		ug/Kg		95	47 - 120
Carbazole	1330	1350		ug/Kg		101	65 - 120
Chrysene	1330	1300		ug/Kg		97	64 - 120
Dibenz(a,h)anthracene	1330	1400		ug/Kg		105	54 - 132
Di-n-butyl phthalate	1330	1310		ug/Kg		98	58 - 130
Di-n-octyl phthalate	1330	1350		ug/Kg		102	57 - 133
Dibenzofuran	1330	1230		ug/Kg		92	63 - 120
Diethyl phthalate	1330	1310		ug/Kg		98	66 - 120
Dimethyl phthalate	1330	1310		ug/Kg		98	65 - 124
Fluoranthene	1330	1360		ug/Kg		102	62 - 120
Fluorene	1330	1240		ug/Kg		93	63 - 120
Hexachlorobenzene	1330	1350		ug/Kg		101	60 - 120
Hexachlorobutadiene	1330	1300		ug/Kg		98	45 - 120
Hexachlorocyclopentadiene	1330	1330		ug/Kg		100	47 - 120
Hexachloroethane	1330	1110		ug/Kg		83	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1400		ug/Kg		105	56 - 134
Isophorone	1330	1260		ug/Kg		94	56 - 120
N-Nitrosodi-n-propylamine	1330	1180		ug/Kg		89	52 - 120
N-Nitrosodiphenylamine	1330	1330		ug/Kg		100	51 - 128
Naphthalene	1330	1180		ug/Kg		89	55 - 120
Nitrobenzene	1330	1260		ug/Kg		95	54 - 120
Pentachlorophenol	2670	3100		ug/Kg		116	10 - 120
Phenanthrene	1330	1260		ug/Kg		95	60 - 120
Phenol	1330	1080		ug/Kg		81	53 - 120
Pyrene	1330	1300		ug/Kg		97	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*89*		*40 - 121*
Phenol-d5 (Surr)	*83*		*41 - 120*
p-Terphenyl-d14 (Surr)	*95*		*46 - 143*
2,4,6-Tribromophenol (Surr)	*111*		*26 - 143*
2-Fluorobiphenyl (Surr)	*92*		*50 - 121*
2-Fluorophenol (Surr)	*82*		*36 - 120*

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

Lab Sample ID: 480-226170-1 MS
Matrix: Solid
Analysis Batch: 735095

Client Sample ID: SO-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	28	U	1490	1420		ug/Kg	☼	95	58 - 120
bis (2-chloroisopropyl) ether	38	U	1490	1210		ug/Kg	☼	81	31 - 120
2,4,5-Trichlorophenol	52	U	1490	1600		ug/Kg	☼	107	46 - 120
2,4,6-Trichlorophenol	38	U	1490	1590		ug/Kg	☼	107	41 - 123
2,4-Dichlorophenol	20	U	1490	1510		ug/Kg	☼	101	45 - 120
2,4-Dimethylphenol	46	U	1490	1540		ug/Kg	☼	103	52 - 120
2,4-Dinitrophenol	890	U	2990	2930		ug/Kg	☼	98	41 - 146
2,4-Dinitrotoluene	40	U	1490	1570		ug/Kg	☼	105	63 - 125
2,6-Dinitrotoluene	23	U	1490	1540		ug/Kg	☼	103	66 - 120
2-Chloronaphthalene	32	U	1490	1450		ug/Kg	☼	97	57 - 120
1,4-Dioxane	62	U	1490	755		ug/Kg	☼	51	13 - 120
2-Chlorophenol	35	U	1490	1420		ug/Kg	☼	95	43 - 120
2-Methylphenol	23	U	1490	1390		ug/Kg	☼	93	48 - 120
2-Methylnaphthalene	38	U	1490	1430		ug/Kg	☼	96	55 - 120
2-Nitroaniline	28	U	1490	1500		ug/Kg	☼	100	61 - 120
2-Nitrophenol	54	U	1490	1600		ug/Kg	☼	107	37 - 120
3,3'-Dichlorobenzidine	230	U	1490	1390		ug/Kg	☼	93	37 - 126
3-Nitroaniline	53	U	1490	1320		ug/Kg	☼	88	48 - 120
4,6-Dinitro-2-methylphenol	190	U	2990	3440		ug/Kg	☼	115	23 - 149
4-Bromophenyl phenyl ether	27	U	1490	1540		ug/Kg	☼	103	58 - 120
4-Chloro-3-methylphenol	47	U	1490	1580		ug/Kg	☼	106	49 - 125
4-Chloroaniline	47	U	1490	1300		ug/Kg	☼	87	38 - 120
4-Chlorophenyl phenyl ether	24	U	1490	1540		ug/Kg	☼	103	63 - 124
4-Methylphenol	23	U	1490	1420		ug/Kg	☼	95	50 - 120
4-Nitroaniline	100	U	1490	1470		ug/Kg	☼	99	47 - 120
4-Nitrophenol	130	U	2990	3300		ug/Kg	☼	110	31 - 147
Acenaphthene	28	U	1490	1480		ug/Kg	☼	99	60 - 120
Acenaphthylene	25	U	1490	1530		ug/Kg	☼	102	58 - 121
Acetophenone	26	U	1490	1390		ug/Kg	☼	93	47 - 120
Anthracene	47	U	1490	1510		ug/Kg	☼	101	62 - 120
Atrazine	67	U	1490	1550		ug/Kg	☼	104	60 - 150
Benzaldehyde	150	U	1490	1500		ug/Kg	☼	100	10 - 150
Benzo[a]anthracene	19	U	1490	1550		ug/Kg	☼	104	65 - 120
Benzo[a]pyrene	28	U	1490	1570		ug/Kg	☼	105	64 - 120
Benzo[b]fluoranthene	31	U	1490	1600		ug/Kg	☼	107	10 - 150
Benzo[g,h,i]perylene	20	U	1490	1690		ug/Kg	☼	113	45 - 145
Benzo[k]fluoranthene	25	U	1490	1530		ug/Kg	☼	102	23 - 150
Bis(2-chloroethoxy)methane	41	U	1490	1350		ug/Kg	☼	90	52 - 120
Bis(2-chloroethyl)ether	25	U	1490	1300		ug/Kg	☼	87	45 - 120
Bis(2-ethylhexyl) phthalate	66	U	1490	1540		ug/Kg	☼	103	61 - 133
Butyl benzyl phthalate	32	U	1490	1570		ug/Kg	☼	105	61 - 120
Caprolactam	58	U	1490	1470		ug/Kg	☼	99	37 - 133
Carbazole	23	U	1490	1480		ug/Kg	☼	99	59 - 120
Chrysene	43	U	1490	1490		ug/Kg	☼	100	64 - 120
Dibenz(a,h)anthracene	34	U	1490	1620		ug/Kg	☼	108	54 - 132
Di-n-butyl phthalate	33	U	1490	1530		ug/Kg	☼	103	58 - 130
Di-n-octyl phthalate	23	U	1490	1610		ug/Kg	☼	108	57 - 133
Dibenzofuran	23	U	1490	1480		ug/Kg	☼	99	62 - 120

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

Lab Sample ID: 480-226170-1 MS — **Client Sample ID: SO-12656942-KP-121024-001**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diethyl phthalate	25	U	1490	1540		ug/Kg	☼	103	66 - 120
Dimethyl phthalate	23	U	1490	1550		ug/Kg	☼	104	65 - 124
Fluoranthene	20	U	1490	1570		ug/Kg	☼	105	62 - 120
Fluorene	23	U	1490	1500		ug/Kg	☼	100	63 - 120
Hexachlorobenzene	26	U	1490	1570		ug/Kg	☼	105	60 - 120
Hexachlorobutadiene	28	U	1490	1560		ug/Kg	☼	105	45 - 120
Hexachlorocyclopentadiene	26	U	1490	1390		ug/Kg	☼	93	31 - 120
Hexachloroethane	25	U	1490	1280		ug/Kg	☼	86	21 - 120
Indeno[1,2,3-cd]pyrene	24	U	1490	1640		ug/Kg	☼	110	56 - 134
Isophorone	41	U	1490	1470		ug/Kg	☼	98	56 - 120
N-Nitrosodi-n-propylamine	33	U	1490	1390		ug/Kg	☼	93	46 - 120
N-Nitrosodiphenylamine	160	U	1490	1480		ug/Kg	☼	99	20 - 128
Naphthalene	25	U	1490	1370		ug/Kg	☼	92	46 - 120
Nitrobenzene	21	U	1490	1420		ug/Kg	☼	95	49 - 120
Pentachlorophenol	190	U	2990	3220		ug/Kg	☼	108	10 - 136
Phenanthrene	28	U	1490	1440		ug/Kg	☼	96	60 - 122
Phenol	29	U	1490	1350		ug/Kg	☼	90	50 - 120
Pyrene	23	U	1490	1500		ug/Kg	☼	100	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*		*40 - 121*
Phenol-d5 (Surr)	*92*		*41 - 120*
p-Terphenyl-d14 (Surr)	*99*		*46 - 143*
2,4,6-Tribromophenol (Surr)	*115*		*26 - 143*
2-Fluorobiphenyl (Surr)	*99*		*50 - 121*
2-Fluorophenol (Surr)	*89*		*36 - 120*

Lab Sample ID: 480-226170-1 MSD — **Client Sample ID: SO-12656942-KP-121024-001**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	28	U	1510	1370		ug/Kg	☼	90	58 - 120	4	20
bis (2-chloroisopropyl) ether	38	U	1510	1140		ug/Kg	☼	75	31 - 120	6	24
2,4,5-Trichlorophenol	52	U	1510	1520		ug/Kg	☼	101	46 - 120	5	18
2,4,6-Trichlorophenol	38	U	1510	1520		ug/Kg	☼	100	41 - 123	4	19
2,4-Dichlorophenol	20	U	1510	1510		ug/Kg	☼	100	45 - 120	0	19
2,4-Dimethylphenol	46	U	1510	1520		ug/Kg	☼	100	52 - 120	2	42
2,4-Dinitrophenol	890	U	3030	3540		ug/Kg	☼	117	41 - 146	19	22
2,4-Dinitrotoluene	40	U	1510	1640		ug/Kg	☼	109	63 - 125	4	20
2,6-Dinitrotoluene	23	U	1510	1550		ug/Kg	☼	102	66 - 120	1	15
2-Chloronaphthalene	32	U	1510	1390		ug/Kg	☼	92	57 - 120	4	21
1,4-Dioxane	62	U	1510	713		ug/Kg	☼	47	13 - 120	6	50
2-Chlorophenol	35	U	1510	1350		ug/Kg	☼	89	43 - 120	5	25
2-Methylphenol	23	U	1510	1360		ug/Kg	☼	90	48 - 120	2	27
2-Methylnaphthalene	38	U	1510	1400		ug/Kg	☼	92	55 - 120	2	21
2-Nitroaniline	28	U	1510	1500		ug/Kg	☼	99	61 - 120	0	15
2-Nitrophenol	54	U	1510	1540		ug/Kg	☼	102	37 - 120	4	18

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

Lab Sample ID: 480-226170-1 MSD | **Client Sample ID: SO-12656942-KP-121024-001**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 735095 | **Prep Batch: 735028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine	230	U	1510	1350		ug/Kg	☼	89	37 - 126	3	25
3-Nitroaniline	53	U	1510	1290		ug/Kg	☼	85	48 - 120	2	19
4,6-Dinitro-2-methylphenol	190	U	3030	3510		ug/Kg	☼	116	23 - 149	2	15
4-Bromophenyl phenyl ether	27	U	1510	1480		ug/Kg	☼	98	58 - 120	4	15
4-Chloro-3-methylphenol	47	U	1510	1560		ug/Kg	☼	103	49 - 125	1	27
4-Chloroaniline	47	U	1510	1280		ug/Kg	☼	84	38 - 120	2	22
4-Chlorophenyl phenyl ether	24	U	1510	1510		ug/Kg	☼	99	63 - 124	2	16
4-Methylphenol	23	U	1510	1400		ug/Kg	☼	92	50 - 120	2	24
4-Nitroaniline	100	U	1510	1520		ug/Kg	☼	100	47 - 120	3	24
4-Nitrophenol	130	U	3030	3300		ug/Kg	☼	109	31 - 147	0	25
Acenaphthene	28	U	1510	1420		ug/Kg	☼	94	60 - 120	4	35
Acenaphthylene	25	U	1510	1480		ug/Kg	☼	98	58 - 121	3	18
Acetophenone	26	U	1510	1330		ug/Kg	☼	88	47 - 120	4	20
Anthracene	47	U	1510	1400		ug/Kg	☼	93	62 - 120	7	15
Atrazine	67	U	1510	1510		ug/Kg	☼	99	60 - 150	3	20
Benzaldehyde	150	U	1510	1330		ug/Kg	☼	88	10 - 150	12	20
Benzo[a]anthracene	19	U	1510	1530		ug/Kg	☼	101	65 - 120	1	15
Benzo[a]pyrene	28	U	1510	1480		ug/Kg	☼	98	64 - 120	6	15
Benzo[b]fluoranthene	31	U	1510	1570		ug/Kg	☼	104	10 - 150	2	15
Benzo[g,h,i]perylene	20	U	1510	1580		ug/Kg	☼	104	45 - 145	7	15
Benzo[k]fluoranthene	25	U	1510	1400		ug/Kg	☼	92	23 - 150	9	22
Bis(2-chloroethoxy)methane	41	U	1510	1340		ug/Kg	☼	88	52 - 120	1	17
Bis(2-chloroethyl)ether	25	U	1510	1210		ug/Kg	☼	80	45 - 120	7	21
Bis(2-ethylhexyl) phthalate	66	U	1510	1450		ug/Kg	☼	96	61 - 133	6	15
Butyl benzyl phthalate	32	U	1510	1520		ug/Kg	☼	101	61 - 120	3	16
Caprolactam	58	U	1510	1450		ug/Kg	☼	96	37 - 133	2	20
Carbazole	23	U	1510	1420		ug/Kg	☼	94	59 - 120	4	20
Chrysene	43	U	1510	1440		ug/Kg	☼	95	64 - 120	3	15
Dibenz(a,h)anthracene	34	U	1510	1550		ug/Kg	☼	102	54 - 132	4	15
Di-n-butyl phthalate	33	U	1510	1430		ug/Kg	☼	95	58 - 130	7	15
Di-n-octyl phthalate	23	U	1510	1550		ug/Kg	☼	103	57 - 133	4	16
Dibenzofuran	23	U	1510	1430		ug/Kg	☼	95	62 - 120	3	15
Diethyl phthalate	25	U	1510	1480		ug/Kg	☼	98	66 - 120	4	15
Dimethyl phthalate	23	U	1510	1520		ug/Kg	☼	100	65 - 124	2	15
Fluoranthene	20	U	1510	1470		ug/Kg	☼	97	62 - 120	6	15
Fluorene	23	U	1510	1450		ug/Kg	☼	96	63 - 120	3	15
Hexachlorobenzene	26	U	1510	1470		ug/Kg	☼	97	60 - 120	7	15
Hexachlorobutadiene	28	U	1510	1500		ug/Kg	☼	99	45 - 120	4	44
Hexachlorocyclopentadiene	26	U	1510	1550		ug/Kg	☼	102	31 - 120	11	49
Hexachloroethane	25	U	1510	1260		ug/Kg	☼	83	21 - 120	2	46
Indeno[1,2,3-cd]pyrene	24	U	1510	1560		ug/Kg	☼	103	56 - 134	5	15
Isophorone	41	U	1510	1470		ug/Kg	☼	97	56 - 120	0	17
N-Nitrosodi-n-propylamine	33	U	1510	1340		ug/Kg	☼	89	46 - 120	3	31
N-Nitrosodiphenylamine	160	U	1510	1400		ug/Kg	☼	92	20 - 128	6	15
Naphthalene	25	U	1510	1320		ug/Kg	☼	87	46 - 120	3	29
Nitrobenzene	21	U	1510	1430		ug/Kg	☼	94	49 - 120	1	24
Pentachlorophenol	190	U	3030	3380		ug/Kg	☼	112	10 - 136	5	35
Phenanthrene	28	U	1510	1370		ug/Kg	☼	90	60 - 122	5	15
Phenol	29	U	1510	1300		ug/Kg	☼	86	50 - 120	3	35

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

Lab Sample ID: 480-226170-1 MSD — **Client Sample ID: SO-12656942-KP-121024-001**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735095 — **Prep Batch: 735028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	23	U	1510	1450		ug/Kg	☼	96	61 - 133	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*		*40 - 121*
Phenol-d5 (Surr)	*88*		*41 - 120*
p-Terphenyl-d14 (Surr)	*96*		*46 - 143*
2,4,6-Tribromophenol (Surr)	*110*		*26 - 143*
2-Fluorobiphenyl (Surr)	*95*		*50 - 121*
2-Fluorophenol (Surr)	*85*		*36 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-735068/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735362 — **Prep Batch: 735068**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.32	U	1.7	0.32	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
4,4'-DDE	0.35	U	1.7	0.35	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
4,4'-DDT	0.39	U	1.7	0.39	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Aldrin	0.41	U	1.7	0.41	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
alpha-BHC	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
cis-Chlordane	0.83	U	1.7	0.83	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
beta-BHC	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
delta-BHC	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Dieldrin	0.40	U	1.7	0.40	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan I	0.32	U	1.7	0.32	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan II	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan sulfate	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin	0.33	U	1.7	0.33	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin aldehyde	0.43	U	1.7	0.43	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin ketone	0.41	U	1.7	0.41	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
gamma-BHC (Lindane)	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
trans-Chlordane	0.53	U	1.7	0.53	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Heptachlor	0.36	U	1.7	0.36	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Methoxychlor	0.34	U	1.7	0.34	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Toxaphene	9.7	U	17	9.7	ug/Kg		12/12/24 07:25	12/16/24 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 09:53*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 09:53*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*12/12/24 07:25*	*12/16/24 09:53*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*12/12/24 07:25*	*12/16/24 09:53*	*1*

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

Lab Sample ID: LCS 480-735068/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735362 — **Prep Batch: 735068**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	14.2		ug/Kg		85	56 - 120
4,4'-DDE	16.7	10.9		ug/Kg		65	44 - 120
4,4'-DDT	16.7	12.0		ug/Kg		72	38 - 120
Aldrin	16.7	12.8		ug/Kg		77	38 - 120
alpha-BHC	16.7	11.8		ug/Kg		71	39 - 120
cis-Chlordane	16.7	13.0		ug/Kg		78	47 - 120
beta-BHC	16.7	13.7		ug/Kg		82	40 - 120
delta-BHC	16.7	13.5		ug/Kg		81	45 - 120
Dieldrin	16.7	14.0		ug/Kg		84	58 - 120
Endosulfan I	16.7	14.0		ug/Kg		84	49 - 120
Endosulfan II	16.7	14.6		ug/Kg		88	55 - 120
Endosulfan sulfate	16.7	14.1		ug/Kg		85	49 - 124
Endrin	16.7	14.0		ug/Kg		84	58 - 120
Endrin aldehyde	16.7	12.8		ug/Kg		77	37 - 121
Endrin ketone	16.7	14.4		ug/Kg		86	46 - 123
gamma-BHC (Lindane)	16.7	12.6		ug/Kg		76	50 - 120
trans-Chlordane	16.7	13.4		ug/Kg		80	48 - 120
Heptachlor	16.7	13.4		ug/Kg		81	50 - 120
Heptachlor epoxide	16.7	14.1		ug/Kg		85	50 - 120
Methoxychlor	16.7	13.5		ug/Kg		81	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*88*		*45 - 120*
DCB Decachlorobiphenyl	*84*		*45 - 120*
Tetrachloro-m-xylene	*72*		*30 - 124*
Tetrachloro-m-xylene	*72*		*30 - 124*

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

Lab Sample ID: MB 480-735069/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735119 — **Prep Batch: 735069**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1221	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1232	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1242	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1248	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1254	0.12	U	0.25	0.12	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1260	0.12	U	0.25	0.12	mg/Kg		12/12/24 07:32	12/12/24 14:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*115*		*60 - 154*	*12/12/24 07:32*	*12/12/24 14:58*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*12/12/24 07:32*	*12/12/24 14:58*	*1*
DCB Decachlorobiphenyl	*124*		*65 - 174*	*12/12/24 07:32*	*12/12/24 14:58*	*1*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*12/12/24 07:32*	*12/12/24 14:58*	*1*

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

Lab Sample ID: LCS 480-735069/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735119 — **Prep Batch: 735069**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2.50	3.20		mg/Kg		128	51 - 185		
PCB-1260			2.50	3.62		mg/Kg		145	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*140*		*60 - 154*
Tetrachloro-m-xylene	*127*		*60 - 154*
DCB Decachlorobiphenyl	*141*		*65 - 174*
DCB Decachlorobiphenyl	*147*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-735007/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735234 — **Prep Batch: 735007**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	6.0	U	17	6.0	ug/Kg		12/11/24 12:11	12/13/24 11:56	1
2,4-D	11	U	17	11	ug/Kg		12/11/24 12:11	12/13/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*12/11/24 12:11*	*12/13/24 11:56*	*1*
2,4-Dichlorophenylacetic acid	*75*		*28 - 129*	*12/11/24 12:11*	*12/13/24 11:56*	*1*

Lab Sample ID: LCS 480-735007/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735234 — **Prep Batch: 735007**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Silvex (2,4,5-TP)			66.7	50.4		ug/Kg		76	39 - 125		
2,4-D			66.7	50.9		ug/Kg		76	40 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*77*		*28 - 129*
2,4-Dichlorophenylacetic acid	*78*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-638644/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 638769 — **Prep Batch: 638644**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoropentanoic acid (PFPeA)	0.10	U	0.40	0.10	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorohexanoic acid (PFHxA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoroheptanoic acid (PFHpA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorooctanoic acid (PFOA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorononanoic acid (PFNA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-638644/1-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoroundecanoic acid (PFUnA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorododecanoic acid (PFDoA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorotridecanoic acid (PFTrDA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorotetradecanoic acid (PFTeDA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoropentanesulfonic acid (PFPeS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorononanesulfonic acid (PFNS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorododecanesulfonic acid (PFDoS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluorooctanesulfonamide (PFOSA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.50	U	2.0	0.50	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.50	U	2.0	0.50	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	0.40	0.10	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	0.40	0.10	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.80	0.20	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	0.40	0.10	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	1.0	0.25	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	5.0	1.3	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	5.0	1.3	ug/Kg		12/13/24 08:48	12/14/24 03:00	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-638644/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 638769 — **Prep Batch: 638644**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.20	0.050	ug/Kg		12/13/24 08:48	12/14/24 03:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.40	0.10	ug/Kg		12/13/24 08:48	12/14/24 03:00	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C5 PFPeA	*99.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C5 PFHxA	*85.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C4 PFHpA	*98.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C8 PFOA	*92.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C9 PFNA	*94.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C6 PFDA	*83.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C7 PFUnA	*97.6*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C2 PFTeDA	*74.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C3 PFBS	*97.1*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C3 PFHxS	*93.0*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C8 PFOS	*77.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C8 PFOSA	*64.5*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
d3-NMeFOSAA	*69.4*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
d5-NEtFOSAA	*122*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
M2-4:2 FTS	*88.8*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
M2-6:2 FTS	*102*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
M2-8:2 FTS	*104*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C3 HFPO-DA	*95.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
d7-N-MeFOSE-M	*61.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
d9-N-EtFOSE-M	*56.2*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
d5-NEtPFOSA	*59.7*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
D3-NMeFOSA	*65.9*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*
13C2-PFDoDA	*84.3*		*20 - 150*	*12/13/24 08:48*	*12/14/24 03:00*	*1*

Lab Sample ID: LCS 240-638644/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 638769 — **Prep Batch: 638644**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	11.1		ug/Kg		111	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.86		ug/Kg		117	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	3.09		ug/Kg		124	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.96		ug/Kg		119	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.80		ug/Kg		112	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.82		ug/Kg		113	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	3.14		ug/Kg		126	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.77		ug/Kg		111	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.89		ug/Kg		116	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	3.14		ug/Kg		125	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.77		ug/Kg		111	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-638644/3-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	2.21	2.54		ug/Kg		115	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.81		ug/Kg		120	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.19		ug/Kg		96	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	3.01		ug/Kg		127	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	3.22		ug/Kg		139	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	3.12		ug/Kg		130	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.75		ug/Kg		114	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.3		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	9.45		ug/Kg		100	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	10.3		ug/Kg		108	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	3.18		ug/Kg		127	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.81		ug/Kg		112	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.95		ug/Kg		118	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	2.91		ug/Kg		116	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.44		ug/Kg		97	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	29.0		ug/Kg		116	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	30.6		ug/Kg		122	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	11.8		ug/Kg		118	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	11.1		ug/Kg		118	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.30		ug/Kg		106	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.64		ug/Kg		113	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	12.3		ug/Kg		132	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	11.4		ug/Kg		121	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	5.87		ug/Kg		132	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	11.0		ug/Kg		88	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	69.8		ug/Kg		112	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	73.7		ug/Kg		118	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-638644/3-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanesulfonic acid (PFDS)	2.41	3.31		ug/Kg		137	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	4.83		ug/Kg		97	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*85.9*		*20 - 150*
13C5 PFPeA	*101*		*20 - 150*
13C5 PFHxA	*87.6*		*20 - 150*
13C4 PFHpA	*95.0*		*20 - 150*
13C8 PFOA	*95.7*		*20 - 150*
13C9 PFNA	*95.0*		*20 - 150*
13C6 PFDA	*86.0*		*20 - 150*
13C7 PFUnA	*95.9*		*20 - 150*
13C2 PFTeDA	*82.4*		*20 - 150*
13C3 PFBS	*95.1*		*20 - 150*
13C3 PFHxS	*92.1*		*20 - 150*
13C8 PFOS	*77.3*		*20 - 150*
13C8 PFOSA	*65.9*		*20 - 150*
d3-NMeFOSAA	*76.3*		*20 - 150*
d5-NEtFOSAA	*124*		*20 - 150*
M2-4:2 FTS	*95.2*		*20 - 150*
M2-6:2 FTS	*101*		*20 - 150*
M2-8:2 FTS	*95.5*		*20 - 150*
13C3 HFPO-DA	*93.4*		*20 - 150*
d7-N-MeFOSE-M	*64.2*		*20 - 150*
d9-N-EtFOSE-M	*59.5*		*20 - 150*
d5-NEtPFOSA	*62.7*		*20 - 150*
D3-NMeFOSA	*67.9*		*20 - 150*
13C2-PFDoDA	*84.5*		*20 - 150*

Lab Sample ID: LLCS 240-638644/2-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	1.05		ug/Kg		131	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.477		ug/Kg		119	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.281		ug/Kg		140	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.253		ug/Kg		126	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.247		ug/Kg		124	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.197	J	ug/Kg		98	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.274		ug/Kg		137	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.249		ug/Kg		125	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.236		ug/Kg		118	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.250		ug/Kg		125	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-638644/2-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.237		ug/Kg		119	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.211		ug/Kg		119	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.238		ug/Kg		127	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.210		ug/Kg		116	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.253		ug/Kg		133	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.266		ug/Kg		143	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.253		ug/Kg		132	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.209		ug/Kg		108	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.887		ug/Kg		119	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.828		ug/Kg		109	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.883		ug/Kg		115	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.259		ug/Kg		130	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.243		ug/Kg		121	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.251		ug/Kg		126	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.234		ug/Kg		117	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.206		ug/Kg		103	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.61		ug/Kg		131	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.91		ug/Kg		145	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	1.05		ug/Kg		132	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.953		ug/Kg		126	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.447		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.479		ug/Kg		120	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.978		ug/Kg		131	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.911		ug/Kg		121	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.520		ug/Kg		146	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.977	J	ug/Kg		98	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	6.19		ug/Kg		124	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-638644/2-A
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	5.86		ug/Kg		117	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.243		ug/Kg		126	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.425		ug/Kg		106	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*85.9*		*20 - 150*
13C5 PFPeA	*101*		*20 - 150*
13C5 PFHxA	*84.4*		*20 - 150*
13C4 PFHpA	*96.1*		*20 - 150*
13C8 PFOA	*90.9*		*20 - 150*
13C9 PFNA	*98.5*		*20 - 150*
13C6 PFDA	*89.8*		*20 - 150*
13C7 PFUnA	*88.7*		*20 - 150*
13C2 PFTeDA	*75.8*		*20 - 150*
13C3 PFBS	*93.8*		*20 - 150*
13C3 PFHxS	*92.1*		*20 - 150*
13C8 PFOS	*76.7*		*20 - 150*
13C8 PFOSA	*63.9*		*20 - 150*
d3-NMeFOSAA	*73.7*		*20 - 150*
d5-NEtFOSAA	*120*		*20 - 150*
M2-4:2 FTS	*94.4*		*20 - 150*
M2-6:2 FTS	*101*		*20 - 150*
M2-8:2 FTS	*97.7*		*20 - 150*
13C3 HFPO-DA	*93.8*		*20 - 150*
d7-N-MeFOSE-M	*62.9*		*20 - 150*
d9-N-EtFOSE-M	*59.2*		*20 - 150*
d5-NEtPFOSA	*62.4*		*20 - 150*
D3-NMeFOSA	*69.4*		*20 - 150*
13C2-PFDoDA	*88.2*		*20 - 150*

Lab Sample ID: 480-226170-16 DU
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: SO-12656942-KP-121024-020
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.21	U	0.21	U	ug/Kg	☼	NC	30
Perfluoropentanoic acid (PFPeA)	0.10	U	0.10	U	ug/Kg	☼	NC	30
Perfluorohexanoic acid (PFHxA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluoroheptanoic acid (PFHpA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluorooctanoic acid (PFOA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluorononanoic acid (PFNA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluorodecanoic acid (PFDA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluoroundecanoic acid (PFUnA)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluorododecanoic acid (PFDoA)	0.051	U	0.052	U	ug/Kg	☼	NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226170-16 DU
Matrix: Solid
Analysis Batch: 638769

Client Sample ID: SO-12656942-KP-121024-020
Prep Type: Total/NA
Prep Batch: 638644

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorotridecanoic acid (PFTrDA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorooctanesulfonic acid (PFOS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorononanesulfonic acid (PFNS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.051	U		0.052	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.21	U		0.21	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.21	U		0.21	U	ug/Kg	☼			NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.21	U		0.21	U	ug/Kg	☼			NC	30
Perfluorooctanesulfonamide (PFOSA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.051	U		0.052	U	ug/Kg	☼			NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.51	U		0.52	U	ug/Kg	☼			NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.51	U		0.52	U	ug/Kg	☼			NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.21	U		0.21	U	ug/Kg	☼			NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.21	U		0.21	U	ug/Kg	☼			NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U		0.10	U	ug/Kg	☼			NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U		0.10	U	ug/Kg	☼			NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.21	U		0.21	U	ug/Kg	☼			NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.21	U		0.21	U	ug/Kg	☼			NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U		0.10	U	ug/Kg	☼			NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.26	U		0.26	U	ug/Kg	☼			NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226170-16 DU — **Client Sample ID: SO-12656942-KP-121024-020**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 638769 — **Prep Batch: 638644**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	1.3	U	ug/Kg	☼	NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	1.3	U	ug/Kg	☼	NC	30
Perfluorodecanesulfonic acid (PFDS)	0.051	U	0.052	U	ug/Kg	☼	NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.10	U	ug/Kg	☼	NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*82.4*		*20 - 150*
13C5 PFPeA	*94.5*		*20 - 150*
13C5 PFHxA	*77.7*		*20 - 150*
13C4 PFHpA	*85.7*		*20 - 150*
13C8 PFOA	*87.0*		*20 - 150*
13C9 PFNA	*89.8*		*20 - 150*
13C6 PFDA	*78.1*		*20 - 150*
13C7 PFUnA	*87.5*		*20 - 150*
13C2 PFTeDA	*75.0*		*20 - 150*
13C3 PFBS	*89.5*		*20 - 150*
13C3 PFHxS	*85.3*		*20 - 150*
13C8 PFOS	*73.1*		*20 - 150*
13C8 PFOSA	*62.3*		*20 - 150*
d3-NMeFOSAA	*67.6*		*20 - 150*
d5-NEtFOSAA	*93.4*		*20 - 150*
M2-4:2 FTS	*84.9*		*20 - 150*
M2-6:2 FTS	*91.1*		*20 - 150*
M2-8:2 FTS	*91.6*		*20 - 150*
13C3 HFPO-DA	*86.1*		*20 - 150*
d7-N-MeFOSE-M	*61.3*		*20 - 150*
d9-N-EtFOSE-M	*58.9*		*20 - 150*
d5-NEtPFOSA	*68.4*		*20 - 150*
D3-NMeFOSA	*74.4*		*20 - 150*
13C2-PFDoDA	*81.9*		*20 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-734997/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735122 — **Prep Batch: 734997**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.8	U	10	8.8	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Antimony	0.54	U	15	0.54	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Arsenic	0.90	U	2.1	0.90	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Barium	0.14	U	0.51	0.14	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Beryllium	0.041	U	0.21	0.041	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Cadmium	0.072	U	0.21	0.072	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Calcium	28	U	51	28	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Chromium	0.37	U	0.51	0.37	mg/Kg		12/11/24 15:07	12/12/24 12:28	1

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

Lab Sample ID: MB 480-734997/1-A
Matrix: Solid
Analysis Batch: 735122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.10	U	0.51	0.10	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Copper	0.58	U ^5+	1.0	0.58	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Iron	8.7	U	10	8.7	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Lead	0.47	U	1.0	0.47	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Magnesium	8.7	U	21	8.7	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Manganese	0.29	U	1.0	0.29	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Nickel	0.26	U	5.1	0.26	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Potassium	25	U	31	25	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Selenium	0.82	U	4.1	0.82	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Silver	0.21	U ^5-	0.62	0.21	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Sodium	63	U	140	63	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Thallium	0.78	U	6.2	0.78	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Vanadium	0.13	U	0.51	0.13	mg/Kg		12/11/24 15:07	12/12/24 12:28	1
Zinc	1.0	U ^5-	2.1	1.0	mg/Kg		12/11/24 15:07	12/12/24 12:28	1

Lab Sample ID: LCSSRM 480-734997/2-A
Matrix: Solid
Analysis Batch: 735122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734997

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7350		mg/Kg		95.7	35.5 - 119.1
Antimony	244	88.1		mg/Kg		36.1	10.0 - 125.0
Arsenic	283	208		mg/Kg		73.4	60.1 - 111.3
Barium	326	271		mg/Kg		83.2	67.8 - 113.2
Beryllium	175	144		mg/Kg		82.6	68.6 - 114.3
Cadmium	95.8	74.7		mg/Kg		78.0	66.0 - 109.6
Calcium	5470	4690		mg/Kg		85.8	70.4 - 122.1
Chromium	239	196		mg/Kg		81.8	62.3 - 115.9
Cobalt	150	137		mg/Kg		91.0	68.7 - 114.7
Copper	217	178		mg/Kg		82.2	67.3 - 112.4
Iron	7360	6460		mg/Kg		87.8	10.0 - 182.1
Lead	210	201		mg/Kg		95.6	67.6 - 117.1
Magnesium	2080	1790		mg/Kg		85.9	51.4 - 126.9
Manganese	290	230		mg/Kg		79.2	66.9 - 114.8
Nickel	329	303		mg/Kg		92.1	63.5 - 117.6
Potassium	2330	2120		mg/Kg		91.1	50.6 - 121.5

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

Lab Sample ID: LCSSRM 480-734997/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735122 — **Prep Batch: 734997**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	281	219		mg/Kg		77.9	67.3 - 126.3
Silver	82.7	66.8		mg/Kg		80.8	65.8 - 119.8
Sodium	427	373		mg/Kg		87.5	54.8 - 135.4
Thallium	123	103		mg/Kg		83.4	59.6 - 116.3
Vanadium	192	154		mg/Kg		80.1	64.6 - 112.0
Zinc	260	216		mg/Kg		83.2	63.5 - 118.1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-734940/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 734940**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0047	U	0.020	0.0047	mg/Kg		12/13/24 09:11	12/13/24 11:09	1

Lab Sample ID: LCSSRM 480-734940/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 734940**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.9	22.0		mg/Kg		88.4	55.0 - 128.1

Lab Sample ID: MB 480-735165/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735165**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0047	U	0.020	0.0047	mg/Kg		12/13/24 09:11	12/13/24 11:47	1

Lab Sample ID: LCSSRM 480-735165/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735165**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.9	21.2		mg/Kg		84.9	55.0 - 128.1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-735055/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735076 — **Prep Batch: 735055**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.47	U	0.96	0.47	mg/Kg		12/11/24 11:55	12/11/24 17:24	1

Lab Sample ID: LCS 480-735055/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735076 — **Prep Batch: 735055**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.445		mg/Kg		111	29 - 122

Lab Sample ID: LCS 480-735055/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735076 — **Prep Batch: 735055**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.257		mg/Kg		103	29 - 122

Lab Sample ID: LCSSRM 480-735055/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735076 — **Prep Batch: 735055**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	112		mg/Kg		74.6	38.9 - 138.7

Lab Sample ID: 480-226170-23 MS — **Client Sample ID: SO-12656942-KP-121024-008**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735076 — **Prep Batch: 735055**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.62	U F1	1.56	1.17	J F1	mg/Kg	☼	75	85 - 115

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

GC/MS VOA

Prep Batch: 735053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-1	SO-12656942-KP-121024-001	Total/NA	Solid	5035A_L	
480-226170-4	SO-12656942-KP-121024-003	Total/NA	Solid	5035A_L	
480-226170-7	SO-12656942-KP-121024-029	Total/NA	Solid	5035A_L	
480-226170-21	SO-12656942-KP-121024-021	Total/NA	Solid	5035A_L	
480-226170-22	SO-12656942-KP-121024-007	Total/NA	Solid	5035A_L	
MB 480-735053/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-735053/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-226170-1 MS	SO-12656942-KP-121024-001	Total/NA	Solid	5035A_L	
480-226170-1 MSD	SO-12656942-KP-121024-001	Total/NA	Solid	5035A_L	

Analysis Batch: 735054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-1	SO-12656942-KP-121024-001	Total/NA	Solid	8260C	735053
480-226170-4	SO-12656942-KP-121024-003	Total/NA	Solid	8260C	735053
480-226170-7	SO-12656942-KP-121024-029	Total/NA	Solid	8260C	735053
480-226170-21	SO-12656942-KP-121024-021	Total/NA	Solid	8260C	735053
480-226170-22	SO-12656942-KP-121024-007	Total/NA	Solid	8260C	735053
MB 480-735053/2-A	Method Blank	Total/NA	Solid	8260C	735053
LCS 480-735053/1-A	Lab Control Sample	Total/NA	Solid	8260C	735053
480-226170-1 MS	SO-12656942-KP-121024-001	Total/NA	Solid	8260C	735053
480-226170-1 MSD	SO-12656942-KP-121024-001	Total/NA	Solid	8260C	735053

Prep Batch: 735172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-6	SO-12656942-KP-121024-005	Total/NA	Solid	5035A_L	
480-226170-11	SO-12656942-KP-121024-017	Total/NA	Solid	5035A_L	
MB 480-735172/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-735172/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-735172/5-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 735174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-6	SO-12656942-KP-121024-005	Total/NA	Solid	8260C	735172
480-226170-11	SO-12656942-KP-121024-017	Total/NA	Solid	8260C	735172
MB 480-735172/2-A	Method Blank	Total/NA	Solid	8260C	735172
LCS 480-735172/1-A	Lab Control Sample	Total/NA	Solid	8260C	735172
LCSD 480-735172/5-A	Lab Control Sample Dup	Total/NA	Solid	8260C	735172

GC/MS Semi VOA

Prep Batch: 735028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-1	SO-12656942-KP-121024-001	Total/NA	Solid	3550C	
480-226170-4	SO-12656942-KP-121024-003	Total/NA	Solid	3550C	
480-226170-4 - DL	SO-12656942-KP-121024-003	Total/NA	Solid	3550C	
480-226170-6	SO-12656942-KP-121024-005	Total/NA	Solid	3550C	
480-226170-8	SO-12656942-KP-121024-030	Total/NA	Solid	3550C	
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	3550C	
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	3550C	
480-226170-22	SO-12656942-KP-121024-007	Total/NA	Solid	3550C	
MB 480-735028/1-A	Method Blank	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 735028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-735028/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-226170-1 MS	SO-12656942-KP-121024-001	Total/NA	Solid	3550C	
480-226170-1 MSD	SO-12656942-KP-121024-001	Total/NA	Solid	3550C	

Analysis Batch: 735095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-1	SO-12656942-KP-121024-001	Total/NA	Solid	8270D	735028
480-226170-4	SO-12656942-KP-121024-003	Total/NA	Solid	8270D	735028
480-226170-6	SO-12656942-KP-121024-005	Total/NA	Solid	8270D	735028
480-226170-8	SO-12656942-KP-121024-030	Total/NA	Solid	8270D	735028
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	8270D	735028
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	8270D	735028
480-226170-22	SO-12656942-KP-121024-007	Total/NA	Solid	8270D	735028
MB 480-735028/1-A	Method Blank	Total/NA	Solid	8270D	735028
LCS 480-735028/2-A	Lab Control Sample	Total/NA	Solid	8270D	735028
480-226170-1 MS	SO-12656942-KP-121024-001	Total/NA	Solid	8270D	735028
480-226170-1 MSD	SO-12656942-KP-121024-001	Total/NA	Solid	8270D	735028

Analysis Batch: 735222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-4 - DL	SO-12656942-KP-121024-003	Total/NA	Solid	8270D	735028

GC Semi VOA

Prep Batch: 735007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	8151A	
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	8151A	
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	8151A	
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	8151A	
MB 480-735007/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-735007/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Prep Batch: 735068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	3550C	
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	3550C	
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	3550C	
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	3550C	
MB 480-735068/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-735068/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 735069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	3550C	
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	3550C	
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	3550C	
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	3550C	
MB 480-735069/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-735069/2-A	Lab Control Sample	Total/NA	Solid	3550C	

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

GC Semi VOA

Analysis Batch: 735119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	8082A	735069
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	8082A	735069
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	8082A	735069
MB 480-735069/1-A	Method Blank	Total/NA	Solid	8082A	735069
LCS 480-735069/2-A	Lab Control Sample	Total/NA	Solid	8082A	735069

Analysis Batch: 735198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	8082A	735069

Analysis Batch: 735234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	8151A	735007
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	8151A	735007
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	8151A	735007
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	8151A	735007
MB 480-735007/1-A	Method Blank	Total/NA	Solid	8151A	735007
LCS 480-735007/2-A	Lab Control Sample	Total/NA	Solid	8151A	735007

Analysis Batch: 735362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	8081B	735068
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	8081B	735068
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	8081B	735068
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	8081B	735068
MB 480-735068/1-A	Method Blank	Total/NA	Solid	8081B	735068
LCS 480-735068/2-A	Lab Control Sample	Total/NA	Solid	8081B	735068

LCMS

Prep Batch: 638644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-9	SO-12656942-KP-121024-014	Total/NA	Solid	1633 Shake	
480-226170-10	SO-12656942-KP-121024-033	Total/NA	Solid	1633 Shake	
480-226170-16	SO-12656942-KP-121024-020	Total/NA	Solid	1633 Shake	
480-226170-19	SO-12656942-KP-121024-016	Total/NA	Solid	1633 Shake	
MB 240-638644/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-638644/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-638644/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-226170-16 DU	SO-12656942-KP-121024-020	Total/NA	Solid	1633 Shake	

Analysis Batch: 638769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-9	SO-12656942-KP-121024-014	Total/NA	Solid	Draft-3 1633	638644
480-226170-10	SO-12656942-KP-121024-033	Total/NA	Solid	Draft-3 1633	638644
480-226170-16	SO-12656942-KP-121024-020	Total/NA	Solid	Draft-3 1633	638644
480-226170-19	SO-12656942-KP-121024-016	Total/NA	Solid	Draft-3 1633	638644
MB 240-638644/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	638644
LCS 240-638644/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	638644
LLCS 240-638644/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	638644
480-226170-16 DU	SO-12656942-KP-121024-020	Total/NA	Solid	Draft-3 1633	638644

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Metals

Prep Batch: 734940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	7471B	
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	7471B	
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	7471B	
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	7471B	
MB 480-734940/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-734940/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 734997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	3050B	
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	3050B	
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	3050B	
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	3050B	
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	3050B	
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	3050B	
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	3050B	
MB 480-734997/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-734997/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 735122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	6010D	734997
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	6010D	734997
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	6010D	734997
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	6010D	734997
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	6010D	734997
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	6010D	734997
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	6010D	734997
MB 480-734997/1-A	Method Blank	Total/NA	Solid	6010D	734997
LCSSRM 480-734997/2-A	Lab Control Sample	Total/NA	Solid	6010D	734997

Prep Batch: 735165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	7471B	
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	7471B	
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	7471B	
MB 480-735165/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-735165/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 735260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	7471B	734940
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	7471B	734940
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	7471B	734940
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	7471B	734940
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	7471B	735165
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	7471B	735165
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	7471B	735165
MB 480-734940/1-A	Method Blank	Total/NA	Solid	7471B	734940
MB 480-735165/1-A	Method Blank	Total/NA	Solid	7471B	735165
LCSSRM 480-734940/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	734940

Metals (Continued)

Analysis Batch: 735260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-735165/2-A ^10	Lab Control Sample	Total/NA	Solid	7471B	735165

General Chemistry

Analysis Batch: 639148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-9	SO-12656942-KP-121024-014	Total/NA	Solid	Moisture	
480-226170-10	SO-12656942-KP-121024-033	Total/NA	Solid	Moisture	
480-226170-16	SO-12656942-KP-121024-020	Total/NA	Solid	Moisture	
480-226170-19	SO-12656942-KP-121024-016	Total/NA	Solid	Moisture	
480-226170-19 DU	SO-12656942-KP-121024-016	Total/NA	Solid	Moisture	

Analysis Batch: 735023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-1	SO-12656942-KP-121024-001	Total/NA	Solid	Moisture	
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	Moisture	
480-226170-3	SO-12656942-KP-121024-013	Total/NA	Solid	Moisture	
480-226170-4	SO-12656942-KP-121024-003	Total/NA	Solid	Moisture	
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	Moisture	
480-226170-6	SO-12656942-KP-121024-005	Total/NA	Solid	Moisture	
480-226170-7	SO-12656942-KP-121024-029	Total/NA	Solid	Moisture	
480-226170-8	SO-12656942-KP-121024-030	Total/NA	Solid	Moisture	
480-226170-11	SO-12656942-KP-121024-017	Total/NA	Solid	Moisture	
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	Moisture	
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	Moisture	
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	Moisture	
480-226170-15	SO-12656942-KP-121024-019	Total/NA	Solid	Moisture	
480-226170-17	SO-12656942-KP-121024-015	Total/NA	Solid	Moisture	
480-226170-18	SO-12656942-KP-121024-032	Total/NA	Solid	Moisture	
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	Moisture	
480-226170-21	SO-12656942-KP-121024-021	Total/NA	Solid	Moisture	
480-226170-22	SO-12656942-KP-121024-007	Total/NA	Solid	Moisture	
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	Moisture	

Prep Batch: 735055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	9012B	
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	9012B	
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	9012B	
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	9012B	
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	9012B	
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	9012B	
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	9012B	
MB 480-735055/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-735055/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-735055/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-735055/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-226170-23 MS	SO-12656942-KP-121024-008	Total/NA	Solid	9012B	

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

General Chemistry

Analysis Batch: 735076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226170-2	SO-12656942-KP-121024-002	Total/NA	Solid	9012B	735055
480-226170-5	SO-12656942-KP-121024-004	Total/NA	Solid	9012B	735055
480-226170-12	SO-12656942-KP-121024-018	Total/NA	Solid	9012B	735055
480-226170-13	SO-12656942-KP-121024-006	Total/NA	Solid	9012B	735055
480-226170-14	SO-12656942-KP-121024-031	Total/NA	Solid	9012B	735055
480-226170-20	SO-12656942-KP-121024-022	Total/NA	Solid	9012B	735055
480-226170-23	SO-12656942-KP-121024-008	Total/NA	Solid	9012B	735055
MB 480-735055/1-A	Method Blank	Total/NA	Solid	9012B	735055
LCS 480-735055/3-A	Lab Control Sample	Total/NA	Solid	9012B	735055
LCS 480-735055/4-A	Lab Control Sample	Total/NA	Solid	9012B	735055
LCSSRM 480-735055/2-A	Lab Control Sample	Total/NA	Solid	9012B	735055
480-226170-23 MS	SO-12656942-KP-121024-008	Total/NA	Solid	9012B	735055

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-001 — Lab Sample ID: 480-226170-1

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-001 — Lab Sample ID: 480-226170-1

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 10:00
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/11/24 21:15
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		1	735095	JMM	EET BUF	12/12/24 14:09

Client Sample ID: SO-12656942-KP-121024-002 — Lab Sample ID: 480-226170-2

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-002 — Lab Sample ID: 480-226170-2

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:41
Total/NA	Prep	7471B			734940	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:42
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:35

Client Sample ID: SO-12656942-KP-121024-013 — Lab Sample ID: 480-226170-3

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-013 — Lab Sample ID: 480-226170-3

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 12:29

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-013 — Lab Sample ID: 480-226170-3

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735119	W1T	EET BUF	12/12/24 17:25
Total/NA	Prep	8151A			735007	DP	EET BUF	12/11/24 12:11
Total/NA	Analysis	8151A		1	735234	MAN	EET BUF	12/13/24 14:02

Client Sample ID: SO-12656942-KP-121024-003 — Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-003 — Lab Sample ID: 480-226170-4

Date Collected: 12/10/24 10:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 10:00
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/11/24 21:41
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		1	735095	JMM	EET BUF	12/12/24 16:12
Total/NA	Prep	3550C	DL		735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D	DL	5	735222	JMM	EET BUF	12/13/24 12:17

Client Sample ID: SO-12656942-KP-121024-004 — Lab Sample ID: 480-226170-5

Date Collected: 12/10/24 10:00 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-004 — Lab Sample ID: 480-226170-5

Date Collected: 12/10/24 10:00 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 76.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:43
Total/NA	Prep	7471B			734940	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:43
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:35

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-005 — Lab Sample ID: 480-226170-6

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-005 — Lab Sample ID: 480-226170-6

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735172	CDC	EET BUF	12/12/24 15:47
Total/NA	Analysis	8260C		1	735174	CDC	EET BUF	12/12/24 19:54
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		1	735095	JMM	EET BUF	12/12/24 16:36

Client Sample ID: SO-12656942-KP-121024-029 — Lab Sample ID: 480-226170-7

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-029 — Lab Sample ID: 480-226170-7

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 87.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 10:00
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/11/24 22:35

Client Sample ID: SO-12656942-KP-121024-030 — Lab Sample ID: 480-226170-8

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-030 — Lab Sample ID: 480-226170-8

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		1	735095	JMM	EET BUF	12/12/24 17:00

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-014 — Lab Sample ID: 480-226170-9

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Client Sample ID: SO-12656942-KP-121024-014 — Lab Sample ID: 480-226170-9

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 81.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638644	CLB	EET CLE	12/13/24 08:48
Total/NA	Analysis	Draft-3 1633		1	638769	LD	EET CLE	12/14/24 04:06

Client Sample ID: SO-12656942-KP-121024-033 — Lab Sample ID: 480-226170-10

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Client Sample ID: SO-12656942-KP-121024-033 — Lab Sample ID: 480-226170-10

Date Collected: 12/10/24 13:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638644	CLB	EET CLE	12/13/24 08:48
Total/NA	Analysis	Draft-3 1633		1	638769	LD	EET CLE	12/14/24 04:23

Client Sample ID: SO-12656942-KP-121024-017 — Lab Sample ID: 480-226170-11

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-017 — Lab Sample ID: 480-226170-11

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 88.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735172	CDC	EET BUF	12/12/24 15:47
Total/NA	Analysis	8260C		1	735174	CDC	EET BUF	12/12/24 20:21

Client Sample ID: SO-12656942-KP-121024-018 — Lab Sample ID: 480-226170-12

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-018 — Lab Sample ID: 480-226170-12

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 88.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		5	735095	JMM	EET BUF	12/12/24 17:25
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:52
Total/NA	Prep	7471B			734940	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:44
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:36

Client Sample ID: SO-12656942-KP-121024-006 — Lab Sample ID: 480-226170-13

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-006 — Lab Sample ID: 480-226170-13

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:54
Total/NA	Prep	7471B			734940	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:46
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:36

Client Sample ID: SO-12656942-KP-121024-031 — Lab Sample ID: 480-226170-14

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-031 — Lab Sample ID: 480-226170-14

Date Collected: 12/10/24 14:30 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:56
Total/NA	Prep	7471B			735165	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:50
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:36

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-019 — Lab Sample ID: 480-226170-15

Date Collected: 12/10/24 13:00 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-019 — Lab Sample ID: 480-226170-15

Date Collected: 12/10/24 13:00 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 12:49
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735198	H9RU	EET BUF	12/13/24 10:20
Total/NA	Prep	8151A			735007	DP	EET BUF	12/11/24 12:11
Total/NA	Analysis	8151A		1	735234	MAN	EET BUF	12/13/24 14:21

Client Sample ID: SO-12656942-KP-121024-020 — Lab Sample ID: 480-226170-16

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Client Sample ID: SO-12656942-KP-121024-020 — Lab Sample ID: 480-226170-16

Date Collected: 12/10/24 11:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 80.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638644	CLB	EET CLE	12/13/24 08:48
Total/NA	Analysis	Draft-3 1633		1	638769	LD	EET CLE	12/14/24 04:40

Client Sample ID: SO-12656942-KP-121024-015 — Lab Sample ID: 480-226170-17

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-015 — Lab Sample ID: 480-226170-17

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 13:09
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735119	W1T	EET BUF	12/12/24 18:02

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-015 — Lab Sample ID: 480-226170-17

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			735007	DP	EET BUF	12/11/24 12:11
Total/NA	Analysis	8151A		1	735234	MAN	EET BUF	12/13/24 14:39

Client Sample ID: SO-12656942-KP-121024-032 — Lab Sample ID: 480-226170-18

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-032 — Lab Sample ID: 480-226170-18

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 80.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 13:28
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735119	W1T	EET BUF	12/12/24 18:20
Total/NA	Prep	8151A			735007	DP	EET BUF	12/11/24 12:11
Total/NA	Analysis	8151A		1	735234	MAN	EET BUF	12/13/24 15:16

Client Sample ID: SO-12656942-KP-121024-016 — Lab Sample ID: 480-226170-19

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Client Sample ID: SO-12656942-KP-121024-016 — Lab Sample ID: 480-226170-19

Date Collected: 12/10/24 15:10 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638644	CLB	EET CLE	12/13/24 08:48
Total/NA	Analysis	Draft-3 1633		1	638769	LD	EET CLE	12/14/24 04:56

Client Sample ID: SO-12656942-KP-121024-022 — Lab Sample ID: 480-226170-20

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-022 — Lab Sample ID: 480-226170-20

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		5	735095	JMM	EET BUF	12/12/24 17:49
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:57
Total/NA	Prep	7471B			735165	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:51
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:39

Client Sample ID: SO-12656942-KP-121024-021 — Lab Sample ID: 480-226170-21

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-021 — Lab Sample ID: 480-226170-21

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 76.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 10:00
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/11/24 23:28

Client Sample ID: SO-12656942-KP-121024-007 — Lab Sample ID: 480-226170-22

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-007 — Lab Sample ID: 480-226170-22

Date Collected: 12/10/24 15:45 — **Matrix: Solid**
Date Received: 12/10/24 17:05 — **Percent Solids: 75.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 10:00
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/11/24 23:55
Total/NA	Prep	3550C			735028	LSC	EET BUF	12/11/24 13:49
Total/NA	Analysis	8270D		1	735095	JMM	EET BUF	12/12/24 18:14

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Client Sample ID: SO-12656942-KP-121024-008

Lab Sample ID: 480-226170-23

Date Collected: 12/10/24 15:45
Matrix: Solid
Date Received: 12/10/24 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735023	MAN	EET BUF	12/11/24 13:44

Client Sample ID: SO-12656942-KP-121024-008

Lab Sample ID: 480-226170-23

Date Collected: 12/10/24 15:45
Matrix: Solid
Date Received: 12/10/24 17:05
Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			734997	EMO	EET BUF	12/11/24 15:07
Total/NA	Analysis	6010D		1	735122	BMB	EET BUF	12/12/24 12:59
Total/NA	Prep	7471B			735165	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 11:52
Total/NA	Prep	9012B			735055	AM	EET BUF	12/11/24 11:55
Total/NA	Analysis	9012B		1	735076	AM	EET BUF	12/11/24 17:39

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-25

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

Analysis Method	Prep Method	Matrix	Analyte
Draft-3 1633	1633 Shake	Solid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
Draft-3 1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
Draft-3 1633	1633 Shake	Solid	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
Draft-3 1633	1633 Shake	Solid	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
Draft-3 1633	1633 Shake	Solid	3-Perfluoropentylpropanoic acid (5:3 FTCA)
Draft-3 1633	1633 Shake	Solid	3-Perfluoropropylpropanoic acid (3:3 FTCA)
Draft-3 1633	1633 Shake	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
Draft-3 1633	1633 Shake	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
Draft-3 1633	1633 Shake	Solid	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
Draft-3 1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamide (NEtFOSA)
Draft-3 1633	1633 Shake	Solid	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
Draft-3 1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamide (NMeFOSA)
Draft-3 1633	1633 Shake	Solid	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
Draft-3 1633	1633 Shake	Solid	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
Draft-3 1633	1633 Shake	Solid	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
Draft-3 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid (PFMPA)
Draft-3 1633	1633 Shake	Solid	Perfluoro-4-methoxybutanoic acid (PFMBA)
Draft-3 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid (PFBS)
Draft-3 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid (PFDS)
Draft-3 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-3 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid (PFHpS)

Laboratory: Eurofins Cleveland (Continued)

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

Authority	Program	Identification Number	Expiration Date

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

Analysis Method	Prep Method	Matrix	Analyte
Draft-3 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid (PFHxS)
Draft-3 1633	1633 Shake	Solid	Perfluorononanesulfonic acid (PFNS)
Draft-3 1633	1633 Shake	Solid	Perfluorooctanesulfonamide (PFOSA)
Draft-3 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid (PFPeS)
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010D	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
Moisture	Percent Moisture	EPA	EET CLE
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226170-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-226170-1	SO-12656942-KP-121024-001	Solid	12/10/24 11:10	12/10/24 17:05
480-226170-2	SO-12656942-KP-121024-002	Solid	12/10/24 11:10	12/10/24 17:05
480-226170-3	SO-12656942-KP-121024-013	Solid	12/10/24 11:10	12/10/24 17:05
480-226170-4	SO-12656942-KP-121024-003	Solid	12/10/24 10:30	12/10/24 17:05
480-226170-5	SO-12656942-KP-121024-004	Solid	12/10/24 10:00	12/10/24 17:05
480-226170-6	SO-12656942-KP-121024-005	Solid	12/10/24 13:45	12/10/24 17:05
480-226170-7	SO-12656942-KP-121024-029	Solid	12/10/24 13:45	12/10/24 17:05
480-226170-8	SO-12656942-KP-121024-030	Solid	12/10/24 13:45	12/10/24 17:05
480-226170-9	SO-12656942-KP-121024-014	Solid	12/10/24 13:45	12/10/24 17:05
480-226170-10	SO-12656942-KP-121024-033	Solid	12/10/24 13:45	12/10/24 17:05
480-226170-11	SO-12656942-KP-121024-017	Solid	12/10/24 14:30	12/10/24 17:05
480-226170-12	SO-12656942-KP-121024-018	Solid	12/10/24 14:30	12/10/24 17:05
480-226170-13	SO-12656942-KP-121024-006	Solid	12/10/24 14:30	12/10/24 17:05
480-226170-14	SO-12656942-KP-121024-031	Solid	12/10/24 14:30	12/10/24 17:05
480-226170-15	SO-12656942-KP-121024-019	Solid	12/10/24 13:00	12/10/24 17:05
480-226170-16	SO-12656942-KP-121024-020	Solid	12/10/24 11:10	12/10/24 17:05
480-226170-17	SO-12656942-KP-121024-015	Solid	12/10/24 15:10	12/10/24 17:05
480-226170-18	SO-12656942-KP-121024-032	Solid	12/10/24 15:10	12/10/24 17:05
480-226170-19	SO-12656942-KP-121024-016	Solid	12/10/24 15:10	12/10/24 17:05
480-226170-20	SO-12656942-KP-121024-022	Solid	12/10/24 15:45	12/10/24 17:05
480-226170-21	SO-12656942-KP-121024-021	Solid	12/10/24 15:45	12/10/24 17:05
480-226170-22	SO-12656942-KP-121024-007	Solid	12/10/24 15:45	12/10/24 17:05
480-226170-23	SO-12656942-KP-121024-008	Solid	12/10/24 15:45	12/10/24 17:05

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information
Client Contact: Christopher Arcuri
Company: GHD Services Inc.
Address: 2055 Niagara Falls Blvd., Suite 3
City: Niagara Falls
State, Zip: NY, 14304
Phone: 717-685-8408(Tel)
Email: christopher.arcuri@ghd.com
Project Name: [redacted], Jenkis 12656942
Site: 1112 + 1114 Niagara St, Buffalo NY

Sampler: Kathryn Ploss
Phone: 716-205-1888
PWSID:
Due Date Requested:
TAT Requested (days): 5 BD
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #: 12656942
Project #: 48023003
SSOW#: 12656942-02-2024

Lab PM: Heckler, Denise D.
E-Mail: Denise.Heckler@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: NY
COC No: 480-201416-41459.1
Page: Page 1 of 3
Job #: 12656942

Preservation Codes: N - None; A - HCL; D - HNO3; B - NaOH
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	537(modified) PFAS	8260C - VOCs	6010D/7470B TCL + CP-51	8270D - SVOCs, Pesticides	Total Cyanide 9012B TCL	8081A - OCPs	8082B - Pesticides	8151A - Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N		
SO-12656942-KP-121024-001	12/10/24	1110	G	Solid				X		X					15	MS/MSD
SO-12656942-KP-121024-002	12/10/24	1110	G	Solid					X		X				1	
SO-12656942-KP-121024-013	12/10/24	1110	G	Solid								X	X	X	2	
SO-12656942-KP-121024-003	12/10/24	1030	G	Solid				X		X						
SO-12656942-KP-121024-004	12/10/24	1000	G	Solid					X		X					
SO-12656942-KP-121024-005	12/10/24	1345	G	Solid				X		X						
SO-12656942-KP-121024-029	12/10/24	1345	G	Solid				X								
SO-12656942-KP-121024-030	12/10/24	1345	G	Solid						X						
SO-12656942-KP-121024-014	12/10/24	1345	G	Solid			X								1	
SO-[redacted] 12656942-KP-121024-033	12/10/24	1345	G	Solid			X								1	
				Solid											1	

Possible Hazard Identification: Δ Non-Hazard Δ Flammable Δ Skin Irritant Δ Poison B Δ Unknown Δ Radiological
Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Δ Return To Client Δ Disposal By Lab Δ Archive For Months
Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kathryn Ploss	12/10/24 5:05pm		[illegible]	12/10/24 1705	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.7 3.0 ICE IR # SC

Ver: 10/10/2024

480-226170 Chain of Custody

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information

Client Contact: Christopher Arcuri
Company: GHD Services Inc.
Address: 2055 Niagara Falls Blvd., Suite 3
City: Niagara Falls
State, Zip: NY, 14304
Phone: 717-565-8408(Tel)
Email: christopher.arcuri@ghd.com
Project Name: 02211547, Jenesis 12656942
Site: 1112+1114 Niagara St, Buffalo NY

Sampler: Kathryn Pless
Phone: 716-205-1888
PWSID:
Due Date Requested:
TAT Requested (days): 5 BD
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #: 12656942
Project #: 48023003
SSOW#: 12656942-02-2024

Lab PM: Heckler, Denise D.
E-Mail: Denise.Heckler@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: NY
COC No: 480-201418-41459.1
Page: Page 2 of 3
Job #: 12656942

Preservation Codes: N - None, A - HCL, D - HNO3, B - NaOH

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613 - PFAS	8260C - VOCs	TAL Metals/Hg	8270D - SVOCs	TCL	Total Cyanide	8082A - PCBs	8081B - Pesticides	8270D - Phenols	6010C - Aluminum	6010C - Iron	6010C - Manganese	6010C - Sodium	6010C - Potassium	6010C - Calcium	6010C - Magnesium	6010C - Total Hardness	8151A - Herbicides	6010C - Cyanide, Total	6010C - Thallium	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	A	N	N	M	N	O	N	B	B								X	
SO-12656942-KP-121024-017	12/10/24	1430	G	Solid				X																			4	
SO-12656942-KP-121024-018	12/10/24	1430	G	Solid					X	X	X																2	
SO-12656942-KP-121024-006	12/10/24	1430	G	Solid					X		X																1	
SO-12656942-KP-121024-031	12/10/24	1430	G	Solid					X		X																1	
SO-12656942-KP-121024-019	12/10/24	1300	G	Solid								X	X					X									2	
SO-12656942-KP-121024-020	12/10/24	1110	G	Solid			X																				1	
SO-12656942-KP-121024-015	12/10/24	1510	G	Solid								X	X					X									2	
SO-12656942-KP-121024-032	12/10/24	1510	G	Solid								X	X					X									2	
SO-12656942-KP-121024-016	12/10/24	1510	G	Solid			X																				1	
SO-12656942-KP-121024-022	12/10/24	1545	G	Solid					X	X	X																2	
SO-12656942-KP-121024-021	12/10/24	1545	G	Solid				X																			4	

Analysis Requested

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kathryn Pless	12/10/24 5:05			12/10/24 1705	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Kathryn Pless	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-201416-41450.1
Client Contact: Christopher Arcuri	Phone: 716-205-1898	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin: NY	Page: Page 3 of 3
Company: GHD Services Inc.	PWSID:			Job #: 12656942
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 5 BD			
State, Zip: NY, 14304	Compliance Project: Δ Yes Δ No			
Phone: 717-685-8408(Tel)	PO #: Purchase Order Requested			
Email: christopher.arcuri@ghd.com	WO #: 12656942			
Project Name: Jenesis 12656942	Project #: 48023003			
Site: 1112+1114 Niagara St, Buffalo NY	SSOW#: 12656942-02-2024			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - PFAS	8260C - VOCs	TAL Metals, Cyanide, Hg	8270D - SVOCs, Phenols	Total Cyanide	90/2B	8082A - PCBs	8081B - Pesticides	8260C - SVOCs	8270C - Sub-Ali-B-Alcohols	8270C - PAHs	8151A - Herbicides	8270C - Tentatively Identified Compounds	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	N	N	N		
SO-12656942-KP-121024-007	12/10/24	1545	G	Solid				X		X										5	
SO-12656942-KP-121024-008	12/10/24	1545	G	Solid					X		X									1	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Preservation Codes:
N - None
A - HCL
D - HNO3
B - NaOH
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Kathryn Pless	Date/Time: 12/10/24 5:05 pm	Company:	Received by:	Date/Time: 12/10/24 1705	Company: EA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

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

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Heckler Denise D	Carrier Tracking No(s): N/A	COC No: 480-90907 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-226170-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/17/2024			Preservation Codes:
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 12656942, Jenesis	Project #: 48023003			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SO-1265942-KP-121024-014 (480-226170-9)	12/10/24	13:05 Eastern	G	Solid			X	1	
SO-1265942-KP-121024-033 (480-226170-10)	12/10/24	13:45 Eastern	G	Solid			X	1	
SO-1265942-KP-121024-020 (480-226170-16)	12/10/24	11 10 Eastern	G	Solid			X	1	
SO-1265942-KP-121024-016 (480-226170-19)	12/10/24	15:10 Eastern	G	Solid			X	1	

HH 89-75

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

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

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
VS	12-11-24 1600			12-12-24 1015	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client E. Buffalo Site Name _____ Cooler unpacked by: [signature]
Cooler Received on 12-12-24 Opened on 12-12-24
FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____
Receipt After-hours Drop-off Date/Time _____ Storage Location _____
Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None
1 Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp. 3.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
3 Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5 Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7 Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11 Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC448976
14 Were VOAs on the COC? Yes No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17 Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by:

_____
_____
_____
_____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory
Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

ORIGIN ID: OKKA (716) 691-2600
SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

SHIP DATE: 11DEC24
ACTWGT 46.80 LB
CAD 0759273/CAFE3855
DIMS 26x15x14 IN

BILL SENDER

Part # 159469-494 MTW EXP 07/25

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF: BARBERTON

FedEx Express

TRK# 0201 7463 0661 6378

THU - 12 DEC 12:00P
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-226170-1

Login Number: 226170

List Source: Eurofins Buffalo

List Number: 1

Creator: Stapleton, Kaitlyn

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7, 3.0 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	Terra frozen at 1000 on 12/11/24
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GHD Services
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher Arcuri
GHD Services Inc.
2055 Niagara Falls Blvd., Suite 3
Niagara Falls, New York 14304

Generated 12/19/2024 6:54:28 AM

JOB DESCRIPTION

12656942, Jenesis

JOB NUMBER

480-226209-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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12/19/2024 6:54:28 AM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-226209-1

Receipt
The samples were received on 12/11/2024 1:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.3º C and 7.9º C.

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: GW-12656942-KP-121024-001 (480-226209-12), GW-12656942-KP-121024-002 (480-226209-13) and GW-12656942-KP-121024-003 (480-226209-15). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D SIM ID: The breakdown of 4,4'-DDT in the tuning evaluation exceeded 20%. Breakdown is not a criteria of the method but rather an internal check performed by the laboratory to evaluate the peak shape of 1,4-Dioxane and 1,4-Dioxane-d8. No adverse performance was observed and QC recoveries were in control. The data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-735218 recovered above the upper control limit for 4-Nitrophenol, Atrazine, Hexachlorobenzene and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: GW-12656942-KP-121024-001 (480-226209-12).

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-735218 recovered outside acceptance criteria, low biased, for bis (2-chloroisopropyl) ether and 3-Nitroaniline. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The following associated sample is impacted: GW-12656942-KP-121024-001 (480-226209-12).

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-735218 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. The following associated sample is impacted: GW-12656942-KP-121024-001 (480-226209-12).

Method 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-735139 and analytical batch 480-735218 recovered outside control limits for the following analytes: Atrazine and Hexachlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.The associated sample is impacted: GW-12656942-KP-121024-001 (480-226209-12).

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: GW-12656942-KP-121024-001 (480-226209-12). These results have been reported and qualified.

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

GC Semi VOA
Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: SO-12656942-KP-121024-023 (480-226209-6). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-735068 and analytical batch 480-735362 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. SO-12656942-KP-121024-023 (480-226209-6)

Method 8081B: The %RPD between the primary and confirmation column exceeded 40% for Endosulfan II and Methoxychlor for the following sample: SO-12656942-KP-121024-027 (480-226209-2). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081B: For method 8081 Pesticides, the majority of the peaks present in the sample extracts are biphenyls indicating the presence of Aroclors. The results of several confirmed positive peaks may be enhanced and due to the biphenyl peaks present, and may be considered estimated for: SO-12656942-KP-121024-027 (480-226209-2)

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

Metals
Method 6010D: The linear range check (LRC) standard recovery associated with 480-735294 is outside the acceptance criteria for the following analytes: Silver and Zinc. The concentration of these analyte(s) in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

Method 6010D: The linear range check (LRC) standard recovery associated with 480-735354 is outside the acceptance criteria for the following analytes: silver, copper, iron, and zinc . The concentration of these analyte(s)in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

LCMS
Method 1633: The low level continuing calibration verification (CCVL) associated with batch 240-638979 recovered outside of control limits for IDA compound(s) (flagged). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported.

Method 1633: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound(s) (flagged). Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: SO-12656942-KP-121024-028 (480-226209-3) and SO-12656942-KP-121024-024 (480-226209-11).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the low-level laboratory control sample (LLCS) associated with prep batch 240-638852. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The LLCS recovered within limits for associated target analyte(s), therefore, the associated samples are reported. The following samples are affected:SO-12656942-KP-121024-028 (480-226209-3) and SO-12656942-KP-121024-024 (480-226209-11).

Method 1633: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: SO-12656942-KP-121024-028 (480-226209-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

General Chemistry
Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-735607 and analytical batch 480-735629 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-735067.

Method 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: SO-12656942-KP-121024-027 (480-226209-2), SO-12656942-KP-121024-023 (480-226209-6), SO-12656942-KP-121024-023 (480-226209-6[MS]) and SO-12656942-KP-121024-023 (480-226209-6[MSD]).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-735139.

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

Detection Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-026 — Lab Sample ID: 480-226209-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	75	J	190	38	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	240		190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	270		190	28	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	340		190	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	200		190	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	150	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		190	42	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	64	J	190	33	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	30	J	190	22	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	400		190	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	170	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	33	J	190	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	240		190	28	ug/Kg	1	☼	8270D	Total/NA
Pyrene	360		190	22	ug/Kg	1	☼	8270D	Total/NA
Aluminum	6900		12	10	mg/Kg	1	☼	6010D	Total/NA
Arsenic	32		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	140		0.60	0.17	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.89		0.24	0.048	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J	0.24	0.084	mg/Kg	1	☼	6010D	Total/NA
Calcium	33000		60	32	mg/Kg	1	☼	6010D	Total/NA
Chromium	10		0.60	0.43	mg/Kg	1	☼	6010D	Total/NA
Cobalt	6.4		0.60	0.12	mg/Kg	1	☼	6010D	Total/NA
Copper	59		1.2	0.68	mg/Kg	1	☼	6010D	Total/NA
Iron	22000		12	10	mg/Kg	1	☼	6010D	Total/NA
Lead	55		1.2	0.55	mg/Kg	1	☼	6010D	Total/NA
Magnesium	5200		24	10	mg/Kg	1	☼	6010D	Total/NA
Manganese	230		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Nickel	21		6.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Potassium	850		36	29	mg/Kg	1	☼	6010D	Total/NA
Sodium	370		170	73	mg/Kg	1	☼	6010D	Total/NA
Vanadium	15		0.60	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	48	^5-	2.4	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.063		0.024	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-027 — Lab Sample ID: 480-226209-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.5		2.0	0.41	ug/Kg	1	☼	8081B	Total/NA
Endosulfan II	2.0		2.0	0.35	ug/Kg	1	☼	8081B	Total/NA
Endrin	18		2.0	0.39	ug/Kg	1	☼	8081B	Total/NA
Endrin ketone	0.65	J	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	4.3		2.0	0.40	ug/Kg	1	☼	8081B	Total/NA
PCB-1254	0.45		0.23	0.11	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: SO-12656942-KP-121024-028 — Lab Sample ID: 480-226209-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.091	J	0.20	0.051	ug/Kg	1	☼	Draft-3 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-009 — Lab Sample ID: 480-226209-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.80	J	4.0	0.29	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.43	J	4.0	0.28	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	1.6	J	8.1	0.68	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SO-12656942-KP-121024-010 — Lab Sample ID: 480-226209-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	15000	F2	12	10	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.0		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Barium	97		0.58	0.16	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.73		0.23	0.046	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.62		0.23	0.081	mg/Kg	1	☼	6010D	Total/NA
Calcium	45000		58	31	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		0.58	0.42	mg/Kg	1	☼	6010D	Total/NA
Cobalt	8.6		0.58	0.12	mg/Kg	1	☼	6010D	Total/NA
Copper	34		1.2	0.66	mg/Kg	1	☼	6010D	Total/NA
Iron	19000	F2	12	9.8	mg/Kg	1	☼	6010D	Total/NA
Lead	73	F1 F2	1.2	0.53	mg/Kg	1	☼	6010D	Total/NA
Magnesium	17000	F1	23	9.8	mg/Kg	1	☼	6010D	Total/NA
Manganese	440	F1	1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		5.8	0.29	mg/Kg	1	☼	6010D	Total/NA
Potassium	4000		35	28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.33	J ^5-	0.70	0.23	mg/Kg	1	☼	6010D	Total/NA
Sodium	1600		160	71	mg/Kg	1	☼	6010D	Total/NA
Vanadium	28		0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	150	^5- F1 F2	2.3	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.082	F1 F2	0.025	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-023 — Lab Sample ID: 480-226209-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.3		1.9	0.39	ug/Kg	1	☼	8081B	Total/NA
Dieldrin	44	F1 F2	1.9	0.45	ug/Kg	1	☼	8081B	Total/NA
Endrin	1.2	J	1.9	0.37	ug/Kg	1	☼	8081B	Total/NA

Client Sample ID: SO-12656942-KP-121024-011 — Lab Sample ID: 480-226209-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.28	J B	4.4	0.27	ug/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	84	J	210	43	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150	J	210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	150	J	210	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200	J	210	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130	J	210	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	84	J	210	28	ug/Kg	1	☼	8270D	Total/NA
Chrysene	170	J	210	48	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	39	J	210	38	ug/Kg	1	☼	8270D	Total/NA
Dibenzofuran	33	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	280		210	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	97	J	210	26	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	40	J	210	28	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	210		210	31	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-011 (Continued) — Lab Sample ID: 480-226209-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	240		210	25	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: SO-12656942-KP-121024-012 — Lab Sample ID: 480-226209-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	20000		13	11	mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.5		2.6	1.1	mg/Kg	1	☼	6010D	Total/NA
Barium	120		0.64	0.18	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.89		0.26	0.051	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.53		0.26	0.089	mg/Kg	1	☼	6010D	Total/NA
Calcium	7500		64	34	mg/Kg	1	☼	6010D	Total/NA
Chromium	23		0.64	0.46	mg/Kg	1	☼	6010D	Total/NA
Cobalt	11		0.64	0.13	mg/Kg	1	☼	6010D	Total/NA
Copper	84		1.3	0.73	mg/Kg	1	☼	6010D	Total/NA
Iron	25000		13	11	mg/Kg	1	☼	6010D	Total/NA
Lead	150		1.3	0.59	mg/Kg	1	☼	6010D	Total/NA
Magnesium	5500		26	11	mg/Kg	1	☼	6010D	Total/NA
Manganese	540		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Nickel	23		6.4	0.32	mg/Kg	1	☼	6010D	Total/NA
Potassium	4000		38	31	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.2	J	5.1	1.0	mg/Kg	1	☼	6010D	Total/NA
Sodium	270		180	78	mg/Kg	1	☼	6010D	Total/NA
Vanadium	38		0.64	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	230	^5-	2.6	1.3	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.17		0.026	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SO-12656942-KP-121024-025 — Lab Sample ID: 480-226209-9

No Detections.

Client Sample ID: SO-12656942-KP-121024-040 — Lab Sample ID: 480-226209-10

No Detections.

Client Sample ID: SO-12656942-KP-121024-024 — Lab Sample ID: 480-226209-11

No Detections.

Client Sample ID: GW-12656942-KP-121024-001 — Lab Sample ID: 480-226209-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	40	12	ug/L	4		8260C	Total/NA
Acetophenone	0.61	J	5.0	0.54	ug/L	1		8270D	Total/NA
Caprolactam	2.8	J	5.0	2.2	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.69	J	5.0	0.31	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.60	J	5.0	0.22	ug/L	1		8270D	Total/NA
Dimethyl phthalate	4.1	J	5.0	0.36	ug/L	1		8270D	Total/NA
Phenol	1.2	J	5.0	0.39	ug/L	1		8270D	Total/NA
Aluminum	0.51		0.20	0.060	mg/L	1		6010D	Total/NA
Barium	0.074		0.0020	0.00070	mg/L	1		6010D	Total/NA
Calcium	150		0.50	0.10	mg/L	1		6010D	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1		6010D	Total/NA
Cobalt	0.0029	J	0.0040	0.00063	mg/L	1		6010D	Total/NA
Iron	0.35		0.050	0.019	mg/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: GW-12656942-KP-121024-001 (Continued) — Lab Sample ID: 480-226209-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	51		0.20	0.043	mg/L	1		6010D	Total/NA
Manganese	0.26		0.0030	0.00040	mg/L	1		6010D	Total/NA
Nickel	0.0031	J	0.010	0.0013	mg/L	1		6010D	Total/NA
Potassium	7.1	B	0.50	0.10	mg/L	1		6010D	Total/NA
Sodium	180		1.0	0.32	mg/L	1		6010D	Total/NA
Barium	0.066		0.0020	0.00070	mg/L	1		6010D	Dissolved
Calcium	170		0.50	0.10	mg/L	1		6010D	Dissolved
Cobalt	0.0027	J	0.0040	0.00063	mg/L	1		6010D	Dissolved
Magnesium	58		0.20	0.043	mg/L	1		6010D	Dissolved
Manganese	0.29	B	0.0030	0.00040	mg/L	1		6010D	Dissolved
Nickel	0.0037	J	0.010	0.0013	mg/L	1		6010D	Dissolved
Potassium	7.0		0.50	0.10	mg/L	1		6010D	Dissolved
Sodium	180		1.0	0.32	mg/L	1		6010D	Dissolved
Zinc	0.0039	J ^5- B	0.010	0.0015	mg/L	1		6010D	Dissolved

Client Sample ID: GW-12656942-KP-121024-002 — Lab Sample ID: 480-226209-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.1	J	20	2.6	ug/L	2		8260C	Total/NA
Acetone	15	J	20	6.0	ug/L	2		8260C	Total/NA

Client Sample ID: GW-12656942-KP-121024-011 — Lab Sample ID: 480-226209-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.4		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: GW-12656942-KP-121024-003 — Lab Sample ID: 480-226209-15

No Detections.

Client Sample ID: Trip blank — Lab Sample ID: 480-226209-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SO-12656942-KP-121024-026

Lab Sample ID: 480-226209-1

Date Collected: 12/11/24 09:25
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 88.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	28	U	190	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
bis (2-chloroisopropyl) ether	38	U	190	38	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4,5-Trichlorophenol	51	U	190	51	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4,6-Trichlorophenol	38	U	190	38	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4-Dichlorophenol	20	U	190	20	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4-Dimethylphenol	45	U	190	45	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4-Dinitrophenol	870	U	1800	870	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,4-Dinitrotoluene	39	U	190	39	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2,6-Dinitrotoluene	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Chloronaphthalene	31	U	190	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
1,4-Dioxane	61	U	110	61	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Chlorophenol	34	U	370	34	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Methylphenol	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Methylnaphthalene	**75**	**J**	190	38	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Nitroaniline	28	U	370	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
2-Nitrophenol	53	U	190	53	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
3,3'-Dichlorobenzidine	220	U	370	220	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
3-Nitroaniline	52	U	370	52	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4,6-Dinitro-2-methylphenol	190	U	370	190	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Bromophenyl phenyl ether	27	U	190	27	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Chloro-3-methylphenol	46	U	190	46	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Chloroaniline	46	U	190	46	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Chlorophenyl phenyl ether	23	U	190	23	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Methylphenol	22	U	370	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Nitroaniline	99	U	370	99	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
4-Nitrophenol	130	U	370	130	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Acenaphthene	28	U	190	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Acenaphthylene	24	U	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Acetophenone	25	U	190	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Anthracene	46	U	190	46	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Atrazine	65	U	190	65	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzaldehyde	150	U	190	150	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzo[a]anthracene	**240**		190	19	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzo[a]pyrene	**270**		190	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzo[b]fluoranthene	**340**		190	30	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzo[g,h,i]perylene	**200**		190	20	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Benzo[k]fluoranthene	**150**	**J**	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Bis(2-chloroethoxy)methane	40	U	190	40	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Bis(2-chloroethyl)ether	24	U	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Bis(2-ethylhexyl) phthalate	64	U	190	64	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Butyl benzyl phthalate	31	U	190	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Caprolactam	56	U	190	56	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Carbazole	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Chrysene	**250**		190	42	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Dibenz(a,h)anthracene	**64**	**J**	190	33	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Di-n-butyl phthalate	32	U	190	32	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Di-n-octyl phthalate	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Dibenzofuran	**30**	**J**	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Diethyl phthalate	24	U	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-026

Date Collected: 12/11/24 09:25
Date Received: 12/11/24 13:25

Lab Sample ID: 480-226209-1

Matrix: Solid
Percent Solids: 88.2

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Fluoranthene	**400**		190	20	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Fluorene	22	U	190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Hexachlorobenzene	25	U	190	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Hexachlorobutadiene	28	U	190	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Hexachlorocyclopentadiene	25	U	190	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Hexachloroethane	24	U	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Indeno[1,2,3-cd]pyrene	**170**	**J**	190	23	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Isophorone	40	U	190	40	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
N-Nitrosodi-n-propylamine	32	U	190	32	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
N-Nitrosodiphenylamine	150	U	190	150	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Naphthalene	**33**	**J**	190	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Nitrobenzene	21	U	190	21	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Pentachlorophenol	190	U	370	190	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Phenanthrene	**240**		190	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Phenol	29	U	190	29	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1
Pyrene	**360**		190	22	ug/Kg	☼	12/15/24 07:11	12/16/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*86*		*40 - 121*	*12/15/24 07:11*	*12/16/24 14:21*	*1*
Phenol-d5 (Surr)	*88*		*41 - 120*	*12/15/24 07:11*	*12/16/24 14:21*	*1*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*	*12/15/24 07:11*	*12/16/24 14:21*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*26 - 143*	*12/15/24 07:11*	*12/16/24 14:21*	*1*
2-Fluorobiphenyl (Surr)	*92*		*50 - 121*	*12/15/24 07:11*	*12/16/24 14:21*	*1*
2-Fluorophenol (Surr)	*80*		*36 - 120*	*12/15/24 07:11*	*12/16/24 14:21*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6900**		12	10	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Antimony	0.63	U	18	0.63	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Arsenic	**32**		2.4	1.1	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Barium	**140**		0.60	0.17	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Beryllium	**0.89**		0.24	0.048	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Cadmium	**0.17**	**J**	0.24	0.084	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Calcium	**33000**		60	32	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Chromium	**10**		0.60	0.43	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Cobalt	**6.4**		0.60	0.12	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Copper	**59**		1.2	0.68	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Iron	**22000**		12	10	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Lead	**55**		1.2	0.55	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Magnesium	**5200**		24	10	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Manganese	**230**		1.2	0.33	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Nickel	**21**		6.0	0.30	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Potassium	**850**		36	29	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Selenium	0.96	U	4.8	0.96	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Silver	0.24	U ^5-	0.72	0.24	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Sodium	**370**		170	73	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Thallium	0.91	U	7.2	0.91	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Vanadium	**15**		0.60	0.16	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1
Zinc	**48**	**^5-**	2.4	1.2	mg/Kg	☼	12/12/24 14:04	12/13/24 14:05	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-026

Lab Sample ID: 480-226209-1
Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 88.2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.024	0.0054	mg/Kg	☼	12/13/24 09:11	12/13/24 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.51	U	1.1	0.51	mg/Kg	☼	12/17/24 11:55	12/18/24 11:38	1

Client Sample ID: SO-12656942-KP-121024-027

Lab Sample ID: 480-226209-2
Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 85.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.38	U	2.0	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
4,4'-DDE	**6.5**		2.0	0.41	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
4,4'-DDT	0.46	U	2.0	0.46	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Aldrin	0.48	U	2.0	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
alpha-BHC	0.35	U	2.0	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
cis-Chlordane	0.97	U	2.0	0.97	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
beta-BHC	0.35	U	2.0	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
delta-BHC	0.36	U	2.0	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Dieldrin	0.47	U	2.0	0.47	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endosulfan I	0.37	U	2.0	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endosulfan II	**2.0**		2.0	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endosulfan sulfate	0.36	U	2.0	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endrin	**18**		2.0	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endrin aldehyde	0.50	U	2.0	0.50	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Endrin ketone	**0.65**	**J**	2.0	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
gamma-BHC (Lindane)	0.36	U	2.0	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
trans-Chlordane	0.62	U	2.0	0.62	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Heptachlor	0.42	U	2.0	0.42	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Heptachlor epoxide	0.50	U	2.0	0.50	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Methoxychlor	**4.3**		2.0	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1
Toxaphene	11	U	20	11	ug/Kg	☼	12/12/24 07:25	12/16/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*12/12/24 07:25*	*12/16/24 13:48*	*1*
DCB Decachlorobiphenyl	*143*	*S1+*	*45 - 120*	*12/12/24 07:25*	*12/16/24 13:48*	*1*
Tetrachloro-m-xylene	*72*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:48*	*1*
Tetrachloro-m-xylene	*79*		*30 - 124*	*12/12/24 07:25*	*12/16/24 13:48*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.044	U	0.23	0.044	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1221	0.044	U	0.23	0.044	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1232	0.044	U	0.23	0.044	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1242	0.044	U	0.23	0.044	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1248	0.044	U	0.23	0.044	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1254	**0.45**		0.23	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1
PCB-1260	0.11	U	0.23	0.11	mg/Kg	☼	12/12/24 07:32	12/12/24 18:57	1

Client Sample ID: SO-12656942-KP-121024-027

Lab Sample ID: 480-226209-2

Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 85.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:57*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*12/12/24 07:32*	*12/12/24 18:57*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:57*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*12/12/24 07:32*	*12/12/24 18:57*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	6.9	U	19	6.9	ug/Kg	☼	12/15/24 07:01	12/17/24 14:18	1
2,4-D	12	U	19	12	ug/Kg	☼	12/15/24 07:01	12/17/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*	*12/15/24 07:01*	*12/17/24 14:18*	*1*
2,4-Dichlorophenylacetic acid	*73*		*28 - 129*	*12/15/24 07:01*	*12/17/24 14:18*	*1*

Client Sample ID: SO-12656942-KP-121024-028

Lab Sample ID: 480-226209-3

Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 81.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoropentanoic acid (PFPeA)	0.10	U	0.41	0.10	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorohexanoic acid (PFHxA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoroheptanoic acid (PFHpA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorooctanoic acid (PFOA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorononanoic acid (PFNA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorodecanoic acid (PFDA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoroundecanoic acid (PFUnA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorododecanoic acid (PFDoA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorotridecanoic acid (PFTrDA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorotetradecanoic acid (PFTeDA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorobutanesulfonic acid (PFBS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoropentanesulfonic acid (PFPeS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorooctanesulfonic acid (PFOS)	**0.091**	**J**	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorononanesulfonic acid (PFNS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorododecanesulfonic acid (PFDoS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorooctanesulfonamide (PFOSA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1

Client Sample ID: SO-12656942-KP-121024-028

Lab Sample ID: 480-226209-3

Date Collected: 12/11/24 09:25
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 81.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.51	U	2.0	0.51	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.51	U	2.0	0.51	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	0.41	0.10	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	0.41	0.10	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.81	0.20	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	0.41	0.10	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	1.0	0.25	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	5.1	1.3	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	5.1	1.3	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluorodecanesulfonic acid (PFDS)	0.051	U	0.20	0.051	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.41	0.10	ug/Kg	☼	12/16/24 08:35	12/17/24 03:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87.8*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C5 PFPeA	*103*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C5 PFHxA	*88.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C4 PFHpA	*97.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C8 PFOA	*99.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C9 PFNA	*102*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C6 PFDA	*85.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C7 PFUnA	*93.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C2 PFTeDA	*92.3*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C3 PFBS	*101*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C3 PFHxS	*92.2*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C8 PFOS	*85.9*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C8 PFOSA	*62.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
d3-NMeFOSAA	*92.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
d5-NEtFOSAA	*156*	**5+*	*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
M2-4:2 FTS	*111*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
M2-6:2 FTS	*108*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
M2-8:2 FTS	*112*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C3 HFPO-DA	*90.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
d7-N-MeFOSE-M	*74.8*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
d9-N-EtFOSE-M	*69.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*

Client Sample ID: SO-12656942-KP-121024-028

Lab Sample ID: 480-226209-3
Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 81.1

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtPFOSA	*64.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
D3-NMeFOSA	*68.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*
13C2-PFDoDA	*84.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:51*	*1*

Client Sample ID: SO-12656942-KP-121024-009

Lab Sample ID: 480-226209-4
Date Collected: 12/11/24 09:25
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 77.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.80**	**J**	4.0	0.29	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,1,2,2-Tetrachloroethane	0.66	U	4.0	0.66	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.92	U	4.0	0.92	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,1,2-Trichloroethane	0.53	U	4.0	0.53	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,1-Dichloroethane	0.49	U	4.0	0.49	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,1-Dichloroethene	0.50	U	4.0	0.50	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2,4-Trichlorobenzene	0.25	U	4.0	0.25	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2,4-Trimethylbenzene	0.78	U	4.0	0.78	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2-Dibromo-3-Chloropropane	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2-Dichlorobenzene	0.32	U	4.0	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2-Dichloroethane	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2-Dichloropropane	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,3,5-Trimethylbenzene	0.26	U	4.0	0.26	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,3-Dichlorobenzene	0.21	U	4.0	0.21	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,4-Dichlorobenzene	0.57	U	4.0	0.57	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
2-Butanone (MEK)	1.5	U	20	1.5	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
2-Hexanone	2.0	U	20	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
4-Isopropyltoluene	0.32	U	4.0	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
4-Methyl-2-pentanone (MIBK)	1.3	U	20	1.3	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Acetone	3.4	U	20	3.4	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Benzene	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Bromoform	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Bromomethane	0.36	U	4.0	0.36	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Carbon disulfide	2.0	U	4.0	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Carbon tetrachloride	0.39	U	4.0	0.39	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Chlorobenzene	0.53	U	4.0	0.53	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Dibromochloromethane	0.52	U	4.0	0.52	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Chloroethane	0.91	U	4.0	0.91	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Chloroform	0.25	U	4.0	0.25	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Chloromethane	0.24	U	4.0	0.24	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
cis-1,2-Dichloroethene	0.52	U	4.0	0.52	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Cyclohexane	0.57	U	4.0	0.57	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Bromodichloromethane	0.54	U	4.0	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Dichlorodifluoromethane	0.33	U	4.0	0.33	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Ethylbenzene	**0.43**	**J**	4.0	0.28	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
1,2-Dibromoethane	0.52	U	4.0	0.52	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Isopropylbenzene	0.61	U	4.0	0.61	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Methyl acetate	2.4	U	20	2.4	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Methyl tert-butyl ether	0.40	U	4.0	0.40	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Methylcyclohexane	0.62	U	4.0	0.62	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1

Client Sample ID: SO-12656942-KP-121024-009

Lab Sample ID: 480-226209-4

Date Collected: 12/11/24 09:25
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 77.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.9	U	4.0	1.9	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Naphthalene	0.54	U	4.0	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
n-Butylbenzene	0.35	U	4.0	0.35	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
N-Propylbenzene	0.32	U	4.0	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
sec-Butylbenzene	0.35	U	4.0	0.35	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Tetrachloroethene	0.54	U	4.0	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Toluene	0.31	U	4.0	0.31	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
trans-1,2-Dichloroethene	0.42	U	4.0	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
trans-1,3-Dichloropropene	1.8	U	4.0	1.8	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Trichloroethene	0.89	U	4.0	0.89	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Trichlorofluoromethane	0.38	U	4.0	0.38	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Vinyl chloride	0.49	U	4.0	0.49	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Xylenes, Total	**1.6**	**J**	8.1	0.68	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
cis-1,3-Dichloropropene	0.58	U	4.0	0.58	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
Styrene	0.20	U	4.0	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1
tert-Butylbenzene	0.42	U	4.0	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*12/11/24 16:30*	*12/12/24 00:22*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*12/11/24 16:30*	*12/12/24 00:22*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/11/24 16:30*	*12/12/24 00:22*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*12/11/24 16:30*	*12/12/24 00:22*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
bis (2-chloroisopropyl) ether	43	U	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4,5-Trichlorophenol	58	U	210	58	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4,6-Trichlorophenol	43	U	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4-Dichlorophenol	23	U	210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4-Dimethylphenol	52	U	210	52	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4-Dinitrophenol	990	U	2100	990	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,4-Dinitrotoluene	44	U	210	44	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2,6-Dinitrotoluene	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Chloronaphthalene	35	U	210	35	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
1,4-Dioxane	69	U	130	69	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Chlorophenol	39	U	410	39	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Methylphenol	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Methylnaphthalene	43	U	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Nitroaniline	31	U	410	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
2-Nitrophenol	60	U	210	60	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
3,3'-Dichlorobenzidine	250	U	410	250	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
3-Nitroaniline	59	U	410	59	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4,6-Dinitro-2-methylphenol	210	U	410	210	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Bromophenyl phenyl ether	30	U	210	30	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Chloro-3-methylphenol	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Chloroaniline	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Chlorophenyl phenyl ether	26	U	210	26	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Methylphenol	25	U	410	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
4-Nitroaniline	110	U	410	110	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1

Client Sample ID: SO-12656942-KP-121024-009

Lab Sample ID: 480-226209-4

Date Collected: 12/11/24 09:25
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 77.4

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	150	U	410	150	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Acenaphthene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Acenaphthylene	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Acetophenone	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Anthracene	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Atrazine	74	U	210	74	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzaldehyde	170	U	210	170	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzo[a]anthracene	21	U	210	21	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzo[a]pyrene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzo[b]fluoranthene	34	U	210	34	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzo[g,h,i]perylene	23	U	210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Benzo[k]fluoranthene	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Bis(2-chloroethoxy)methane	45	U	210	45	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Bis(2-chloroethyl)ether	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Bis(2-ethylhexyl) phthalate	73	U	210	73	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Butyl benzyl phthalate	35	U	210	35	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Caprolactam	64	U	210	64	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Carbazole	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Chrysene	48	U	210	48	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Dibenz(a,h)anthracene	38	U	210	38	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Di-n-butyl phthalate	36	U	210	36	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Di-n-octyl phthalate	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Dibenzofuran	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Diethyl phthalate	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Dimethyl phthalate	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Fluoranthene	23	U	210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Fluorene	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Hexachlorobenzene	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Hexachlorobutadiene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Hexachlorocyclopentadiene	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Hexachloroethane	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Indeno[1,2,3-cd]pyrene	26	U	210	26	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Isophorone	45	U	210	45	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
N-Nitrosodi-n-propylamine	36	U	210	36	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
N-Nitrosodiphenylamine	170	U	210	170	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Naphthalene	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Nitrobenzene	24	U	210	24	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Pentachlorophenol	210	U	410	210	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Phenanthrene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Phenol	33	U	210	33	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1
Pyrene	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*40 - 121*	*12/15/24 07:11*	*12/16/24 14:48*	*1*
Phenol-d5 (Surr)	*85*		*41 - 120*	*12/15/24 07:11*	*12/16/24 14:48*	*1*
p-Terphenyl-d14 (Surr)	*99*		*46 - 143*	*12/15/24 07:11*	*12/16/24 14:48*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*26 - 143*	*12/15/24 07:11*	*12/16/24 14:48*	*1*
2-Fluorobiphenyl (Surr)	*90*		*50 - 121*	*12/15/24 07:11*	*12/16/24 14:48*	*1*
2-Fluorophenol (Surr)	*78*		*36 - 120*	*12/15/24 07:11*	*12/16/24 14:48*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-010

Lab Sample ID: 480-226209-5
Date Collected: 12/11/24 10:10
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 84.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15000**	**F2**	12	10	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Antimony	0.62	U F1	17	0.62	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Arsenic	**6.0**		2.3	1.0	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Barium	**97**		0.58	0.16	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Beryllium	**0.73**		0.23	0.046	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Cadmium	**0.62**		0.23	0.081	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Calcium	**45000**		58	31	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Chromium	**18**		0.58	0.42	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Cobalt	**8.6**		0.58	0.12	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Copper	**34**		1.2	0.66	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Iron	**19000**	**F2**	12	9.8	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Lead	**73**	**F1 F2**	1.2	0.53	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Magnesium	**17000**	**F1**	23	9.8	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Manganese	**440**	**F1**	1.2	0.33	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Nickel	**20**		5.8	0.29	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Potassium	**4000**		35	28	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Selenium	0.93	U	4.6	0.93	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Silver	**0.33**	**J ^5-**	0.70	0.23	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Sodium	**1600**		160	71	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Thallium	0.88	U	7.0	0.88	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Vanadium	**28**		0.58	0.15	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1
Zinc	**150**	**^5- F1 F2**	2.3	1.2	mg/Kg	☼	12/12/24 14:04	12/13/24 14:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.082**	**F1 F2**	0.025	0.0057	mg/Kg	☼	12/13/24 09:11	12/13/24 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.56	U F1	1.2	0.56	mg/Kg	☼	12/17/24 11:55	12/18/24 11:34	1

Client Sample ID: SO-12656942-KP-121024-023

Lab Sample ID: 480-226209-6
Date Collected: 12/11/24 10:10
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 87.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.36	U	1.9	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
4,4'-DDE	**2.3**		1.9	0.39	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
4,4'-DDT	0.44	U	1.9	0.44	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Aldrin	0.46	U	1.9	0.46	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
alpha-BHC	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
cis-Chlordane	0.93	U	1.9	0.93	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
beta-BHC	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
delta-BHC	0.35	U	1.9	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Dieldrin	**44**	**F1 F2**	1.9	0.45	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Endosulfan I	0.36	U	1.9	0.36	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Endosulfan II	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Endosulfan sulfate	0.35	U	1.9	0.35	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Endrin	**1.2**	**J**	1.9	0.37	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1

Client Sample ID: SO-12656942-KP-121024-023

Lab Sample ID: 480-226209-6
Date Collected: 12/11/24 10:10
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 87.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	0.48	U	1.9	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Endrin ketone	0.46	U	1.9	0.46	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
gamma-BHC (Lindane)	0.34	U	1.9	0.34	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
trans-Chlordane	0.59	U	1.9	0.59	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Heptachlor	0.40	U	1.9	0.40	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Heptachlor epoxide	0.48	U	1.9	0.48	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Methoxychlor	0.38	U	1.9	0.38	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1
Toxaphene	11	U	19	11	ug/Kg	☼	12/12/24 07:25	12/16/24 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*45 - 120*	*12/12/24 07:25*	*12/16/24 11:11*	*1*
DCB Decachlorobiphenyl	*95*		*45 - 120*	*12/12/24 07:25*	*12/16/24 11:11*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*12/12/24 07:25*	*12/16/24 11:11*	*1*
Tetrachloro-m-xylene	*74*		*30 - 124*	*12/12/24 07:25*	*12/16/24 11:11*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	6.7	U	19	6.7	ug/Kg	☼	12/15/24 07:01	12/17/24 14:00	1
2,4-D	12	U	19	12	ug/Kg	☼	12/15/24 07:01	12/17/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*12/15/24 07:01*	*12/17/24 14:00*	*1*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*	*12/15/24 07:01*	*12/17/24 14:00*	*1*

Client Sample ID: SO-12656942-KP-121024-011

Lab Sample ID: 480-226209-7
Date Collected: 12/11/24 10:40
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 78.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.32	U	4.4	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,1,2,2-Tetrachloroethane	0.72	U	4.4	0.72	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	4.4	1.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,1,2-Trichloroethane	0.58	U	4.4	0.58	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,1-Dichloroethane	0.54	U	4.4	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,1-Dichloroethene	0.54	U	4.4	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2,4-Trichlorobenzene	0.27	U	4.4	0.27	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2,4-Trimethylbenzene	0.85	U	4.4	0.85	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2-Dibromo-3-Chloropropane	2.2	U	4.4	2.2	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2-Dichlorobenzene	0.35	U	4.4	0.35	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2-Dichloroethane	0.22	U	4.4	0.22	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2-Dichloropropane	2.2	U	4.4	2.2	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,3,5-Trimethylbenzene	0.29	U	4.4	0.29	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,3-Dichlorobenzene	0.23	U	4.4	0.23	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,4-Dichlorobenzene	0.62	U	4.4	0.62	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
2-Butanone (MEK)	1.6	U	22	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
2-Hexanone	2.2	U	22	2.2	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
4-Isopropyltoluene	0.36	U	4.4	0.36	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
4-Methyl-2-pentanone (MIBK)	1.5	U	22	1.5	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Acetone	3.7	U	22	3.7	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Benzene	0.22	U	4.4	0.22	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1

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Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 78.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	2.2	U	4.4	2.2	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Bromomethane	0.40	U	4.4	0.40	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Carbon disulfide	2.2	U	4.4	2.2	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Carbon tetrachloride	0.43	U	4.4	0.43	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Chlorobenzene	0.58	U	4.4	0.58	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Dibromochloromethane	0.57	U	4.4	0.57	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Chloroethane	1.0	U	4.4	1.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Chloroform	**0.28**	**J B**	4.4	0.27	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Chloromethane	0.27	U	4.4	0.27	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
cis-1,2-Dichloroethene	0.57	U	4.4	0.57	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Cyclohexane	0.62	U	4.4	0.62	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Bromodichloromethane	0.59	U	4.4	0.59	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Dichlorodifluoromethane	0.37	U	4.4	0.37	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Ethylbenzene	0.31	U	4.4	0.31	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
1,2-Dibromoethane	0.57	U	4.4	0.57	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Isopropylbenzene	0.67	U	4.4	0.67	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Methyl acetate	2.7	U	22	2.7	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Methyl tert-butyl ether	0.44	U	4.4	0.44	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Methylcyclohexane	0.67	U	4.4	0.67	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Methylene Chloride	2.0	U	4.4	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Naphthalene	0.59	U	4.4	0.59	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
n-Butylbenzene	0.39	U	4.4	0.39	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
N-Propylbenzene	0.35	U	4.4	0.35	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
sec-Butylbenzene	0.39	U	4.4	0.39	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Tetrachloroethene	0.59	U	4.4	0.59	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Toluene	0.33	U	4.4	0.33	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
trans-1,2-Dichloroethene	0.46	U	4.4	0.46	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
trans-1,3-Dichloropropene	1.9	U	4.4	1.9	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Trichloroethene	0.97	U	4.4	0.97	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Trichlorofluoromethane	0.42	U	4.4	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Vinyl chloride	0.54	U	4.4	0.54	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Xylenes, Total	0.74	U	8.9	0.74	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
cis-1,3-Dichloropropene	0.64	U	4.4	0.64	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
Styrene	0.22	U	4.4	0.22	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1
tert-Butylbenzene	0.46	U	4.4	0.46	ug/Kg	☼	12/11/24 16:30	12/12/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*12/11/24 16:30*	*12/12/24 00:49*	*1*
4-Bromofluorobenzene (Surr)	*83*		*72 - 126*	*12/11/24 16:30*	*12/12/24 00:49*	*1*
Toluene-d8 (Surr)	*109*		*71 - 125*	*12/11/24 16:30*	*12/12/24 00:49*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*12/11/24 16:30*	*12/12/24 00:49*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
bis (2-chloroisopropyl) ether	43	U	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,4,5-Trichlorophenol	58	U	210	58	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,4,6-Trichlorophenol	43	U	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,4-Dichlorophenol	23	U	210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,4-Dimethylphenol	51	U	210	51	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1

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Lab Sample ID: 480-226209-7

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 78.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	980	U	2100	980	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,4-Dinitrotoluene	44	U	210	44	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2,6-Dinitrotoluene	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Chloronaphthalene	35	U	210	35	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
1,4-Dioxane	69	U	130	69	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Chlorophenol	39	U	410	39	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Methylphenol	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Methylnaphthalene	**84**	**J**	210	43	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Nitroaniline	31	U	410	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
2-Nitrophenol	60	U	210	60	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
3,3'-Dichlorobenzidine	250	U	410	250	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
3-Nitroaniline	59	U	410	59	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4,6-Dinitro-2-methylphenol	210	U	410	210	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Bromophenyl phenyl ether	30	U	210	30	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Chloro-3-methylphenol	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Chloroaniline	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Chlorophenyl phenyl ether	26	U	210	26	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Methylphenol	25	U	410	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Nitroaniline	110	U	410	110	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
4-Nitrophenol	150	U	410	150	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Acenaphthene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Acenaphthylene	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Acetophenone	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Anthracene	53	U	210	53	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Atrazine	74	U	210	74	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzaldehyde	170	U	210	170	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzo[a]anthracene	**150**	**J**	210	21	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzo[a]pyrene	**150**	**J**	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzo[b]fluoranthene	**200**	**J**	210	34	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzo[g,h,i]perylene	**130**	**J**	210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Benzo[k]fluoranthene	**84**	**J**	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Bis(2-chloroethoxy)methane	45	U	210	45	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Bis(2-chloroethyl)ether	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Bis(2-ethylhexyl) phthalate	73	U	210	73	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Butyl benzyl phthalate	35	U	210	35	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Caprolactam	64	U	210	64	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Carbazole	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Chrysene	**170**	**J**	210	48	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Dibenz(a,h)anthracene	**39**	**J**	210	38	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Di-n-butyl phthalate	36	U	210	36	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Di-n-octyl phthalate	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Dibenzofuran	**33**	**J**	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Diethyl phthalate	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Dimethyl phthalate	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Fluoranthene	**280**		210	23	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Fluorene	25	U	210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Hexachlorobenzene	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Hexachlorobutadiene	31	U	210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Hexachlorocyclopentadiene	29	U	210	29	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1

Client Sample ID: SO-12656942-KP-121024-011

Lab Sample ID: 480-226209-7

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 78.8

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	28	U	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Indeno[1,2,3-cd]pyrene	**97**	**J**	210	26	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Isophorone	45	U	210	45	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
N-Nitrosodi-n-propylamine	36	U	210	36	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
N-Nitrosodiphenylamine	170	U	210	170	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Naphthalene	**40**	**J**	210	28	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Nitrobenzene	24	U	210	24	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Pentachlorophenol	210	U	410	210	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Phenanthrene	**210**		210	31	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Phenol	33	U	210	33	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1
Pyrene	**240**		210	25	ug/Kg	☼	12/15/24 07:11	12/16/24 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*88*		*40 - 121*	*12/15/24 07:11*	*12/16/24 15:14*	*1*
Phenol-d5 (Surr)	*87*		*41 - 120*	*12/15/24 07:11*	*12/16/24 15:14*	*1*
p-Terphenyl-d14 (Surr)	*95*		*46 - 143*	*12/15/24 07:11*	*12/16/24 15:14*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*26 - 143*	*12/15/24 07:11*	*12/16/24 15:14*	*1*
2-Fluorobiphenyl (Surr)	*95*		*50 - 121*	*12/15/24 07:11*	*12/16/24 15:14*	*1*
2-Fluorophenol (Surr)	*80*		*36 - 120*	*12/15/24 07:11*	*12/16/24 15:14*	*1*

Client Sample ID: SO-12656942-KP-121024-012

Lab Sample ID: 480-226209-8

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 79.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20000**		13	11	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Antimony	0.68	U	19	0.68	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Arsenic	**9.5**		2.6	1.1	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Barium	**120**		0.64	0.18	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Beryllium	**0.89**		0.26	0.051	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Cadmium	**0.53**		0.26	0.089	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Calcium	**7500**		64	34	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Chromium	**23**		0.64	0.46	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Cobalt	**11**		0.64	0.13	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Copper	**84**		1.3	0.73	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Iron	**25000**		13	11	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Lead	**150**		1.3	0.59	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Magnesium	**5500**		26	11	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Manganese	**540**		1.3	0.36	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Nickel	**23**		6.4	0.32	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Potassium	**4000**		38	31	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Selenium	**1.2**	**J**	5.1	1.0	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Silver	0.26	U ^5-	0.77	0.26	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Sodium	**270**		180	78	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Thallium	0.97	U	7.7	0.97	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Vanadium	**38**		0.64	0.17	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1
Zinc	**230**	**^5-**	2.6	1.3	mg/Kg	☼	12/12/24 14:04	12/13/24 14:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-012

Lab Sample ID: 480-226209-8
Date Collected: 12/11/24 10:40
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 79.8

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.026	0.0060	mg/Kg	☼	12/13/24 09:11	12/13/24 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.58	U	1.2	0.58	mg/Kg	☼	12/17/24 11:55	12/18/24 11:38	1

Client Sample ID: SO-12656942-KP-121024-025

Lab Sample ID: 480-226209-9
Date Collected: 12/11/24 10:10
Matrix: Solid
Date Received: 12/11/24 13:25
Percent Solids: 86.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.24	U	3.3	0.24	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,1,2,2-Tetrachloroethane	0.53	U	3.3	0.53	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.75	U	3.3	0.75	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,1,2-Trichloroethane	0.43	U	3.3	0.43	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,1-Dichloroethane	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,1-Dichloroethene	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2,4-Trichlorobenzene	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2,4-Trimethylbenzene	0.63	U	3.3	0.63	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2-Dibromo-3-Chloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2-Dichlorobenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2-Dichloroethane	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2-Dichloropropane	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,3,5-Trimethylbenzene	0.21	U	3.3	0.21	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,3-Dichlorobenzene	0.17	U	3.3	0.17	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,4-Dichlorobenzene	0.46	U	3.3	0.46	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
2-Butanone (MEK)	1.2	U	16	1.2	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
2-Hexanone	1.6	U	16	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
4-Isopropyltoluene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
4-Methyl-2-pentanone (MIBK)	1.1	U	16	1.1	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Acetone	2.8	U	16	2.8	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Benzene	0.16	U	3.3	0.16	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Bromoform	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Bromomethane	0.30	U	3.3	0.30	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Carbon disulfide	1.6	U	3.3	1.6	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Carbon tetrachloride	0.32	U	3.3	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Chlorobenzene	0.43	U	3.3	0.43	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Dibromochloromethane	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Chloroethane	0.74	U	3.3	0.74	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Chloroform	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Chloromethane	0.20	U	3.3	0.20	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
cis-1,2-Dichloroethene	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Cyclohexane	0.46	U	3.3	0.46	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Bromodichloromethane	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Dichlorodifluoromethane	0.27	U	3.3	0.27	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Ethylbenzene	0.23	U	3.3	0.23	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
1,2-Dibromoethane	0.42	U	3.3	0.42	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Isopropylbenzene	0.50	U	3.3	0.50	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Methyl acetate	2.0	U	16	2.0	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1

Client Sample ID: SO-12656942-KP-121024-025

Lab Sample ID: 480-226209-9

Date Collected: 12/11/24 10:10
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 86.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.32	U	3.3	0.32	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Methylcyclohexane	0.50	U	3.3	0.50	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Methylene Chloride	1.5	U	3.3	1.5	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Naphthalene	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
n-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
N-Propylbenzene	0.26	U	3.3	0.26	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
sec-Butylbenzene	0.29	U	3.3	0.29	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Tetrachloroethene	0.44	U	3.3	0.44	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Toluene	0.25	U	3.3	0.25	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
trans-1,2-Dichloroethene	0.34	U	3.3	0.34	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
trans-1,3-Dichloropropene	1.4	U	3.3	1.4	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Trichloroethene	0.72	U	3.3	0.72	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Trichlorofluoromethane	0.31	U	3.3	0.31	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Vinyl chloride	0.40	U	3.3	0.40	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Xylenes, Total	0.55	U	6.6	0.55	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
cis-1,3-Dichloropropene	0.47	U	3.3	0.47	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
Styrene	0.16	U	3.3	0.16	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1
tert-Butylbenzene	0.34	U	3.3	0.34	ug/Kg	☼	12/11/24 16:30	12/12/24 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*12/11/24 16:30*	*12/12/24 01:16*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*12/11/24 16:30*	*12/12/24 01:16*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/11/24 16:30*	*12/12/24 01:16*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*	*12/11/24 16:30*	*12/12/24 01:16*	*1*

Client Sample ID: SO-12656942-KP-121024-040

Lab Sample ID: 480-226209-10

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 89.9

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.040	U	0.21	0.040	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1221	0.040	U	0.21	0.040	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1232	0.040	U	0.21	0.040	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1242	0.040	U	0.21	0.040	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1248	0.040	U	0.21	0.040	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1254	0.096	U	0.21	0.096	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1
PCB-1260	0.096	U	0.21	0.096	mg/Kg	☼	12/12/24 07:32	12/12/24 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*60 - 154*	*12/12/24 07:32*	*12/12/24 16:11*	*1*
Tetrachloro-m-xylene	*112*		*60 - 154*	*12/12/24 07:32*	*12/12/24 16:11*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*12/12/24 07:32*	*12/12/24 16:11*	*1*
DCB Decachlorobiphenyl	*123*		*65 - 174*	*12/12/24 07:32*	*12/12/24 16:11*	*1*

Client Sample ID: SO-12656942-KP-121024-024

Lab Sample ID: 480-226209-11

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 84.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoropentanoic acid (PFPeA)	0.096	U	0.39	0.096	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorohexanoic acid (PFHxA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoroheptanoic acid (PFHpA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorooctanoic acid (PFOA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorononanoic acid (PFNA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorodecanoic acid (PFDA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoroundecanoic acid (PFUnA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorododecanoic acid (PFDoA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorotridecanoic acid (PFTrDA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorotetradecanoic acid (PFTeDA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorobutanesulfonic acid (PFBS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoropentanesulfonic acid (PFPeS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoroheptanesulfonic acid (PFHpS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorooctanesulfonic acid (PFOS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorononanesulfonic acid (PFNS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorooctanesulfonamide (PFOSA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.48	U	1.9	0.48	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.48	U	1.9	0.48	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.096	U	0.39	0.096	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.096	U	0.39	0.096	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.77	0.19	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.096	U	0.39	0.096	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1

Client Sample ID: SO-12656942-KP-121024-024

Lab Sample ID: 480-226209-11

Date Collected: 12/11/24 10:40
Date Received: 12/11/24 13:25

Matrix: Solid
Percent Solids: 84.7

Method: EPA Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.24	U	0.96	0.24	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.2	U	4.8	1.2	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.2	U	4.8	1.2	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluorodecanesulfonic acid (PFDS)	0.048	U	0.19	0.048	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.096	U	0.39	0.096	ug/Kg	☼	12/16/24 08:35	12/17/24 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.3*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C5 PFPeA	*102*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C5 PFHxA	*83.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C4 PFHpA	*92.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C8 PFOA	*92.9*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C9 PFNA	*97.2*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C6 PFDA	*83.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C7 PFUnA	*95.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C2 PFTeDA	*97.3*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C3 PFBS	*102*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C3 PFHxS	*94.9*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C8 PFOS	*80.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C8 PFOSA	*68.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
d3-NMeFOSAA	*84.9*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
d5-NEtFOSAA	*123*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
M2-4:2 FTS	*122*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
M2-6:2 FTS	*105*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
M2-8:2 FTS	*117*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C3 HFPO-DA	*92.7*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
d7-N-MeFOSE-M	*75.9*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
d9-N-EtFOSE-M	*68.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
d5-NEtPFOSA	*67.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
D3-NMeFOSA	*72.3*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*
13C2-PFDoDA	*83.7*		*20 - 150*	*12/16/24 08:35*	*12/17/24 04:41*	*1*

Client Sample ID: GW-12656942-KP-121024-001

Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30
Date Received: 12/11/24 13:25

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.3	U	4.0	3.3	ug/L			12/12/24 13:56	4
1,1,2,2-Tetrachloroethane	0.84	U	4.0	0.84	ug/L			12/12/24 13:56	4
1,1,2-Trichloroethane	0.92	U	4.0	0.92	ug/L			12/12/24 13:56	4
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	4.0	1.2	ug/L			12/12/24 13:56	4
1,1-Dichloroethane	1.5	U	4.0	1.5	ug/L			12/12/24 13:56	4
1,1-Dichloroethene	1.2	U	4.0	1.2	ug/L			12/12/24 13:56	4
1,2,4-Trichlorobenzene	1.6	U	4.0	1.6	ug/L			12/12/24 13:56	4
1,2-Dibromo-3-Chloropropane	1.6	U	4.0	1.6	ug/L			12/12/24 13:56	4
1,2-Dichlorobenzene	3.2	U	4.0	3.2	ug/L			12/12/24 13:56	4
1,2-Dichloroethane	0.84	U	4.0	0.84	ug/L			12/12/24 13:56	4

Client Sample ID: GW-12656942-KP-121024-001

Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30
Matrix: Water
Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	2.9	U	4.0	2.9	ug/L			12/12/24 13:56	4
1,3-Dichlorobenzene	3.1	U	4.0	3.1	ug/L			12/12/24 13:56	4
1,4-Dichlorobenzene	3.4	U	4.0	3.4	ug/L			12/12/24 13:56	4
1,2,4-Trimethylbenzene	3.0	U	4.0	3.0	ug/L			12/12/24 13:56	4
2-Butanone (MEK)	5.3	U	40	5.3	ug/L			12/12/24 13:56	4
2-Hexanone	5.0	U	20	5.0	ug/L			12/12/24 13:56	4
4-Methyl-2-pentanone (MIBK)	8.4	U	20	8.4	ug/L			12/12/24 13:56	4
Acetone	**17**	**J**	40	12	ug/L			12/12/24 13:56	4
Benzene	1.6	U	4.0	1.6	ug/L			12/12/24 13:56	4
Bromodichloromethane	1.6	U	4.0	1.6	ug/L			12/12/24 13:56	4
Bromoform	1.0	U	4.0	1.0	ug/L			12/12/24 13:56	4
Bromomethane	2.8	U	4.0	2.8	ug/L			12/12/24 13:56	4
1,3,5-Trimethylbenzene	3.1	U	4.0	3.1	ug/L			12/12/24 13:56	4
Carbon disulfide	0.76	U	4.0	0.76	ug/L			12/12/24 13:56	4
Carbon tetrachloride	1.1	U	4.0	1.1	ug/L			12/12/24 13:56	4
Chlorobenzene	3.0	U	4.0	3.0	ug/L			12/12/24 13:56	4
Dibromochloromethane	1.3	U	4.0	1.3	ug/L			12/12/24 13:56	4
Chloroethane	1.3	U	4.0	1.3	ug/L			12/12/24 13:56	4
Chloroform	1.4	U	4.0	1.4	ug/L			12/12/24 13:56	4
Chloromethane	1.4	U	4.0	1.4	ug/L			12/12/24 13:56	4
cis-1,2-Dichloroethene	3.2	U	4.0	3.2	ug/L			12/12/24 13:56	4
cis-1,3-Dichloropropene	1.4	U	4.0	1.4	ug/L			12/12/24 13:56	4
Cyclohexane	0.72	U	4.0	0.72	ug/L			12/12/24 13:56	4
Dichlorodifluoromethane	2.7	U	4.0	2.7	ug/L			12/12/24 13:56	4
Ethylbenzene	3.0	U	4.0	3.0	ug/L			12/12/24 13:56	4
1,2-Dibromoethane	2.9	U	4.0	2.9	ug/L			12/12/24 13:56	4
Isopropylbenzene	3.2	U	4.0	3.2	ug/L			12/12/24 13:56	4
Methyl acetate	5.2	U	10	5.2	ug/L			12/12/24 13:56	4
Methyl tert-butyl ether	0.64	U	4.0	0.64	ug/L			12/12/24 13:56	4
Methylcyclohexane	0.64	U	4.0	0.64	ug/L			12/12/24 13:56	4
Methylene Chloride	1.8	U	4.0	1.8	ug/L			12/12/24 13:56	4
Styrene	2.9	U	4.0	2.9	ug/L			12/12/24 13:56	4
Tetrachloroethene	1.4	U	4.0	1.4	ug/L			12/12/24 13:56	4
4-Isopropyltoluene	1.2	U	4.0	1.2	ug/L			12/12/24 13:56	4
Toluene	2.0	U	4.0	2.0	ug/L			12/12/24 13:56	4
trans-1,2-Dichloroethene	3.6	U	4.0	3.6	ug/L			12/12/24 13:56	4
trans-1,3-Dichloropropene	1.5	U	4.0	1.5	ug/L			12/12/24 13:56	4
Trichloroethene	1.8	U	4.0	1.8	ug/L			12/12/24 13:56	4
Trichlorofluoromethane	3.5	U	4.0	3.5	ug/L			12/12/24 13:56	4
Vinyl chloride	3.6	U	4.0	3.6	ug/L			12/12/24 13:56	4
Xylenes, Total	2.6	U	8.0	2.6	ug/L			12/12/24 13:56	4
Naphthalene	1.7	U	4.0	1.7	ug/L			12/12/24 13:56	4
n-Butylbenzene	2.6	U	4.0	2.6	ug/L			12/12/24 13:56	4
N-Propylbenzene	2.8	U	4.0	2.8	ug/L			12/12/24 13:56	4
sec-Butylbenzene	3.0	U	4.0	3.0	ug/L			12/12/24 13:56	4
tert-Butylbenzene	3.2	U	4.0	3.2	ug/L			12/12/24 13:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/12/24 13:56*	*4*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/12/24 13:56*	*4*

Client Sample ID: GW-12656942-KP-121024-001

Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30

Matrix: Water

Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/12/24 13:56*	*4*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/12/24 13:56*	*4*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	0.65	U	5.0	0.65	ug/L		12/12/24 14:26	12/13/24 23:33	1
bis (2-chloroisopropyl) ether	0.52	U	5.0	0.52	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4,5-Trichlorophenol	0.48	U	5.0	0.48	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4,6-Trichlorophenol	0.61	U	5.0	0.61	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4-Dichlorophenol	0.51	U	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4-Dimethylphenol	0.50	U	5.0	0.50	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4-Dinitrophenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,4-Dinitrotoluene	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 23:33	1
2,6-Dinitrotoluene	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Chloronaphthalene	0.46	U	5.0	0.46	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Chlorophenol	0.53	U	5.0	0.53	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Methylphenol	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Methylnaphthalene	0.60	U	5.0	0.60	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Nitroaniline	0.42	U	10	0.42	ug/L		12/12/24 14:26	12/13/24 23:33	1
2-Nitrophenol	0.48	U	5.0	0.48	ug/L		12/12/24 14:26	12/13/24 23:33	1
3,3'-Dichlorobenzidine	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 23:33	1
3-Nitroaniline	0.48	U	10	0.48	ug/L		12/12/24 14:26	12/13/24 23:33	1
4,6-Dinitro-2-methylphenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Bromophenyl phenyl ether	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Chloro-3-methylphenol	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Chloroaniline	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Chlorophenyl phenyl ether	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Methylphenol	0.36	U	10	0.36	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Nitroaniline	0.25	U	10	0.25	ug/L		12/12/24 14:26	12/13/24 23:33	1
4-Nitrophenol	1.5	U	10	1.5	ug/L		12/12/24 14:26	12/13/24 23:33	1
Acenaphthene	0.41	U	5.0	0.41	ug/L		12/12/24 14:26	12/13/24 23:33	1
Acenaphthylene	0.38	U	5.0	0.38	ug/L		12/12/24 14:26	12/13/24 23:33	1
Acetophenone	**0.61**	**J**	5.0	0.54	ug/L		12/12/24 14:26	12/13/24 23:33	1
Anthracene	0.28	U	5.0	0.28	ug/L		12/12/24 14:26	12/13/24 23:33	1
Atrazine	0.46	U *+	5.0	0.46	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzaldehyde	0.27	U	5.0	0.27	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzo[a]anthracene	0.36	U	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzo[a]pyrene	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzo[b]fluoranthene	0.34	U	5.0	0.34	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzo[g,h,i]perylene	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 23:33	1
Benzo[k]fluoranthene	0.73	U	5.0	0.73	ug/L		12/12/24 14:26	12/13/24 23:33	1
Bis(2-chloroethoxy)methane	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 23:33	1
Bis(2-chloroethyl)ether	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 23:33	1
Bis(2-ethylhexyl) phthalate	2.2	U	5.0	2.2	ug/L		12/12/24 14:26	12/13/24 23:33	1
Butyl benzyl phthalate	1.0	U	5.0	1.0	ug/L		12/12/24 14:26	12/13/24 23:33	1
Caprolactam	**2.8**	**J**	5.0	2.2	ug/L		12/12/24 14:26	12/13/24 23:33	1
Carbazole	0.30	U	5.0	0.30	ug/L		12/12/24 14:26	12/13/24 23:33	1
Chrysene	0.33	U	5.0	0.33	ug/L		12/12/24 14:26	12/13/24 23:33	1
Dibenz(a,h)anthracene	0.42	U	5.0	0.42	ug/L		12/12/24 14:26	12/13/24 23:33	1

Client Sample ID: GW-12656942-KP-121024-001

Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30
Matrix: Water
Date Received: 12/11/24 13:25

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	**0.69**	**J**	5.0	0.31	ug/L		12/12/24 14:26	12/13/24 23:33	1
Di-n-octyl phthalate	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 23:33	1
Dibenzofuran	0.51	U	10	0.51	ug/L		12/12/24 14:26	12/13/24 23:33	1
Diethyl phthalate	**0.60**	**J**	5.0	0.22	ug/L		12/12/24 14:26	12/13/24 23:33	1
Dimethyl phthalate	**4.1**	**J**	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 23:33	1
Fluoranthene	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 23:33	1
Fluorene	0.36	U	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 23:33	1
Hexachlorobenzene	0.51	U *+	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 23:33	1
Hexachlorobutadiene	0.68	U	5.0	0.68	ug/L		12/12/24 14:26	12/13/24 23:33	1
Hexachlorocyclopentadiene	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 23:33	1
Hexachloroethane	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 23:33	1
Indeno[1,2,3-cd]pyrene	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 23:33	1
Isophorone	0.43	U	5.0	0.43	ug/L		12/12/24 14:26	12/13/24 23:33	1
N-Nitrosodi-n-propylamine	0.54	U	5.0	0.54	ug/L		12/12/24 14:26	12/13/24 23:33	1
N-Nitrosodiphenylamine	0.51	U	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 23:33	1
Naphthalene	0.76	U	5.0	0.76	ug/L		12/12/24 14:26	12/13/24 23:33	1
Nitrobenzene	0.29	U	5.0	0.29	ug/L		12/12/24 14:26	12/13/24 23:33	1
Pentachlorophenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 23:33	1
Phenanthrene	0.44	U	5.0	0.44	ug/L		12/12/24 14:26	12/13/24 23:33	1
Phenol	**1.2**	**J**	5.0	0.39	ug/L		12/12/24 14:26	12/13/24 23:33	1
Pyrene	0.34	U	5.0	0.34	ug/L		12/12/24 14:26	12/13/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*29 - 129*	*12/12/24 14:26*	*12/13/24 23:33*	*1*
Phenol-d5 (Surr)	*33*		*10 - 120*	*12/12/24 14:26*	*12/13/24 23:33*	*1*
p-Terphenyl-d14 (Surr)	*63*		*33 - 132*	*12/12/24 14:26*	*12/13/24 23:33*	*1*
2,4,6-Tribromophenol (Surr)	*147*	*S1+*	*25 - 144*	*12/12/24 14:26*	*12/13/24 23:33*	*1*
2-Fluorobiphenyl (Surr)	*91*		*53 - 126*	*12/12/24 14:26*	*12/13/24 23:33*	*1*
2-Fluorophenol (Surr)	*48*		*24 - 120*	*12/12/24 14:26*	*12/13/24 23:33*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.51**		0.20	0.060	mg/L		12/13/24 08:39	12/13/24 15:38	1
Antimony	0.0068	U	0.020	0.0068	mg/L		12/13/24 08:39	12/13/24 15:38	1
Arsenic	0.0056	U	0.015	0.0056	mg/L		12/13/24 08:39	12/13/24 15:38	1
Barium	**0.074**		0.0020	0.00070	mg/L		12/13/24 08:39	12/13/24 15:38	1
Beryllium	0.00030	U	0.0020	0.00030	mg/L		12/13/24 08:39	12/13/24 15:38	1
Cadmium	0.00050	U	0.0020	0.00050	mg/L		12/13/24 08:39	12/13/24 15:38	1
Calcium	**150**		0.50	0.10	mg/L		12/13/24 08:39	12/13/24 15:38	1
Chromium	**0.0011**	**J**	0.0040	0.0010	mg/L		12/13/24 08:39	12/13/24 15:38	1
Cobalt	**0.0029**	**J**	0.0040	0.00063	mg/L		12/13/24 08:39	12/13/24 15:38	1
Copper	0.0016	U	0.010	0.0016	mg/L		12/13/24 08:39	12/13/24 15:38	1
Iron	**0.35**		0.050	0.019	mg/L		12/13/24 08:39	12/13/24 15:38	1
Lead	0.0030	U	0.010	0.0030	mg/L		12/13/24 08:39	12/13/24 15:38	1
Magnesium	**51**		0.20	0.043	mg/L		12/13/24 08:39	12/13/24 15:38	1
Manganese	**0.26**		0.0030	0.00040	mg/L		12/13/24 08:39	12/13/24 15:38	1
Nickel	**0.0031**	**J**	0.010	0.0013	mg/L		12/13/24 08:39	12/13/24 15:38	1
Potassium	**7.1**	**B**	0.50	0.10	mg/L		12/13/24 08:39	12/13/24 15:38	1
Selenium	0.0087	U	0.025	0.0087	mg/L		12/13/24 08:39	12/13/24 15:38	1
Silver	0.0017	U ^5-	0.0060	0.0017	mg/L		12/13/24 08:39	12/13/24 15:38	1

Client Sample ID: GW-12656942-KP-121024-001 — Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30
Date Received: 12/11/24 13:25
Matrix: Water

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**180**		1.0	0.32	mg/L		12/13/24 08:39	12/13/24 15:38	1
Thallium	0.010	U	0.020	0.010	mg/L		12/13/24 08:39	12/13/24 15:38	1
Vanadium	0.0015	U	0.0050	0.0015	mg/L		12/13/24 08:39	12/13/24 15:38	1
Zinc	0.0015	U ^5-	0.010	0.0015	mg/L		12/13/24 08:39	12/13/24 15:38	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.060	U	0.20	0.060	mg/L		12/13/24 08:34	12/13/24 16:33	1
Antimony	0.0068	U	0.020	0.0068	mg/L		12/13/24 08:34	12/13/24 16:33	1
Arsenic	0.0056	U	0.015	0.0056	mg/L		12/13/24 08:34	12/13/24 16:33	1
Barium	**0.066**		0.0020	0.00070	mg/L		12/13/24 08:34	12/13/24 16:33	1
Beryllium	0.00030	U	0.0020	0.00030	mg/L		12/13/24 08:34	12/13/24 16:33	1
Cadmium	0.00050	U	0.0020	0.00050	mg/L		12/13/24 08:34	12/13/24 16:33	1
Calcium	**170**		0.50	0.10	mg/L		12/13/24 08:34	12/13/24 16:33	1
Chromium	0.0010	U	0.0040	0.0010	mg/L		12/13/24 08:34	12/13/24 16:33	1
Cobalt	**0.0027**	**J**	0.0040	0.00063	mg/L		12/13/24 08:34	12/13/24 16:33	1
Copper	0.0016	U ^5+	0.010	0.0016	mg/L		12/13/24 08:34	12/13/24 16:33	1
Iron	0.019	U ^5-	0.050	0.019	mg/L		12/13/24 08:34	12/13/24 16:33	1
Lead	0.0030	U	0.010	0.0030	mg/L		12/13/24 08:34	12/13/24 16:33	1
Magnesium	**58**		0.20	0.043	mg/L		12/13/24 08:34	12/13/24 16:33	1
Manganese	**0.29**	**B**	0.0030	0.00040	mg/L		12/13/24 08:34	12/13/24 16:33	1
Nickel	**0.0037**	**J**	0.010	0.0013	mg/L		12/13/24 08:34	12/13/24 16:33	1
Potassium	**7.0**		0.50	0.10	mg/L		12/13/24 08:34	12/13/24 16:33	1
Selenium	0.0087	U	0.025	0.0087	mg/L		12/13/24 08:34	12/13/24 16:33	1
Silver	0.0017	U ^5-	0.0060	0.0017	mg/L		12/13/24 08:34	12/13/24 16:33	1
Sodium	**180**		1.0	0.32	mg/L		12/13/24 08:34	12/13/24 16:33	1
Thallium	0.010	U	0.020	0.010	mg/L		12/13/24 08:34	12/13/24 16:33	1
Vanadium	0.0015	U	0.0050	0.0015	mg/L		12/13/24 08:34	12/13/24 16:33	1
Zinc	**0.0039**	**J ^5- B**	0.010	0.0015	mg/L		12/13/24 08:34	12/13/24 16:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	U	0.00020	0.000042	mg/L		12/16/24 09:36	12/16/24 12:51	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	U	0.00020	0.000042	mg/L		12/16/24 09:36	12/16/24 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	0.0041	U	0.010	0.0041	mg/L			12/12/24 08:06	1

Client Sample ID: GW-12656942-KP-121024-002 — Lab Sample ID: 480-226209-13

Date Collected: 12/11/24 08:15
Date Received: 12/11/24 13:25
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2
1,1,2,2-Tetrachloroethane	0.42	U	2.0	0.42	ug/L			12/12/24 14:21	2
1,1,2-Trichloroethane	0.46	U	2.0	0.46	ug/L			12/12/24 14:21	2

Client Sample ID: GW-12656942-KP-121024-002

Lab Sample ID: 480-226209-13

Date Collected: 12/11/24 08:15

Matrix: Water

Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	U	2.0	0.62	ug/L			12/12/24 14:21	2
1,1-Dichloroethane	0.76	U	2.0	0.76	ug/L			12/12/24 14:21	2
1,1-Dichloroethene	0.58	U	2.0	0.58	ug/L			12/12/24 14:21	2
1,2,4-Trichlorobenzene	0.82	U	2.0	0.82	ug/L			12/12/24 14:21	2
1,2-Dibromo-3-Chloropropane	0.78	U	2.0	0.78	ug/L			12/12/24 14:21	2
1,2-Dichlorobenzene	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2
1,2-Dichloroethane	0.42	U	2.0	0.42	ug/L			12/12/24 14:21	2
1,2-Dichloropropane	1.4	U	2.0	1.4	ug/L			12/12/24 14:21	2
1,3-Dichlorobenzene	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2
1,4-Dichlorobenzene	1.7	U	2.0	1.7	ug/L			12/12/24 14:21	2
1,2,4-Trimethylbenzene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
2-Butanone (MEK)	**3.1**	**J**	20	2.6	ug/L			12/12/24 14:21	2
2-Hexanone	2.5	U	10	2.5	ug/L			12/12/24 14:21	2
4-Methyl-2-pentanone (MIBK)	4.2	U	10	4.2	ug/L			12/12/24 14:21	2
Acetone	**15**	**J**	20	6.0	ug/L			12/12/24 14:21	2
Benzene	0.82	U	2.0	0.82	ug/L			12/12/24 14:21	2
Bromodichloromethane	0.78	U	2.0	0.78	ug/L			12/12/24 14:21	2
Bromoform	0.52	U	2.0	0.52	ug/L			12/12/24 14:21	2
Bromomethane	1.4	U	2.0	1.4	ug/L			12/12/24 14:21	2
1,3,5-Trimethylbenzene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
Carbon disulfide	0.38	U	2.0	0.38	ug/L			12/12/24 14:21	2
Carbon tetrachloride	0.54	U	2.0	0.54	ug/L			12/12/24 14:21	2
Chlorobenzene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
Dibromochloromethane	0.64	U	2.0	0.64	ug/L			12/12/24 14:21	2
Chloroethane	0.64	U	2.0	0.64	ug/L			12/12/24 14:21	2
Chloroform	0.68	U	2.0	0.68	ug/L			12/12/24 14:21	2
Chloromethane	0.70	U	2.0	0.70	ug/L			12/12/24 14:21	2
cis-1,2-Dichloroethene	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2
cis-1,3-Dichloropropene	0.72	U	2.0	0.72	ug/L			12/12/24 14:21	2
Cyclohexane	0.36	U	2.0	0.36	ug/L			12/12/24 14:21	2
Dichlorodifluoromethane	1.4	U	2.0	1.4	ug/L			12/12/24 14:21	2
Ethylbenzene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
1,2-Dibromoethane	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
Isopropylbenzene	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2
Methyl acetate	2.6	U	5.0	2.6	ug/L			12/12/24 14:21	2
Methyl tert-butyl ether	0.32	U	2.0	0.32	ug/L			12/12/24 14:21	2
Methylcyclohexane	0.32	U	2.0	0.32	ug/L			12/12/24 14:21	2
Methylene Chloride	0.88	U	2.0	0.88	ug/L			12/12/24 14:21	2
Styrene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
Tetrachloroethene	0.72	U	2.0	0.72	ug/L			12/12/24 14:21	2
4-Isopropyltoluene	0.62	U	2.0	0.62	ug/L			12/12/24 14:21	2
Toluene	1.0	U	2.0	1.0	ug/L			12/12/24 14:21	2
trans-1,2-Dichloroethene	1.8	U	2.0	1.8	ug/L			12/12/24 14:21	2
trans-1,3-Dichloropropene	0.74	U	2.0	0.74	ug/L			12/12/24 14:21	2
Trichloroethene	0.92	U	2.0	0.92	ug/L			12/12/24 14:21	2
Trichlorofluoromethane	1.8	U	2.0	1.8	ug/L			12/12/24 14:21	2
Vinyl chloride	1.8	U	2.0	1.8	ug/L			12/12/24 14:21	2
Xylenes, Total	1.3	U	4.0	1.3	ug/L			12/12/24 14:21	2
Naphthalene	0.86	U	2.0	0.86	ug/L			12/12/24 14:21	2

Client Sample ID: GW-12656942-KP-121024-002 — Lab Sample ID: 480-226209-13

Date Collected: 12/11/24 08:15
Date Received: 12/11/24 13:25
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.3	U	2.0	1.3	ug/L			12/12/24 14:21	2
N-Propylbenzene	1.4	U	2.0	1.4	ug/L			12/12/24 14:21	2
sec-Butylbenzene	1.5	U	2.0	1.5	ug/L			12/12/24 14:21	2
tert-Butylbenzene	1.6	U	2.0	1.6	ug/L			12/12/24 14:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/12/24 14:21*	*2*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/12/24 14:21*	*2*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/12/24 14:21*	*2*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*12/12/24 14:21*	*2*

Client Sample ID: GW-12656942-KP-121024-011 — Lab Sample ID: 480-226209-14

Date Collected: 12/11/24 09:45
Date Received: 12/11/24 13:25
Matrix: Water

Method: SW846 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.4**		0.20	0.10	ug/L		12/12/24 07:20	12/13/24 15:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*34*		*15 - 110*	*12/12/24 07:20*	*12/13/24 15:31*	*1*

Client Sample ID: GW-12656942-KP-121024-003 — Lab Sample ID: 480-226209-15

Date Collected: 12/11/24 11:45
Date Received: 12/11/24 13:25
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	8.2	U	10	8.2	ug/L			12/12/24 14:46	10
1,1,2,2-Tetrachloroethane	2.1	U	10	2.1	ug/L			12/12/24 14:46	10
1,1,2-Trichloroethane	2.3	U	10	2.3	ug/L			12/12/24 14:46	10
1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	U	10	3.1	ug/L			12/12/24 14:46	10
1,1-Dichloroethane	3.8	U	10	3.8	ug/L			12/12/24 14:46	10
1,1-Dichloroethene	2.9	U	10	2.9	ug/L			12/12/24 14:46	10
1,2,4-Trichlorobenzene	4.1	U	10	4.1	ug/L			12/12/24 14:46	10
1,2-Dibromo-3-Chloropropane	3.9	U	10	3.9	ug/L			12/12/24 14:46	10
1,2-Dichlorobenzene	7.9	U	10	7.9	ug/L			12/12/24 14:46	10
1,2-Dichloroethane	2.1	U	10	2.1	ug/L			12/12/24 14:46	10
1,2-Dichloropropane	7.2	U	10	7.2	ug/L			12/12/24 14:46	10
1,3-Dichlorobenzene	7.8	U	10	7.8	ug/L			12/12/24 14:46	10
1,4-Dichlorobenzene	8.4	U	10	8.4	ug/L			12/12/24 14:46	10
1,2,4-Trimethylbenzene	7.5	U	10	7.5	ug/L			12/12/24 14:46	10
2-Butanone (MEK)	13	U	100	13	ug/L			12/12/24 14:46	10
2-Hexanone	12	U	50	12	ug/L			12/12/24 14:46	10
4-Methyl-2-pentanone (MIBK)	21	U	50	21	ug/L			12/12/24 14:46	10
Acetone	30	U	100	30	ug/L			12/12/24 14:46	10
Benzene	4.1	U	10	4.1	ug/L			12/12/24 14:46	10
Bromodichloromethane	3.9	U	10	3.9	ug/L			12/12/24 14:46	10
Bromoform	2.6	U	10	2.6	ug/L			12/12/24 14:46	10
Bromomethane	6.9	U	10	6.9	ug/L			12/12/24 14:46	10
1,3,5-Trimethylbenzene	7.7	U	10	7.7	ug/L			12/12/24 14:46	10

Client Sample ID: GW-12656942-KP-121024-003

Lab Sample ID: 480-226209-15

Date Collected: 12/11/24 11:45
Matrix: Water
Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.9	U	10	1.9	ug/L			12/12/24 14:46	10
Carbon tetrachloride	2.7	U	10	2.7	ug/L			12/12/24 14:46	10
Chlorobenzene	7.5	U	10	7.5	ug/L			12/12/24 14:46	10
Dibromochloromethane	3.2	U	10	3.2	ug/L			12/12/24 14:46	10
Chloroethane	3.2	U	10	3.2	ug/L			12/12/24 14:46	10
Chloroform	3.4	U	10	3.4	ug/L			12/12/24 14:46	10
Chloromethane	3.5	U	10	3.5	ug/L			12/12/24 14:46	10
cis-1,2-Dichloroethene	8.1	U	10	8.1	ug/L			12/12/24 14:46	10
cis-1,3-Dichloropropene	3.6	U	10	3.6	ug/L			12/12/24 14:46	10
Cyclohexane	1.8	U	10	1.8	ug/L			12/12/24 14:46	10
Dichlorodifluoromethane	6.8	U	10	6.8	ug/L			12/12/24 14:46	10
Ethylbenzene	7.4	U	10	7.4	ug/L			12/12/24 14:46	10
1,2-Dibromoethane	7.3	U	10	7.3	ug/L			12/12/24 14:46	10
Isopropylbenzene	7.9	U	10	7.9	ug/L			12/12/24 14:46	10
Methyl acetate	13	U	25	13	ug/L			12/12/24 14:46	10
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			12/12/24 14:46	10
Methylcyclohexane	1.6	U	10	1.6	ug/L			12/12/24 14:46	10
Methylene Chloride	4.4	U	10	4.4	ug/L			12/12/24 14:46	10
Styrene	7.3	U	10	7.3	ug/L			12/12/24 14:46	10
Tetrachloroethene	3.6	U	10	3.6	ug/L			12/12/24 14:46	10
4-Isopropyltoluene	3.1	U	10	3.1	ug/L			12/12/24 14:46	10
Toluene	5.1	U	10	5.1	ug/L			12/12/24 14:46	10
trans-1,2-Dichloroethene	9.0	U	10	9.0	ug/L			12/12/24 14:46	10
trans-1,3-Dichloropropene	3.7	U	10	3.7	ug/L			12/12/24 14:46	10
Trichloroethene	4.6	U	10	4.6	ug/L			12/12/24 14:46	10
Trichlorofluoromethane	8.8	U	10	8.8	ug/L			12/12/24 14:46	10
Vinyl chloride	9.0	U	10	9.0	ug/L			12/12/24 14:46	10
Xylenes, Total	6.6	U	20	6.6	ug/L			12/12/24 14:46	10
Naphthalene	4.3	U	10	4.3	ug/L			12/12/24 14:46	10
n-Butylbenzene	6.4	U	10	6.4	ug/L			12/12/24 14:46	10
N-Propylbenzene	6.9	U	10	6.9	ug/L			12/12/24 14:46	10
sec-Butylbenzene	7.5	U	10	7.5	ug/L			12/12/24 14:46	10
tert-Butylbenzene	8.1	U	10	8.1	ug/L			12/12/24 14:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/12/24 14:46*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/12/24 14:46*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/12/24 14:46*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/12/24 14:46*	*10*

Client Sample ID: Trip blank

Lab Sample ID: 480-226209-16

Date Collected: 12/11/24 00:00
Matrix: Water
Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.82	U	1.0	0.82	ug/L			12/12/24 15:11	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/12/24 15:11	1
1,1,2-Trichloroethane	0.23	U	1.0	0.23	ug/L			12/12/24 15:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/12/24 15:11	1

Client Sample ID: Trip blank

Lab Sample ID: 480-226209-16

Date Collected: 12/11/24 00:00
Matrix: Water
Date Received: 12/11/24 13:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/12/24 15:11	1
1,1-Dichloroethene	0.29	U	1.0	0.29	ug/L			12/12/24 15:11	1
1,2,4-Trichlorobenzene	0.41	U	1.0	0.41	ug/L			12/12/24 15:11	1
1,2-Dibromo-3-Chloropropane	0.39	U	1.0	0.39	ug/L			12/12/24 15:11	1
1,2-Dichlorobenzene	0.79	U	1.0	0.79	ug/L			12/12/24 15:11	1
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			12/12/24 15:11	1
1,2-Dichloropropane	0.72	U	1.0	0.72	ug/L			12/12/24 15:11	1
1,3-Dichlorobenzene	0.78	U	1.0	0.78	ug/L			12/12/24 15:11	1
1,4-Dichlorobenzene	0.84	U	1.0	0.84	ug/L			12/12/24 15:11	1
1,2,4-Trimethylbenzene	0.75	U	1.0	0.75	ug/L			12/12/24 15:11	1
2-Butanone (MEK)	1.3	U	10	1.3	ug/L			12/12/24 15:11	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			12/12/24 15:11	1
4-Methyl-2-pentanone (MIBK)	2.1	U	5.0	2.1	ug/L			12/12/24 15:11	1
Acetone	3.0	U	10	3.0	ug/L			12/12/24 15:11	1
Benzene	0.41	U	1.0	0.41	ug/L			12/12/24 15:11	1
Bromodichloromethane	0.39	U	1.0	0.39	ug/L			12/12/24 15:11	1
Bromoform	0.26	U	1.0	0.26	ug/L			12/12/24 15:11	1
Bromomethane	0.69	U	1.0	0.69	ug/L			12/12/24 15:11	1
1,3,5-Trimethylbenzene	0.77	U	1.0	0.77	ug/L			12/12/24 15:11	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			12/12/24 15:11	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			12/12/24 15:11	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			12/12/24 15:11	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/12/24 15:11	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/12/24 15:11	1
Chloroform	0.34	U	1.0	0.34	ug/L			12/12/24 15:11	1
Chloromethane	0.35	U	1.0	0.35	ug/L			12/12/24 15:11	1
cis-1,2-Dichloroethene	0.81	U	1.0	0.81	ug/L			12/12/24 15:11	1
cis-1,3-Dichloropropene	0.36	U	1.0	0.36	ug/L			12/12/24 15:11	1
Cyclohexane	0.18	U	1.0	0.18	ug/L			12/12/24 15:11	1
Dichlorodifluoromethane	0.68	U	1.0	0.68	ug/L			12/12/24 15:11	1
Ethylbenzene	0.74	U	1.0	0.74	ug/L			12/12/24 15:11	1
1,2-Dibromoethane	0.73	U	1.0	0.73	ug/L			12/12/24 15:11	1
Isopropylbenzene	0.79	U	1.0	0.79	ug/L			12/12/24 15:11	1
Methyl acetate	1.3	U	2.5	1.3	ug/L			12/12/24 15:11	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			12/12/24 15:11	1
Methylcyclohexane	0.16	U	1.0	0.16	ug/L			12/12/24 15:11	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			12/12/24 15:11	1
Styrene	0.73	U	1.0	0.73	ug/L			12/12/24 15:11	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			12/12/24 15:11	1
4-Isopropyltoluene	0.31	U	1.0	0.31	ug/L			12/12/24 15:11	1
Toluene	0.51	U	1.0	0.51	ug/L			12/12/24 15:11	1
trans-1,2-Dichloroethene	0.90	U	1.0	0.90	ug/L			12/12/24 15:11	1
trans-1,3-Dichloropropene	0.37	U	1.0	0.37	ug/L			12/12/24 15:11	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			12/12/24 15:11	1
Trichlorofluoromethane	0.88	U	1.0	0.88	ug/L			12/12/24 15:11	1
Vinyl chloride	0.90	U	1.0	0.90	ug/L			12/12/24 15:11	1
Xylenes, Total	0.66	U	2.0	0.66	ug/L			12/12/24 15:11	1
Naphthalene	0.43	U	1.0	0.43	ug/L			12/12/24 15:11	1
n-Butylbenzene	0.64	U	1.0	0.64	ug/L			12/12/24 15:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: Trip blank

Lab Sample ID: 480-226209-16

Date Collected: 12/11/24 00:00
Date Received: 12/11/24 13:25

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.69	U	1.0	0.69	ug/L			12/12/24 15:11	1
sec-Butylbenzene	0.75	U	1.0	0.75	ug/L			12/12/24 15:11	1
tert-Butylbenzene	0.81	U	1.0	0.81	ug/L			12/12/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/12/24 15:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/12/24 15:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/12/24 15:11*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/12/24 15:11*	*1*

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-226209-4	SO-12656942-KP-121024-009	98	94	100	97
480-226209-7	SO-12656942-KP-121024-011	102	83	109	101
480-226209-9	SO-12656942-KP-121024-025	104	97	100	98
LCS 480-735053/1-A	Lab Control Sample	100	100	102	105
MB 480-735053/2-A	Method Blank	100	98	100	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-226209-12	GW-12656942-KP-121024-001	95	100	100	98
480-226209-13	GW-12656942-KP-121024-002	98	95	102	97
480-226209-15	GW-12656942-KP-121024-003	93	97	100	98
480-226209-16	Trip blank	96	100	101	102
LCS 480-735106/6	Lab Control Sample	99	103	104	99
MB 480-735106/8	Method Blank	97	99	102	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(40-121)	(41-120)	(46-143)	(26-143)	(50-121)	(36-120)
480-226209-1	SO-12656942-KP-121024-026	86	88	97	93	92	80
480-226209-4	SO-12656942-KP-121024-009	84	85	99	93	90	78
480-226209-7	SO-12656942-KP-121024-011	88	87	95	97	95	80
LCS 480-735339/2-A	Lab Control Sample	81	82	97	100	89	77
MB 480-735339/1-A	Method Blank	82	86	100	90	90	78

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(29-129)	(10-120)	(33-132)	(25-144)	(53-126)	(24-120)
480-226209-12	GW-12656942-KP-121024-001	80	33	63	147 S1+	91	48
LCS 480-735139/2-A	Lab Control Sample	87	44	104	134	90	60
LCSD 480-735139/3-A	Lab Control Sample Dup	79	39	95	122	83	54
MB 480-735139/1-A	Method Blank	64	29	89	102	68	45

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-226209-2	SO-12656942-KP-121024-027	93	143 S1+	72	79
480-226209-6	SO-12656942-KP-121024-023	91	95	73	74
480-226209-6 MS	SO-12656942-KP-121024-023	94	88	75	73
480-226209-6 MSD	SO-12656942-KP-121024-023	95	90	65	69
LCS 480-735068/2-A	Lab Control Sample	88	84	72	72
MB 480-735068/1-A	Method Blank	87	87	73	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-226209-2	SO-12656942-KP-121024-027	110	108	111	118
480-226209-10	SO-12656942-KP-121024-040	116	112	115	123
480-226209-10 MS	SO-12656942-KP-121024-040	119	113	128	134
480-226209-10 MSD	SO-12656942-KP-121024-040	109	102	114	121
LCS 480-735069/2-A	Lab Control Sample	140	127	141	147
MB 480-735069/1-A	Method Blank	115	111	124	127

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	**Client Sample ID**	**DCPAA1 (28-129)**	**DCPAA2 (28-129)**								
480-226209-2	SO-12656942-KP-121024-027	72	73								
480-226209-6	SO-12656942-KP-121024-023	70	68								
480-226209-6 MS	SO-12656942-KP-121024-023	83	72								
480-226209-6 MSD	SO-12656942-KP-121024-023	70	70								
LCS 480-735338/2-A	Lab Control Sample	70	68								
MB 480-735338/1-A	Method Blank	70	71								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Isotope Dilution Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DXE (15-110)							
480-226209-14	GW-12656942-KP-121024-011	34							
LCS 480-735067/2-A	Lab Control Sample	40							
LCSD 480-735067/3-A	Lab Control Sample Dup	36							
MB 480-735067/1-A	Method Blank	39							

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)	13C7PUA (20-150)
480-226209-3	SO-12656942-KP-121024-028	87.8	103	88.1	97.0	99.5	102	85.4	93.5
480-226209-3 MS	SO-12656942-KP-121024-028	87.0	99.5	82.8	92.0	91.8	98.6	84.7	92.7
480-226209-3 MSD	SO-12656942-KP-121024-028	88.7	103	83.8	98.4	90.1	100	86.3	96.5
480-226209-11	SO-12656942-KP-121024-024	88.3	102	83.4	92.4	92.9	97.2	83.5	95.1
480-226209-11 DU	SO-12656942-KP-121024-024	88.5	95.7	84.4	90.4	92.4	96.0	89.4	90.1
LCS 240-638852/3-A	Lab Control Sample	85.3	102	85.0	92.1	94.1	97.3	85.0	96.3
LLCS 240-638852/2-A	Lab Control Sample	86.7	102	81.6	93.1	87.9	96.3	85.2	94.4
MB 240-638852/1-A	Method Blank	88.5	104	86.7	91.1	95.4	102	87.1	98.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)	M242FTS (20-150)
480-226209-3	SO-12656942-KP-121024-028	92.3	101	92.2	85.9	62.1	92.0	156 *5+	111
480-226209-3 MS	SO-12656942-KP-121024-028	84.4	96.0	90.5	79.9	63.9	87.4	111	109
480-226209-3 MSD	SO-12656942-KP-121024-028	87.8	103	92.9	83.6	62.1	88.7	159 *5+	110
480-226209-11	SO-12656942-KP-121024-024	97.3	102	94.9	80.4	68.5	84.9	123	122
480-226209-11 DU	SO-12656942-KP-121024-024	94.0	101	93.2	81.5	68.8	82.9	102	111
LCS 240-638852/3-A	Lab Control Sample	81.9	98.4	92.0	79.2	70.8	81.6	143	115
LLCS 240-638852/2-A	Lab Control Sample	83.3	98.7	94.1	82.1	71.4	91.8	152 *5+	118
MB 240-638852/1-A	Method Blank	88.1	101	92.0	80.5	73.5	89.1	141	116

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)	PFDoDA (20-150)
480-226209-3	SO-12656942-KP-121024-028	108	112	90.5	74.8	69.0	64.1	68.4	84.0
480-226209-3 MS	SO-12656942-KP-121024-028	111	112	89.6	70.3	64.7	64.0	61.2	82.2
480-226209-3 MSD	SO-12656942-KP-121024-028	105	110	94.3	74.7	70.4	66.5	69.4	86.8
480-226209-11	SO-12656942-KP-121024-024	105	117	92.7	75.9	68.4	67.0	72.3	83.7
480-226209-11 DU	SO-12656942-KP-121024-024	107	109	88.2	69.1	64.0	71.5	71.5	83.3
LCS 240-638852/3-A	Lab Control Sample	112	115	93.8	70.3	65.5	55.2	60.4	89.8
LLCS 240-638852/2-A	Lab Control Sample	114	113	91.5	73.7	68.0	57.8	60.8	83.1
MB 240-638852/1-A	Method Blank	108	116	92.6	72.0	65.6	54.4	59.2	92.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-735053/2-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.36	U	5.0	0.36	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2,2-Tetrachloroethane	0.81	U	5.0	0.81	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1,2-Trichloroethane	0.65	U	5.0	0.65	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1-Dichloroethane	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,1-Dichloroethene	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2,4-Trichlorobenzene	0.30	U	5.0	0.30	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichlorobenzene	0.39	U	5.0	0.39	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichloroethane	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dichloropropane	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2,4-Trimethylbenzene	0.96	U	5.0	0.96	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,3-Dichlorobenzene	0.26	U	5.0	0.26	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,4-Dichlorobenzene	0.70	U	5.0	0.70	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
2-Butanone (MEK)	1.8	U	25	1.8	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
2-Hexanone	2.5	U	25	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
4-Methyl-2-pentanone (MIBK)	1.6	U	25	1.6	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Acetone	4.2	U	25	4.2	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,3,5-Trimethylbenzene	0.32	U	5.0	0.32	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Benzene	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromoform	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromomethane	0.45	U	5.0	0.45	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Carbon disulfide	2.5	U	5.0	2.5	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Carbon tetrachloride	0.48	U	5.0	0.48	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chlorobenzene	0.66	U	5.0	0.66	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Dibromochloromethane	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloroethane	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloroform	0.323	J	5.0	0.31	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Chloromethane	0.30	U	5.0	0.30	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
cis-1,2-Dichloroethene	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Cyclohexane	0.70	U	5.0	0.70	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Bromodichloromethane	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Dichlorodifluoromethane	0.41	U	5.0	0.41	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Ethylbenzene	0.35	U	5.0	0.35	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
1,2-Dibromoethane	0.64	U	5.0	0.64	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Isopropylbenzene	0.75	U	5.0	0.75	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methyl acetate	3.0	U	25	3.0	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methyl tert-butyl ether	0.49	U	5.0	0.49	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methylcyclohexane	0.76	U	5.0	0.76	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Methylene Chloride	2.3	U	5.0	2.3	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
4-Isopropyltoluene	0.40	U	5.0	0.40	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Tetrachloroethene	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Toluene	0.38	U	5.0	0.38	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
trans-1,2-Dichloroethene	0.52	U	5.0	0.52	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
trans-1,3-Dichloropropene	2.2	U	5.0	2.2	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Trichloroethene	1.1	U	5.0	1.1	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Trichlorofluoromethane	0.47	U	5.0	0.47	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Vinyl chloride	0.61	U	5.0	0.61	ug/Kg		12/11/24 16:31	12/11/24 20:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-735053/2-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.67	U	5.0	0.67	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Xylenes, Total	0.84	U	10	0.84	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
cis-1,3-Dichloropropene	0.72	U	5.0	0.72	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
n-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
N-Propylbenzene	0.40	U	5.0	0.40	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
Styrene	0.25	U	5.0	0.25	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
sec-Butylbenzene	0.44	U	5.0	0.44	ug/Kg		12/11/24 16:31	12/11/24 20:21	1
tert-Butylbenzene	0.52	U	5.0	0.52	ug/Kg		12/11/24 16:31	12/11/24 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*12/11/24 16:31*	*12/11/24 20:21*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*12/11/24 16:31*	*12/11/24 20:21*	*1*

Lab Sample ID: LCS 480-735053/1-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.0		ug/Kg		94	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/Kg		95	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	46.3		ug/Kg		93	60 - 140
1,1,2-Trichloroethane	50.0	46.2		ug/Kg		92	78 - 122
1,1-Dichloroethane	50.0	46.4		ug/Kg		93	73 - 126
1,1-Dichloroethene	50.0	45.4		ug/Kg		91	59 - 125
1,2,4-Trichlorobenzene	50.0	48.2		ug/Kg		96	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/Kg		95	63 - 124
1,2-Dichlorobenzene	50.0	45.8		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	47.0		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	46.7		ug/Kg		93	75 - 124
1,2,4-Trimethylbenzene	50.0	47.5		ug/Kg		95	74 - 120
1,3-Dichlorobenzene	50.0	45.2		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.7		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	250		ug/Kg		100	70 - 134
2-Hexanone	250	234		ug/Kg		93	59 - 130
4-Methyl-2-pentanone (MIBK)	250	238		ug/Kg		95	65 - 133
Acetone	250	259		ug/Kg		104	61 - 137
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	74 - 120
Benzene	50.0	46.3		ug/Kg		93	79 - 127
Bromoform	50.0	46.8		ug/Kg		94	68 - 126
Bromomethane	50.0	49.6		ug/Kg		99	37 - 149
Carbon disulfide	50.0	44.4		ug/Kg		89	64 - 131
Carbon tetrachloride	50.0	46.0		ug/Kg		92	75 - 135
Chlorobenzene	50.0	45.0		ug/Kg		90	76 - 124
Dibromochloromethane	50.0	48.1		ug/Kg		96	76 - 125
Chloroethane	50.0	49.6		ug/Kg		99	69 - 135
Chloroform	50.0	46.2		ug/Kg		92	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-735053/1-A
Matrix: Solid
Analysis Batch: 735054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	45.1		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	81 - 120
Cyclohexane	50.0	45.5		ug/Kg		91	65 - 120
Bromodichloromethane	50.0	47.8		ug/Kg		96	80 - 122
Dichlorodifluoromethane	50.0	40.3		ug/Kg		81	57 - 142
Ethylbenzene	50.0	45.6		ug/Kg		91	80 - 120
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	78 - 120
Isopropylbenzene	50.0	47.2		ug/Kg		94	72 - 120
Methyl acetate	100	96.8		ug/Kg		97	55 - 136
Methyl tert-butyl ether	50.0	49.3		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	44.8		ug/Kg		90	60 - 140
Methylene Chloride	50.0	49.5		ug/Kg		99	61 - 127
4-Isopropyltoluene	50.0	46.9		ug/Kg		94	74 - 120
Tetrachloroethene	50.0	44.4		ug/Kg		89	74 - 122
Toluene	50.0	45.1		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	78 - 126
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	73 - 123
Trichloroethene	50.0	45.8		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	65 - 146
Vinyl chloride	50.0	47.7		ug/Kg		95	61 - 133
Naphthalene	50.0	48.8		ug/Kg		98	38 - 137
cis-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	80 - 120
n-Butylbenzene	50.0	46.6		ug/Kg		93	70 - 120
N-Propylbenzene	50.0	45.9		ug/Kg		92	70 - 130
Styrene	50.0	45.3		ug/Kg		91	80 - 120
sec-Butylbenzene	50.0	47.1		ug/Kg		94	74 - 120
tert-Butylbenzene	50.0	47.0		ug/Kg		94	73 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 480-735106/8
Matrix: Water
Analysis Batch: 735106

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.82	U	1.0	0.82	ug/L			12/12/24 13:28	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			12/12/24 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	U	1.0	0.31	ug/L			12/12/24 13:28	1
1,1,2-Trichloroethane	0.23	U	1.0	0.23	ug/L			12/12/24 13:28	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			12/12/24 13:28	1
1,1-Dichloroethene	0.29	U	1.0	0.29	ug/L			12/12/24 13:28	1
1,2,4-Trichlorobenzene	0.41	U	1.0	0.41	ug/L			12/12/24 13:28	1
1,2-Dibromo-3-Chloropropane	0.39	U	1.0	0.39	ug/L			12/12/24 13:28	1
1,2-Dichlorobenzene	0.79	U	1.0	0.79	ug/L			12/12/24 13:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-735106/8
Matrix: Water
Analysis Batch: 735106

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.21	U	1.0	0.21	ug/L			12/12/24 13:28	1
1,2-Dichloropropane	0.72	U	1.0	0.72	ug/L			12/12/24 13:28	1
1,2,4-Trimethylbenzene	0.75	U	1.0	0.75	ug/L			12/12/24 13:28	1
1,3-Dichlorobenzene	0.78	U	1.0	0.78	ug/L			12/12/24 13:28	1
1,4-Dichlorobenzene	0.84	U	1.0	0.84	ug/L			12/12/24 13:28	1
2-Butanone (MEK)	1.3	U	10	1.3	ug/L			12/12/24 13:28	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			12/12/24 13:28	1
4-Methyl-2-pentanone (MIBK)	2.1	U	5.0	2.1	ug/L			12/12/24 13:28	1
Acetone	3.0	U	10	3.0	ug/L			12/12/24 13:28	1
1,3,5-Trimethylbenzene	0.77	U	1.0	0.77	ug/L			12/12/24 13:28	1
Benzene	0.41	U	1.0	0.41	ug/L			12/12/24 13:28	1
Bromoform	0.26	U	1.0	0.26	ug/L			12/12/24 13:28	1
Bromomethane	0.69	U	1.0	0.69	ug/L			12/12/24 13:28	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			12/12/24 13:28	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			12/12/24 13:28	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			12/12/24 13:28	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			12/12/24 13:28	1
Chloroethane	0.32	U	1.0	0.32	ug/L			12/12/24 13:28	1
Chloroform	0.34	U	1.0	0.34	ug/L			12/12/24 13:28	1
Chloromethane	0.35	U	1.0	0.35	ug/L			12/12/24 13:28	1
cis-1,2-Dichloroethene	0.81	U	1.0	0.81	ug/L			12/12/24 13:28	1
Cyclohexane	0.18	U	1.0	0.18	ug/L			12/12/24 13:28	1
Bromodichloromethane	0.39	U	1.0	0.39	ug/L			12/12/24 13:28	1
Dichlorodifluoromethane	0.68	U	1.0	0.68	ug/L			12/12/24 13:28	1
Ethylbenzene	0.74	U	1.0	0.74	ug/L			12/12/24 13:28	1
1,2-Dibromoethane	0.73	U	1.0	0.73	ug/L			12/12/24 13:28	1
Isopropylbenzene	0.79	U	1.0	0.79	ug/L			12/12/24 13:28	1
Methyl acetate	1.3	U	2.5	1.3	ug/L			12/12/24 13:28	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			12/12/24 13:28	1
Methylcyclohexane	0.16	U	1.0	0.16	ug/L			12/12/24 13:28	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			12/12/24 13:28	1
4-Isopropyltoluene	0.31	U	1.0	0.31	ug/L			12/12/24 13:28	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			12/12/24 13:28	1
Toluene	0.51	U	1.0	0.51	ug/L			12/12/24 13:28	1
trans-1,2-Dichloroethene	0.90	U	1.0	0.90	ug/L			12/12/24 13:28	1
trans-1,3-Dichloropropene	0.37	U	1.0	0.37	ug/L			12/12/24 13:28	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			12/12/24 13:28	1
Trichlorofluoromethane	0.88	U	1.0	0.88	ug/L			12/12/24 13:28	1
Vinyl chloride	0.90	U	1.0	0.90	ug/L			12/12/24 13:28	1
Naphthalene	0.43	U	1.0	0.43	ug/L			12/12/24 13:28	1
Xylenes, Total	0.66	U	2.0	0.66	ug/L			12/12/24 13:28	1
cis-1,3-Dichloropropene	0.36	U	1.0	0.36	ug/L			12/12/24 13:28	1
n-Butylbenzene	0.64	U	1.0	0.64	ug/L			12/12/24 13:28	1
N-Propylbenzene	0.69	U	1.0	0.69	ug/L			12/12/24 13:28	1
Styrene	0.73	U	1.0	0.73	ug/L			12/12/24 13:28	1
sec-Butylbenzene	0.75	U	1.0	0.75	ug/L			12/12/24 13:28	1
tert-Butylbenzene	0.81	U	1.0	0.81	ug/L			12/12/24 13:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-735106/8
Matrix: Water
Analysis Batch: 735106

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		12/12/24 13:28	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		12/12/24 13:28	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/12/24 13:28	1
Dibromofluoromethane (Surr)	101		75 - 123		12/12/24 13:28	1

Lab Sample ID: LCS 480-735106/6
Matrix: Water
Analysis Batch: 735106

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	61 - 148
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	23.4		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	26.0		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	22.4		ug/L		90	75 - 120
1,2-Dichloropropane	25.0	23.2		ug/L		93	76 - 120
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	76 - 121
1,3-Dichlorobenzene	25.0	25.4		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Butanone (MEK)	125	111		ug/L		89	57 - 140
2-Hexanone	125	115		ug/L		92	65 - 127
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	71 - 125
Acetone	125	118		ug/L		95	56 - 142
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	77 - 121
Benzene	25.0	22.8		ug/L		91	71 - 124
Bromoform	25.0	25.2		ug/L		101	61 - 132
Bromomethane	25.0	23.1		ug/L		93	55 - 144
Carbon disulfide	25.0	24.7		ug/L		99	59 - 134
Carbon tetrachloride	25.0	24.7		ug/L		99	72 - 134
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120
Dibromochloromethane	25.0	23.9		ug/L		96	75 - 125
Chloroethane	25.0	24.2		ug/L		97	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	22.6		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	74 - 124
Cyclohexane	25.0	23.2		ug/L		93	59 - 135
Bromodichloromethane	25.0	23.8		ug/L		95	80 - 122
Dichlorodifluoromethane	25.0	24.6		ug/L		99	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	50.0	49.5		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	22.0		ug/L		88	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-735106/6
Matrix: Water
Analysis Batch: 735106

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylcyclohexane	25.0	23.9		ug/L		96	68 - 134
Methylene Chloride	25.0	25.9		ug/L		103	75 - 124
4-Isopropyltoluene	25.0	25.6		ug/L		103	73 - 120
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	23.5		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	25.1		ug/L		101	80 - 120
Trichloroethene	25.0	23.4		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		104	62 - 150
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133
Naphthalene	25.0	23.5		ug/L		94	66 - 125
cis-1,3-Dichloropropene	25.0	24.1		ug/L		97	74 - 124
n-Butylbenzene	25.0	26.2		ug/L		105	71 - 128
N-Propylbenzene	25.0	25.3		ug/L		101	75 - 127
Styrene	25.0	25.2		ug/L		101	80 - 120
sec-Butylbenzene	25.0	25.4		ug/L		102	74 - 127
tert-Butylbenzene	25.0	26.1		ug/L		105	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

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

Lab Sample ID: MB 480-735139/1-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	0.65	U	5.0	0.65	ug/L		12/12/24 14:26	12/13/24 18:24	1
bis (2-chloroisopropyl) ether	0.52	U	5.0	0.52	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4,5-Trichlorophenol	0.48	U	5.0	0.48	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4,6-Trichlorophenol	0.61	U	5.0	0.61	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4-Dichlorophenol	0.51	U	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4-Dimethylphenol	0.50	U	5.0	0.50	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4-Dinitrophenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,4-Dinitrotoluene	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 18:24	1
2,6-Dinitrotoluene	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Chloronaphthalene	0.46	U	5.0	0.46	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Chlorophenol	0.53	U	5.0	0.53	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Methylphenol	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Methylnaphthalene	0.60	U	5.0	0.60	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Nitroaniline	0.42	U	10	0.42	ug/L		12/12/24 14:26	12/13/24 18:24	1
2-Nitrophenol	0.48	U	5.0	0.48	ug/L		12/12/24 14:26	12/13/24 18:24	1
3,3'-Dichlorobenzidine	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 18:24	1
3-Nitroaniline	0.48	U	10	0.48	ug/L		12/12/24 14:26	12/13/24 18:24	1
4,6-Dinitro-2-methylphenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 18:24	1

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

Lab Sample ID: MB 480-735139/1-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Chloro-3-methylphenol	0.45	U	5.0	0.45	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Chloroaniline	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Chlorophenyl phenyl ether	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Methylphenol	0.36	U	10	0.36	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Nitroaniline	0.25	U	10	0.25	ug/L		12/12/24 14:26	12/13/24 18:24	1
4-Nitrophenol	1.5	U	10	1.5	ug/L		12/12/24 14:26	12/13/24 18:24	1
Acenaphthene	0.41	U	5.0	0.41	ug/L		12/12/24 14:26	12/13/24 18:24	1
Acenaphthylene	0.38	U	5.0	0.38	ug/L		12/12/24 14:26	12/13/24 18:24	1
Acetophenone	0.54	U	5.0	0.54	ug/L		12/12/24 14:26	12/13/24 18:24	1
Anthracene	0.28	U	5.0	0.28	ug/L		12/12/24 14:26	12/13/24 18:24	1
Atrazine	0.46	U	5.0	0.46	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzaldehyde	0.27	U	5.0	0.27	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzo[a]anthracene	0.36	U	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzo[a]pyrene	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzo[b]fluoranthene	0.34	U	5.0	0.34	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzo[g,h,i]perylene	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 18:24	1
Benzo[k]fluoranthene	0.73	U	5.0	0.73	ug/L		12/12/24 14:26	12/13/24 18:24	1
Bis(2-chloroethoxy)methane	0.35	U	5.0	0.35	ug/L		12/12/24 14:26	12/13/24 18:24	1
Bis(2-chloroethyl)ether	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 18:24	1
Bis(2-ethylhexyl) phthalate	2.2	U	5.0	2.2	ug/L		12/12/24 14:26	12/13/24 18:24	1
Butyl benzyl phthalate	1.0	U	5.0	1.0	ug/L		12/12/24 14:26	12/13/24 18:24	1
Caprolactam	2.2	U	5.0	2.2	ug/L		12/12/24 14:26	12/13/24 18:24	1
Carbazole	0.30	U	5.0	0.30	ug/L		12/12/24 14:26	12/13/24 18:24	1
Chrysene	0.33	U	5.0	0.33	ug/L		12/12/24 14:26	12/13/24 18:24	1
Dibenz(a,h)anthracene	0.42	U	5.0	0.42	ug/L		12/12/24 14:26	12/13/24 18:24	1
Di-n-butyl phthalate	0.31	U	5.0	0.31	ug/L		12/12/24 14:26	12/13/24 18:24	1
Di-n-octyl phthalate	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 18:24	1
Dibenzofuran	0.51	U	10	0.51	ug/L		12/12/24 14:26	12/13/24 18:24	1
Diethyl phthalate	0.22	U	5.0	0.22	ug/L		12/12/24 14:26	12/13/24 18:24	1
Dimethyl phthalate	0.36	U	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 18:24	1
Fluoranthene	0.40	U	5.0	0.40	ug/L		12/12/24 14:26	12/13/24 18:24	1
Fluorene	0.36	U	5.0	0.36	ug/L		12/12/24 14:26	12/13/24 18:24	1
Hexachlorobenzene	0.51	U	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 18:24	1
Hexachlorobutadiene	0.68	U	5.0	0.68	ug/L		12/12/24 14:26	12/13/24 18:24	1
Hexachlorocyclopentadiene	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 18:24	1
Hexachloroethane	0.59	U	5.0	0.59	ug/L		12/12/24 14:26	12/13/24 18:24	1
Indeno[1,2,3-cd]pyrene	0.47	U	5.0	0.47	ug/L		12/12/24 14:26	12/13/24 18:24	1
Isophorone	0.43	U	5.0	0.43	ug/L		12/12/24 14:26	12/13/24 18:24	1
N-Nitrosodi-n-propylamine	0.54	U	5.0	0.54	ug/L		12/12/24 14:26	12/13/24 18:24	1
N-Nitrosodiphenylamine	0.51	U	5.0	0.51	ug/L		12/12/24 14:26	12/13/24 18:24	1
Naphthalene	0.76	U	5.0	0.76	ug/L		12/12/24 14:26	12/13/24 18:24	1
Nitrobenzene	0.29	U	5.0	0.29	ug/L		12/12/24 14:26	12/13/24 18:24	1
Pentachlorophenol	2.2	U	10	2.2	ug/L		12/12/24 14:26	12/13/24 18:24	1
Phenanthrene	0.44	U	5.0	0.44	ug/L		12/12/24 14:26	12/13/24 18:24	1
Phenol	0.39	U	5.0	0.39	ug/L		12/12/24 14:26	12/13/24 18:24	1
Pyrene	0.34	U	5.0	0.34	ug/L		12/12/24 14:26	12/13/24 18:24	1

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

Lab Sample ID: MB 480-735139/1-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735139

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	64		29 - 129	12/12/24 14:26	12/13/24 18:24	1
Phenol-d5 (Surr)	29		10 - 120	12/12/24 14:26	12/13/24 18:24	1
p-Terphenyl-d14 (Surr)	89		33 - 132	12/12/24 14:26	12/13/24 18:24	1
2,4,6-Tribromophenol (Surr)	102		25 - 144	12/12/24 14:26	12/13/24 18:24	1
2-Fluorobiphenyl (Surr)	68		53 - 126	12/12/24 14:26	12/13/24 18:24	1
2-Fluorophenol (Surr)	45		24 - 120	12/12/24 14:26	12/13/24 18:24	1

Lab Sample ID: LCS 480-735139/2-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	32.0	26.2		ug/L		82	59 - 120
bis (2-chloroisopropyl) ether	32.0	19.9		ug/L		62	21 - 136
2,4,5-Trichlorophenol	32.0	35.5		ug/L		111	65 - 126
2,4,6-Trichlorophenol	32.0	27.8		ug/L		87	64 - 120
2,4-Dichlorophenol	32.0	30.0		ug/L		94	63 - 120
2,4-Dimethylphenol	32.0	29.6		ug/L		93	47 - 120
2,4-Dinitrophenol	64.0	63.7		ug/L		100	31 - 137
2,4-Dinitrotoluene	32.0	34.2		ug/L		107	69 - 120
2,6-Dinitrotoluene	32.0	31.5		ug/L		98	68 - 120
2-Chloronaphthalene	32.0	31.0		ug/L		97	58 - 120
2-Chlorophenol	32.0	26.1		ug/L		82	48 - 120
2-Methylphenol	32.0	24.7		ug/L		77	39 - 120
2-Methylnaphthalene	32.0	26.8		ug/L		84	59 - 120
2-Nitroaniline	32.0	29.4		ug/L		92	54 - 127
2-Nitrophenol	32.0	29.2		ug/L		91	52 - 125
3,3'-Dichlorobenzidine	32.0	27.4		ug/L		86	49 - 135
3-Nitroaniline	32.0	24.6		ug/L		77	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.9		ug/L		105	46 - 136
4-Bromophenyl phenyl ether	32.0	35.6		ug/L		111	65 - 120
4-Chloro-3-methylphenol	32.0	32.1		ug/L		100	61 - 123
4-Chloroaniline	32.0	23.9		ug/L		75	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.7		ug/L		102	62 - 120
4-Methylphenol	32.0	22.8		ug/L		71	29 - 131
4-Nitroaniline	32.0	30.6		ug/L		96	65 - 120
4-Nitrophenol	64.0	65.4		ug/L		102	45 - 120
Acenaphthene	32.0	28.6		ug/L		89	60 - 120
Acenaphthylene	32.0	29.7		ug/L		93	63 - 120
Acetophenone	32.0	29.0		ug/L		91	45 - 120
Anthracene	32.0	33.4		ug/L		104	67 - 120
Atrazine	32.0	45.1	*+	ug/L		141	71 - 130
Benzaldehyde	32.0	28.2		ug/L		88	10 - 140
Benzo[a]anthracene	32.0	32.0		ug/L		100	70 - 121
Benzo[a]pyrene	32.0	33.0		ug/L		103	60 - 123
Benzo[b]fluoranthene	32.0	35.3		ug/L		110	66 - 126
Benzo[g,h,i]perylene	32.0	35.3		ug/L		110	66 - 150
Benzo[k]fluoranthene	32.0	31.1		ug/L		97	65 - 124

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

Lab Sample ID: LCS 480-735139/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735218 — **Prep Batch: 735139**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethoxy)methane	32.0	24.6		ug/L		77	50 - 128
Bis(2-chloroethyl)ether	32.0	26.7		ug/L		84	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.9		ug/L		96	63 - 139
Butyl benzyl phthalate	32.0	32.4		ug/L		101	70 - 129
Caprolactam	32.0	9.55		ug/L		30	22 - 120
Carbazole	32.0	33.6		ug/L		105	66 - 123
Chrysene	32.0	32.1		ug/L		100	69 - 120
Dibenz(a,h)anthracene	32.0	35.9		ug/L		112	65 - 135
Di-n-butyl phthalate	32.0	35.5		ug/L		111	69 - 131
Di-n-octyl phthalate	32.0	32.2		ug/L		101	63 - 140
Dibenzofuran	32.0	29.9		ug/L		93	66 - 120
Diethyl phthalate	32.0	36.4		ug/L		114	59 - 127
Dimethyl phthalate	32.0	34.6		ug/L		108	68 - 120
Fluoranthene	32.0	36.0		ug/L		113	69 - 126
Fluorene	32.0	31.6		ug/L		99	66 - 120
Hexachlorobenzene	32.0	42.2	*+	ug/L		132	61 - 120
Hexachlorobutadiene	32.0	27.5		ug/L		86	35 - 120
Hexachlorocyclopentadiene	32.0	13.5		ug/L		42	31 - 120
Hexachloroethane	32.0	22.9		ug/L		72	33 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.5		ug/L		111	69 - 146
Isophorone	32.0	27.7		ug/L		87	55 - 120
N-Nitrosodi-n-propylamine	32.0	27.1		ug/L		85	32 - 140
N-Nitrosodiphenylamine	32.0	29.2		ug/L		91	61 - 120
Naphthalene	32.0	26.0		ug/L		81	57 - 120
Nitrobenzene	32.0	27.4		ug/L		86	53 - 123
Pentachlorophenol	64.0	72.0		ug/L		113	10 - 136
Phenanthrene	32.0	31.4		ug/L		98	68 - 120
Phenol	32.0	14.3		ug/L		45	17 - 120
Pyrene	32.0	32.7		ug/L		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*87*		*29 - 129*
Phenol-d5 (Surr)	*44*		*10 - 120*
p-Terphenyl-d14 (Surr)	*104*		*33 - 132*
2,4,6-Tribromophenol (Surr)	*134*		*25 - 144*
2-Fluorobiphenyl (Surr)	*90*		*53 - 126*
2-Fluorophenol (Surr)	*60*		*24 - 120*

Lab Sample ID: LCSD 480-735139/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735218 — **Prep Batch: 735139**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biphenyl	32.0	24.5		ug/L		77	59 - 120	7	20
bis (2-chloroisopropyl) ether	32.0	17.8		ug/L		56	21 - 136	11	24
2,4,5-Trichlorophenol	32.0	33.7		ug/L		105	65 - 126	5	18
2,4,6-Trichlorophenol	32.0	27.1		ug/L		85	64 - 120	2	19
2,4-Dichlorophenol	32.0	26.9		ug/L		84	63 - 120	11	19

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

Lab Sample ID: LCSD 480-735139/3-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 735139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	32.0	27.3		ug/L		85	47 - 120	8	42
2,4-Dinitrophenol	64.0	59.8		ug/L		93	31 - 137	6	22
2,4-Dinitrotoluene	32.0	33.2		ug/L		104	69 - 120	3	20
2,6-Dinitrotoluene	32.0	30.5		ug/L		95	68 - 120	3	15
2-Chloronaphthalene	32.0	28.5		ug/L		89	58 - 120	8	21
2-Chlorophenol	32.0	24.0		ug/L		75	48 - 120	9	25
2-Methylphenol	32.0	22.5		ug/L		70	39 - 120	9	27
2-Methylnaphthalene	32.0	23.9		ug/L		75	59 - 120	11	21
2-Nitroaniline	32.0	27.6		ug/L		86	54 - 127	6	15
2-Nitrophenol	32.0	26.3		ug/L		82	52 - 125	11	18
3,3'-Dichlorobenzidine	32.0	25.1		ug/L		78	49 - 135	9	25
3-Nitroaniline	32.0	23.3		ug/L		73	51 - 120	6	19
4,6-Dinitro-2-methylphenol	64.0	62.1		ug/L		97	46 - 136	8	15
4-Bromophenyl phenyl ether	32.0	32.5		ug/L		102	65 - 120	9	15
4-Chloro-3-methylphenol	32.0	29.3		ug/L		92	61 - 123	9	27
4-Chloroaniline	32.0	21.9		ug/L		68	30 - 120	9	22
4-Chlorophenyl phenyl ether	32.0	29.9		ug/L		94	62 - 120	9	16
4-Methylphenol	32.0	21.9		ug/L		68	29 - 131	4	24
4-Nitroaniline	32.0	30.2		ug/L		94	65 - 120	1	24
4-Nitrophenol	64.0	60.7		ug/L		95	45 - 120	7	48
Acenaphthene	32.0	26.7		ug/L		83	60 - 120	7	24
Acenaphthylene	32.0	28.2		ug/L		88	63 - 120	5	18
Acetophenone	32.0	26.7		ug/L		83	45 - 120	8	20
Anthracene	32.0	31.0		ug/L		97	67 - 120	7	15
Atrazine	32.0	42.5	*+	ug/L		133	71 - 130	6	20
Benzaldehyde	32.0	25.6		ug/L		80	10 - 140	10	20
Benzo[a]anthracene	32.0	29.8		ug/L		93	70 - 121	7	15
Benzo[a]pyrene	32.0	30.2		ug/L		94	60 - 123	9	15
Benzo[b]fluoranthene	32.0	30.9		ug/L		96	66 - 126	13	15
Benzo[g,h,i]perylene	32.0	32.6		ug/L		102	66 - 150	8	15
Benzo[k]fluoranthene	32.0	30.6		ug/L		95	65 - 124	2	22
Bis(2-chloroethoxy)methane	32.0	21.8		ug/L		68	50 - 128	12	17
Bis(2-chloroethyl)ether	32.0	24.9		ug/L		78	44 - 120	7	21
Bis(2-ethylhexyl) phthalate	32.0	27.9		ug/L		87	63 - 139	10	15
Butyl benzyl phthalate	32.0	29.7		ug/L		93	70 - 129	9	16
Caprolactam	32.0	8.62		ug/L		27	22 - 120	10	20
Carbazole	32.0	31.2		ug/L		97	66 - 123	7	20
Chrysene	32.0	29.7		ug/L		93	69 - 120	8	15
Dibenz(a,h)anthracene	32.0	32.8		ug/L		103	65 - 135	9	15
Di-n-butyl phthalate	32.0	33.1		ug/L		104	69 - 131	7	15
Di-n-octyl phthalate	32.0	28.8		ug/L		90	63 - 140	11	16
Dibenzofuran	32.0	28.2		ug/L		88	66 - 120	6	15
Diethyl phthalate	32.0	34.9		ug/L		109	59 - 127	4	15
Dimethyl phthalate	32.0	33.1		ug/L		103	68 - 120	5	15
Fluoranthene	32.0	33.0		ug/L		103	69 - 126	9	15
Fluorene	32.0	30.1		ug/L		94	66 - 120	5	15
Hexachlorobenzene	32.0	39.1	*+	ug/L		122	61 - 120	8	15
Hexachlorobutadiene	32.0	24.3		ug/L		76	35 - 120	12	44
Hexachlorocyclopentadiene	32.0	12.7		ug/L		40	31 - 120	6	49

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

Lab Sample ID: LCSD 480-735139/3-A
Matrix: Water
Analysis Batch: 735218

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 735139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachloroethane	32.0	21.0		ug/L		65	33 - 120	9	46
Indeno[1,2,3-cd]pyrene	32.0	32.2		ug/L		101	69 - 146	10	15
Isophorone	32.0	25.5		ug/L		80	55 - 120	8	17
N-Nitrosodi-n-propylamine	32.0	24.4		ug/L		76	32 - 140	10	31
N-Nitrosodiphenylamine	32.0	28.0		ug/L		87	61 - 120	4	15
Naphthalene	32.0	24.0		ug/L		75	57 - 120	8	29
Nitrobenzene	32.0	25.1		ug/L		79	53 - 123	9	24
Pentachlorophenol	64.0	70.8		ug/L		111	10 - 136	2	37
Phenanthrene	32.0	29.2		ug/L		91	68 - 120	8	15
Phenol	32.0	12.8		ug/L		40	17 - 120	10	34
Pyrene	32.0	29.7		ug/L		93	70 - 125	10	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*79*		*29 - 129*
Phenol-d5 (Surr)	*39*		*10 - 120*
p-Terphenyl-d14 (Surr)	*95*		*33 - 132*
2,4,6-Tribromophenol (Surr)	*122*		*25 - 144*
2-Fluorobiphenyl (Surr)	*83*		*53 - 126*
2-Fluorophenol (Surr)	*54*		*24 - 120*

Lab Sample ID: MB 480-735339/1-A
Matrix: Solid
Analysis Batch: 735371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	25	U	170	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
bis (2-chloroisopropyl) ether	34	U	170	34	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4,5-Trichlorophenol	46	U	170	46	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4,6-Trichlorophenol	34	U	170	34	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4-Dichlorophenol	18	U	170	18	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4-Dimethylphenol	41	U	170	41	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4-Dinitrophenol	780	U	1700	780	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,4-Dinitrotoluene	35	U	170	35	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2,6-Dinitrotoluene	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Chloronaphthalene	28	U	170	28	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
1,4-Dioxane	55	U	100	55	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Chlorophenol	31	U	330	31	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Methylphenol	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Methylnaphthalene	34	U	170	34	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Nitroaniline	25	U	330	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
2-Nitrophenol	48	U	170	48	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
3,3'-Dichlorobenzidine	200	U	330	200	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
3-Nitroaniline	47	U	330	47	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4,6-Dinitro-2-methylphenol	170	U	330	170	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Bromophenyl phenyl ether	24	U	170	24	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Chloro-3-methylphenol	42	U	170	42	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Chloroaniline	42	U	170	42	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Chlorophenyl phenyl ether	21	U	170	21	ug/Kg		12/15/24 07:11	12/16/24 12:12	1

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

Lab Sample ID: MB 480-735339/1-A
Matrix: Solid
Analysis Batch: 735371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	20	U	330	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Nitroaniline	89	U	330	89	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
4-Nitrophenol	120	U	330	120	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Acenaphthene	25	U	170	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Acenaphthylene	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Acetophenone	23	U	170	23	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Anthracene	42	U	170	42	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Atrazine	59	U	170	59	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzaldehyde	140	U	170	140	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzo[a]anthracene	17	U	170	17	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzo[a]pyrene	25	U	170	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzo[b]fluoranthene	27	U	170	27	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzo[g,h,i]perylene	18	U	170	18	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Benzo[k]fluoranthene	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Bis(2-chloroethoxy)methane	36	U	170	36	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Bis(2-chloroethyl)ether	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Bis(2-ethylhexyl) phthalate	58	U	170	58	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Butyl benzyl phthalate	28	U	170	28	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Caprolactam	51	U	170	51	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Carbazole	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Chrysene	38	U	170	38	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Dibenz(a,h)anthracene	30	U	170	30	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Di-n-butyl phthalate	34.7	J	170	29	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Di-n-octyl phthalate	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Dibenzofuran	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Diethyl phthalate	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Dimethyl phthalate	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Fluoranthene	18	U	170	18	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Fluorene	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Hexachlorobenzene	23	U	170	23	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Hexachlorobutadiene	25	U	170	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Hexachlorocyclopentadiene	23	U	170	23	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Hexachloroethane	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Indeno[1,2,3-cd]pyrene	21	U	170	21	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Isophorone	36	U	170	36	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
N-Nitrosodi-n-propylamine	29	U	170	29	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
N-Nitrosodiphenylamine	140	U	170	140	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Naphthalene	22	U	170	22	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Nitrobenzene	19	U	170	19	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Pentachlorophenol	170	U	330	170	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Phenanthrene	25	U	170	25	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Phenol	26	U	170	26	ug/Kg		12/15/24 07:11	12/16/24 12:12	1
Pyrene	20	U	170	20	ug/Kg		12/15/24 07:11	12/16/24 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*40 - 121*	*12/15/24 07:11*	*12/16/24 12:12*	*1*
Phenol-d5 (Surr)	*86*		*41 - 120*	*12/15/24 07:11*	*12/16/24 12:12*	*1*
p-Terphenyl-d14 (Surr)	*100*		*46 - 143*	*12/15/24 07:11*	*12/16/24 12:12*	*1*

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

Lab Sample ID: MB 480-735339/1-A
Matrix: Solid
Analysis Batch: 735371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735339

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		26 - 143	12/15/24 07:11	12/16/24 12:12	1
2-Fluorobiphenyl (Surr)	90		50 - 121	12/15/24 07:11	12/16/24 12:12	1
2-Fluorophenol (Surr)	78		36 - 120	12/15/24 07:11	12/16/24 12:12	1

Lab Sample ID: LCS 480-735339/2-A
Matrix: Solid
Analysis Batch: 735371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biphenyl	1330	1200		ug/Kg		90	59 - 120
bis (2-chloroisopropyl) ether	1330	1080		ug/Kg		81	44 - 120
2,4,5-Trichlorophenol	1330	1280		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1330	1220		ug/Kg		92	59 - 123
2,4-Dichlorophenol	1330	1180		ug/Kg		88	61 - 120
2,4-Dimethylphenol	1330	1150		ug/Kg		87	59 - 120
2,4-Dinitrophenol	2670	2690		ug/Kg		101	41 - 146
2,4-Dinitrotoluene	1330	1240		ug/Kg		93	63 - 120
2,6-Dinitrotoluene	1330	1290		ug/Kg		97	66 - 120
2-Chloronaphthalene	1330	1170		ug/Kg		88	57 - 120
1,4-Dioxane	1330	613		ug/Kg		46	23 - 120
2-Chlorophenol	1330	1070		ug/Kg		80	53 - 120
2-Methylphenol	1330	1120		ug/Kg		84	54 - 120
2-Methylnaphthalene	1330	1140		ug/Kg		85	59 - 120
2-Nitroaniline	1330	1180		ug/Kg		88	61 - 120
2-Nitrophenol	1330	1140		ug/Kg		85	56 - 120
3,3'-Dichlorobenzidine	1330	912		ug/Kg		68	54 - 120
3-Nitroaniline	1330	953		ug/Kg		71	48 - 120
4,6-Dinitro-2-methylphenol	2670	2550		ug/Kg		96	49 - 122
4-Bromophenyl phenyl ether	1330	1310		ug/Kg		98	58 - 120
4-Chloro-3-methylphenol	1330	1220		ug/Kg		92	61 - 120
4-Chloroaniline	1330	903		ug/Kg		68	38 - 120
4-Chlorophenyl phenyl ether	1330	1260		ug/Kg		94	63 - 124
4-Methylphenol	1330	1150		ug/Kg		86	55 - 120
4-Nitroaniline	1330	1180		ug/Kg		88	56 - 120
4-Nitrophenol	2670	2340		ug/Kg		88	43 - 147
Acenaphthene	1330	1240		ug/Kg		93	62 - 120
Acenaphthylene	1330	1270		ug/Kg		95	58 - 121
Acetophenone	1330	1100		ug/Kg		82	54 - 120
Anthracene	1330	1260		ug/Kg		94	62 - 120
Atrazine	1330	1310		ug/Kg		98	60 - 127
Benzaldehyde	1330	1110		ug/Kg		84	10 - 150
Benzo[a]anthracene	1330	1260		ug/Kg		95	65 - 120
Benzo[a]pyrene	1330	1300		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1330	1220		ug/Kg		91	64 - 120
Benzo[g,h,i]perylene	1330	1320		ug/Kg		99	45 - 145
Benzo[k]fluoranthene	1330	1430		ug/Kg		108	65 - 120
Bis(2-chloroethoxy)methane	1330	1150		ug/Kg		86	55 - 120
Bis(2-chloroethyl)ether	1330	1070		ug/Kg		80	45 - 120

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

Lab Sample ID: LCS 480-735339/2-A
Matrix: Solid
Analysis Batch: 735371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	1330	1290		ug/Kg		97	61 - 133
Butyl benzyl phthalate	1330	1290		ug/Kg		97	61 - 129
Caprolactam	1330	1200		ug/Kg		90	47 - 120
Carbazole	1330	1240		ug/Kg		93	65 - 120
Chrysene	1330	1260		ug/Kg		95	64 - 120
Dibenz(a,h)anthracene	1330	1330		ug/Kg		100	54 - 132
Di-n-butyl phthalate	1330	1290		ug/Kg		97	58 - 130
Di-n-octyl phthalate	1330	1300		ug/Kg		97	57 - 133
Dibenzofuran	1330	1230		ug/Kg		92	63 - 120
Diethyl phthalate	1330	1300		ug/Kg		98	66 - 120
Dimethyl phthalate	1330	1260		ug/Kg		95	65 - 124
Fluoranthene	1330	1250		ug/Kg		94	62 - 120
Fluorene	1330	1280		ug/Kg		96	63 - 120
Hexachlorobenzene	1330	1290		ug/Kg		97	60 - 120
Hexachlorobutadiene	1330	1080		ug/Kg		81	45 - 120
Hexachlorocyclopentadiene	1330	1180		ug/Kg		89	47 - 120
Hexachloroethane	1330	1000		ug/Kg		75	41 - 120
Indeno[1,2,3-cd]pyrene	1330	1320		ug/Kg		99	56 - 134
Isophorone	1330	1190		ug/Kg		89	56 - 120
N-Nitrosodi-n-propylamine	1330	1120		ug/Kg		84	52 - 120
N-Nitrosodiphenylamine	1330	1270		ug/Kg		95	51 - 128
Naphthalene	1330	1100		ug/Kg		83	55 - 120
Nitrobenzene	1330	1090		ug/Kg		82	54 - 120
Pentachlorophenol	2670	2590		ug/Kg		97	10 - 120
Phenanthrene	1330	1260		ug/Kg		95	60 - 120
Phenol	1330	1080		ug/Kg		81	53 - 120
Pyrene	1330	1320		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*81*		*40 - 121*
Phenol-d5 (Surr)	*82*		*41 - 120*
p-Terphenyl-d14 (Surr)	*97*		*46 - 143*
2,4,6-Tribromophenol (Surr)	*100*		*26 - 143*
2-Fluorobiphenyl (Surr)	*89*		*50 - 121*
2-Fluorophenol (Surr)	*77*		*36 - 120*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-735067/1-A
Matrix: Water
Analysis Batch: 735225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.10	U	0.20	0.10	ug/L		12/12/24 07:20	12/13/24 12:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*39*		*15 - 110*	*12/12/24 07:20*	*12/13/24 12:21*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 480-735067/2-A
Matrix: Water
Analysis Batch: 735225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735067

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			2.00	2.19		ug/L		109	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*40*		*15 - 110*

Lab Sample ID: LCSD 480-735067/3-A
Matrix: Water
Analysis Batch: 735225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 735067

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			2.00	2.12		ug/L		106	40 - 140	3	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*36*		*15 - 110*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-735068/1-A
Matrix: Solid
Analysis Batch: 735362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.32	U	1.7	0.32	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
4,4'-DDE	0.35	U	1.7	0.35	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
4,4'-DDT	0.39	U	1.7	0.39	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Aldrin	0.41	U	1.7	0.41	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
alpha-BHC	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
cis-Chlordane	0.83	U	1.7	0.83	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
beta-BHC	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
delta-BHC	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Dieldrin	0.40	U	1.7	0.40	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan I	0.32	U	1.7	0.32	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan II	0.30	U	1.7	0.30	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endosulfan sulfate	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin	0.33	U	1.7	0.33	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin aldehyde	0.43	U	1.7	0.43	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Endrin ketone	0.41	U	1.7	0.41	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
gamma-BHC (Lindane)	0.31	U	1.7	0.31	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
trans-Chlordane	0.53	U	1.7	0.53	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Heptachlor	0.36	U	1.7	0.36	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Heptachlor epoxide	0.43	U	1.7	0.43	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Methoxychlor	0.34	U	1.7	0.34	ug/Kg		12/12/24 07:25	12/16/24 09:53	1
Toxaphene	9.7	U	17	9.7	ug/Kg		12/12/24 07:25	12/16/24 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 09:53*	*1*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*12/12/24 07:25*	*12/16/24 09:53*	*1*

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

Lab Sample ID: MB 480-735068/1-A
Matrix: Solid
Analysis Batch: 735362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735068

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		30 - 124	12/12/24 07:25	12/16/24 09:53	1
Tetrachloro-m-xylene	75		30 - 124	12/12/24 07:25	12/16/24 09:53	1

Lab Sample ID: LCS 480-735068/2-A
Matrix: Solid
Analysis Batch: 735362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	16.7	14.2		ug/Kg		85	56 - 120
4,4'-DDE	16.7	10.9		ug/Kg		65	44 - 120
4,4'-DDT	16.7	12.0		ug/Kg		72	38 - 120
Aldrin	16.7	12.8		ug/Kg		77	38 - 120
alpha-BHC	16.7	11.8		ug/Kg		71	39 - 120
cis-Chlordane	16.7	13.0		ug/Kg		78	47 - 120
beta-BHC	16.7	13.7		ug/Kg		82	40 - 120
delta-BHC	16.7	13.5		ug/Kg		81	45 - 120
Dieldrin	16.7	14.0		ug/Kg		84	58 - 120
Endosulfan I	16.7	14.0		ug/Kg		84	49 - 120
Endosulfan II	16.7	14.6		ug/Kg		88	55 - 120
Endosulfan sulfate	16.7	14.1		ug/Kg		85	49 - 124
Endrin	16.7	14.0		ug/Kg		84	58 - 120
Endrin aldehyde	16.7	12.8		ug/Kg		77	37 - 121
Endrin ketone	16.7	14.4		ug/Kg		86	46 - 123
gamma-BHC (Lindane)	16.7	12.6		ug/Kg		76	50 - 120
trans-Chlordane	16.7	13.4		ug/Kg		80	48 - 120
Heptachlor	16.7	13.4		ug/Kg		81	50 - 120
Heptachlor epoxide	16.7	14.1		ug/Kg		85	50 - 120
Methoxychlor	16.7	13.5		ug/Kg		81	58 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	88		45 - 120
DCB Decachlorobiphenyl	84		45 - 120
Tetrachloro-m-xylene	72		30 - 124
Tetrachloro-m-xylene	72		30 - 124

Lab Sample ID: 480-226209-6 MS
Matrix: Solid
Analysis Batch: 735362

Client Sample ID: SO-12656942-KP-121024-023
Prep Type: Total/NA
Prep Batch: 735068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.36	U	18.5	15.4		ug/Kg	☼	83	37 - 126
4,4'-DDE	2.3		18.5	14.2		ug/Kg	☼	64	34 - 120
4,4'-DDT	0.44	U	18.5	12.5		ug/Kg	☼	67	43 - 123
Aldrin	0.46	U	18.5	14.1		ug/Kg	☼	76	37 - 125
alpha-BHC	0.34	U	18.5	12.7		ug/Kg	☼	69	39 - 120
cis-Chlordane	0.93	U	18.5	14.3		ug/Kg	☼	77	35 - 120
beta-BHC	0.34	U	18.5	16.0		ug/Kg	☼	86	36 - 120
delta-BHC	0.35	U	18.5	14.9		ug/Kg	☼	81	34 - 120

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

Lab Sample ID: 480-226209-6 MS — **Client Sample ID: SO-12656942-KP-121024-023**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735362 — **Prep Batch: 735068**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dieldrin	44	F1 F2	18.5	39.5	F1	ug/Kg	☼	-23	45 - 120
Endosulfan I	0.36	U	18.5	15.2		ug/Kg	☼	82	39 - 120
Endosulfan II	0.34	U	18.5	16.0		ug/Kg	☼	86	34 - 126
Endosulfan sulfate	0.35	U	18.5	15.9		ug/Kg	☼	86	27 - 130
Endrin	1.2	J	18.5	16.0		ug/Kg	☼	80	47 - 121
Endrin aldehyde	0.48	U	18.5	13.6		ug/Kg	☼	74	33 - 123
Endrin ketone	0.46	U	18.5	15.3		ug/Kg	☼	83	43 - 126
gamma-BHC (Lindane)	0.34	U	18.5	13.2		ug/Kg	☼	71	50 - 120
trans-Chlordane	0.59	U	18.5	14.7		ug/Kg	☼	80	31 - 120
Heptachlor	0.40	U	18.5	11.9		ug/Kg	☼	64	42 - 120
Heptachlor epoxide	0.48	U	18.5	15.7		ug/Kg	☼	85	40 - 120
Methoxychlor	0.38	U	18.5	13.6		ug/Kg	☼	73	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*45 - 120*
DCB Decachlorobiphenyl	*88*		*45 - 120*
Tetrachloro-m-xylene	*75*		*30 - 124*
Tetrachloro-m-xylene	*73*		*30 - 124*

Lab Sample ID: 480-226209-6 MSD — **Client Sample ID: SO-12656942-KP-121024-023**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735362 — **Prep Batch: 735068**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.36	U	18.7	15.0		ug/Kg	☼	80	37 - 126	3	21
4,4'-DDE	2.3		18.7	14.2		ug/Kg	☼	64	34 - 120	0	18
4,4'-DDT	0.44	U	18.7	11.0		ug/Kg	☼	59	43 - 123	12	25
Aldrin	0.46	U	18.7	13.5		ug/Kg	☼	72	37 - 125	4	12
alpha-BHC	0.34	U	18.7	12.4		ug/Kg	☼	66	39 - 120	3	15
cis-Chlordane	0.93	U	18.7	13.4		ug/Kg	☼	72	35 - 120	6	23
beta-BHC	0.34	U	18.7	15.4		ug/Kg	☼	83	36 - 120	4	19
delta-BHC	0.35	U	18.7	14.5		ug/Kg	☼	78	34 - 120	3	14
Dieldrin	44	F1 F2	18.7	46.0	F1 F2	ug/Kg	☼	12	45 - 120	15	12
Endosulfan I	0.36	U	18.7	14.5		ug/Kg	☼	78	39 - 120	4	18
Endosulfan II	0.34	U	18.7	15.6		ug/Kg	☼	84	34 - 126	2	26
Endosulfan sulfate	0.35	U	18.7	15.8		ug/Kg	☼	84	27 - 130	1	35
Endrin	1.2	J	18.7	15.7		ug/Kg	☼	77	47 - 121	2	20
Endrin aldehyde	0.48	U	18.7	12.8		ug/Kg	☼	69	33 - 123	6	47
Endrin ketone	0.46	U	18.7	15.1		ug/Kg	☼	81	43 - 126	2	37
gamma-BHC (Lindane)	0.34	U	18.7	12.7		ug/Kg	☼	68	50 - 120	3	12
trans-Chlordane	0.59	U	18.7	13.8		ug/Kg	☼	74	31 - 120	7	15
Heptachlor	0.40	U	18.7	12.3		ug/Kg	☼	66	42 - 120	3	22
Heptachlor epoxide	0.48	U	18.7	15.6		ug/Kg	☼	83	40 - 120	1	15
Methoxychlor	0.38	U	18.7	12.5		ug/Kg	☼	67	44 - 150	8	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*95*		*45 - 120*
DCB Decachlorobiphenyl	*90*		*45 - 120*

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

Lab Sample ID: 480-226209-6 MSD — **Client Sample ID: SO-12656942-KP-121024-023**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735362 — **Prep Batch: 735068**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	65		30 - 124
Tetrachloro-m-xylene	69		30 - 124

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

Lab Sample ID: MB 480-735069/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735119 — **Prep Batch: 735069**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1221	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1232	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1242	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1248	0.049	U	0.25	0.049	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1254	0.12	U	0.25	0.12	mg/Kg		12/12/24 07:32	12/12/24 14:58	1
PCB-1260	0.12	U	0.25	0.12	mg/Kg		12/12/24 07:32	12/12/24 14:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	115		60 - 154	12/12/24 07:32	12/12/24 14:58	1
Tetrachloro-m-xylene	111		60 - 154	12/12/24 07:32	12/12/24 14:58	1
DCB Decachlorobiphenyl	124		65 - 174	12/12/24 07:32	12/12/24 14:58	1
DCB Decachlorobiphenyl	127		65 - 174	12/12/24 07:32	12/12/24 14:58	1

Lab Sample ID: LCS 480-735069/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735119 — **Prep Batch: 735069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	2.50	3.20		mg/Kg		128	51 - 185
PCB-1260	2.50	3.62		mg/Kg		145	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	140		60 - 154
Tetrachloro-m-xylene	127		60 - 154
DCB Decachlorobiphenyl	141		65 - 174
DCB Decachlorobiphenyl	147		65 - 174

Lab Sample ID: 480-226209-10 MS — **Client Sample ID: SO-12656942-KP-121024-040**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735119 — **Prep Batch: 735069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.040	U	1.89	1.67		mg/Kg	☼	88	50 - 177
PCB-1260	0.096	U	1.89	1.90		mg/Kg	☼	101	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	119		60 - 154

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

Lab Sample ID: 480-226209-10 MS
Matrix: Solid
Analysis Batch: 735119

Client Sample ID: SO-12656942-KP-121024-040
Prep Type: Total/NA
Prep Batch: 735069

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*60 - 154*
DCB Decachlorobiphenyl	*128*		*65 - 174*
DCB Decachlorobiphenyl	*134*		*65 - 174*

Lab Sample ID: 480-226209-10 MSD
Matrix: Solid
Analysis Batch: 735119

Client Sample ID: SO-12656942-KP-121024-040
Prep Type: Total/NA
Prep Batch: 735069

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.040	U	2.46	2.37		mg/Kg	☼	96	50 - 177	35	50
PCB-1260	0.096	U	2.46	2.74		mg/Kg	☼	111	33 - 200	36	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*60 - 154*
Tetrachloro-m-xylene	*102*		*60 - 154*
DCB Decachlorobiphenyl	*114*		*65 - 174*
DCB Decachlorobiphenyl	*121*		*65 - 174*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-735338/1-A
Matrix: Solid
Analysis Batch: 735468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	6.0	U	17	6.0	ug/Kg		12/15/24 07:01	12/17/24 12:48	1
2,4-D	11	U	17	11	ug/Kg		12/15/24 07:01	12/17/24 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*	*12/15/24 07:01*	*12/17/24 12:48*	*1*
2,4-Dichlorophenylacetic acid	*71*		*28 - 129*	*12/15/24 07:01*	*12/17/24 12:48*	*1*

Lab Sample ID: LCS 480-735338/2-A
Matrix: Solid
Analysis Batch: 735468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP)	66.7	46.4		ug/Kg		70	39 - 125
2,4-D	66.7	47.4		ug/Kg		71	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*
2,4-Dichlorophenylacetic acid	*68*		*28 - 129*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 480-226209-6 MS — **Client Sample ID: SO-12656942-KP-121024-023**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735468 — **Prep Batch: 735338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP)	6.7	U	75.5	54.9		ug/Kg	☼	73	22 - 140
2,4-D	12	U	75.5	55.3		ug/Kg	☼	73	32 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*83*		*28 - 129*
2,4-Dichlorophenylacetic acid	*72*		*28 - 129*

Lab Sample ID: 480-226209-6 MSD — **Client Sample ID: SO-12656942-KP-121024-023**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735468 — **Prep Batch: 735338**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silvex (2,4,5-TP)	6.7	U	74.0	50.1		ug/Kg	☼	68	22 - 140	9	50
2,4-D	12	U	74.0	49.6		ug/Kg	☼	67	32 - 115	11	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*
2,4-Dichlorophenylacetic acid	*70*		*28 - 129*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-638852/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 638979 — **Prep Batch: 638852**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoropentanoic acid (PFPeA)	0.10	U	0.40	0.10	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorohexanoic acid (PFHxA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoroheptanoic acid (PFHpA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorooctanoic acid (PFOA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorononanoic acid (PFNA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorodecanoic acid (PFDA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoroundecanoic acid (PFUnA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorododecanoic acid (PFDoA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorotridecanoic acid (PFTrDA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorotetradecanoic acid (PFTeDA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoropentanesulfonic acid (PFPeS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoroheptanesulfonic acid (PFHpS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorononanesulfonic acid (PFNS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorododecanesulfonic acid (PFDoS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-638852/1-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorooctanesulfonamide (PFOSA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.50	U	2.0	0.50	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.50	U	2.0	0.50	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	0.40	0.10	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	0.40	0.10	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	0.80	0.20	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	0.40	0.10	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	1.0	0.25	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	5.0	1.3	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	5.0	1.3	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.20	0.050	ug/Kg		12/16/24 08:35	12/17/24 03:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	0.40	0.10	ug/Kg		12/16/24 08:35	12/17/24 03:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88.5*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C5 PFPeA	*104*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C5 PFHxA	*86.7*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C4 PFHpA	*91.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C8 PFOA	*95.4*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C9 PFNA	*102*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C6 PFDA	*87.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C7 PFUnA	*98.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C2 PFTeDA	*88.1*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C3 PFBS	*101*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*
13C3 PFHxS	*92.0*		*20 - 150*	*12/16/24 08:35*	*12/17/24 03:02*	*1*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-638852/1-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	80.5		20 - 150	12/16/24 08:35	12/17/24 03:02	1
13C8 PFOSA	73.5		20 - 150	12/16/24 08:35	12/17/24 03:02	1
d3-NMeFOSAA	89.1		20 - 150	12/16/24 08:35	12/17/24 03:02	1
d5-NEtFOSAA	141		20 - 150	12/16/24 08:35	12/17/24 03:02	1
M2-4:2 FTS	116		20 - 150	12/16/24 08:35	12/17/24 03:02	1
M2-6:2 FTS	108		20 - 150	12/16/24 08:35	12/17/24 03:02	1
M2-8:2 FTS	116		20 - 150	12/16/24 08:35	12/17/24 03:02	1
13C3 HFPO-DA	92.6		20 - 150	12/16/24 08:35	12/17/24 03:02	1
d7-N-MeFOSE-M	72.0		20 - 150	12/16/24 08:35	12/17/24 03:02	1
d9-N-EtFOSE-M	65.6		20 - 150	12/16/24 08:35	12/17/24 03:02	1
d5-NEtPFOSA	54.4		20 - 150	12/16/24 08:35	12/17/24 03:02	1
D3-NMeFOSA	59.2		20 - 150	12/16/24 08:35	12/17/24 03:02	1
13C2-PFDoDA	92.0		20 - 150	12/16/24 08:35	12/17/24 03:02	1

Lab Sample ID: LCS 240-638852/3-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	10.0	11.1		ug/Kg		111	40 - 150
Perfluoropentanoic acid (PFPeA)	5.00	5.42		ug/Kg		108	40 - 150
Perfluorohexanoic acid (PFHxA)	2.50	3.07		ug/Kg		123	40 - 150
Perfluoroheptanoic acid (PFHpA)	2.50	2.95		ug/Kg		118	40 - 150
Perfluorooctanoic acid (PFOA)	2.50	2.81		ug/Kg		112	40 - 150
Perfluorononanoic acid (PFNA)	2.50	2.66		ug/Kg		107	40 - 150
Perfluorodecanoic acid (PFDA)	2.50	2.81		ug/Kg		112	40 - 150
Perfluoroundecanoic acid (PFUnA)	2.50	2.74		ug/Kg		110	40 - 150
Perfluorododecanoic acid (PFDoA)	2.50	2.62		ug/Kg		105	40 - 150
Perfluorotridecanoic acid (PFTrDA)	2.50	2.64		ug/Kg		106	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.50	2.40		ug/Kg		96	40 - 150
Perfluorobutanesulfonic acid (PFBS)	2.21	2.53		ug/Kg		114	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.35	2.83		ug/Kg		120	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.28	2.22		ug/Kg		98	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.38	2.79		ug/Kg		117	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.32	3.00		ug/Kg		129	40 - 150
Perfluorononanesulfonic acid (PFNS)	2.40	2.91		ug/Kg		121	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.49		ug/Kg		103	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	9.34	10.4		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	9.48	10.2		ug/Kg		107	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-638852/3-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	9.58	10.3		ug/Kg		107	40 - 150
Perfluorooctanesulfonamide (PFOSA)	2.50	3.07		ug/Kg		123	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	2.50	2.78		ug/Kg		111	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	2.50	2.87		ug/Kg		115	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.50	3.16		ug/Kg		126	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.50	2.59		ug/Kg		104	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	25.0	27.9		ug/Kg		112	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	25.0	27.2		ug/Kg		109	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	10.0	11.5		ug/Kg		115	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.42	9.88		ug/Kg		105	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.00	5.19		ug/Kg		104	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.00	5.80		ug/Kg		116	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.32	10.3		ug/Kg		111	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.42	9.80		ug/Kg		104	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	4.45	5.49		ug/Kg		123	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	12.5	10.9		ug/Kg		87	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	62.5	70.4		ug/Kg		113	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	62.5	67.6		ug/Kg		108	40 - 150
Perfluorodecanesulfonic acid (PFDS)	2.41	3.20		ug/Kg		133	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.00	4.71		ug/Kg		94	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*85.3*		*20 - 150*
13C5 PFPeA	*102*		*20 - 150*
13C5 PFHxA	*85.0*		*20 - 150*
13C4 PFHpA	*92.1*		*20 - 150*
13C8 PFOA	*94.1*		*20 - 150*
13C9 PFNA	*97.3*		*20 - 150*
13C6 PFDA	*85.0*		*20 - 150*
13C7 PFUnA	*96.3*		*20 - 150*
13C2 PFTeDA	*81.9*		*20 - 150*
13C3 PFBS	*98.4*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-638852/3-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 PFHxS	*92.0*		*20 - 150*
13C8 PFOS	*79.2*		*20 - 150*
13C8 PFOSA	*70.8*		*20 - 150*
d3-NMeFOSAA	*81.6*		*20 - 150*
d5-NEtFOSAA	*143*		*20 - 150*
M2-4:2 FTS	*115*		*20 - 150*
M2-6:2 FTS	*112*		*20 - 150*
M2-8:2 FTS	*115*		*20 - 150*
13C3 HFPO-DA	*93.8*		*20 - 150*
d7-N-MeFOSE-M	*70.3*		*20 - 150*
d9-N-EtFOSE-M	*65.5*		*20 - 150*
d5-NEtPFOSA	*55.2*		*20 - 150*
D3-NMeFOSA	*60.4*		*20 - 150*
13C2-PFDoDA	*89.8*		*20 - 150*

Lab Sample ID: LLCS 240-638852/2-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.800	1.01		ug/Kg		126	40 - 150
Perfluoropentanoic acid (PFPeA)	0.400	0.451		ug/Kg		113	40 - 150
Perfluorohexanoic acid (PFHxA)	0.200	0.289		ug/Kg		144	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.200	0.228		ug/Kg		114	40 - 150
Perfluorooctanoic acid (PFOA)	0.200	0.259		ug/Kg		129	40 - 150
Perfluorononanoic acid (PFNA)	0.200	0.214		ug/Kg		107	40 - 150
Perfluorodecanoic acid (PFDA)	0.200	0.229		ug/Kg		115	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.200	0.231		ug/Kg		115	40 - 150
Perfluorododecanoic acid (PFDoA)	0.200	0.228		ug/Kg		114	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.200	0.224		ug/Kg		112	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.200	0.223		ug/Kg		111	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.177	0.200		ug/Kg		113	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.188	0.234		ug/Kg		125	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.209		ug/Kg		115	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.239		ug/Kg		125	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.186	0.269		ug/Kg		145	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.192	0.245		ug/Kg		128	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.194	0.216		ug/Kg		112	40 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.747	0.869		ug/Kg		116	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-638852/2-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.758	0.833		ug/Kg		110	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.766	0.957		ug/Kg		125	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.200	0.270		ug/Kg		135	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.200	0.242		ug/Kg		121	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.200	0.238		ug/Kg		119	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.252		ug/Kg		126	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.253		ug/Kg		127	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	2.00	2.30		ug/Kg		115	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	2.00	2.24		ug/Kg		112	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.800	1.04		ug/Kg		130	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.881		ug/Kg		117	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.400	0.447		ug/Kg		112	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.400	0.550		ug/Kg		137	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.746	0.911		ug/Kg		122	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.754	0.875		ug/Kg		116	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.356	0.508		ug/Kg		143	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	1.00	0.869	J	ug/Kg		87	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	5.00	5.80		ug/Kg		116	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	5.00	5.53		ug/Kg		111	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.193	0.235		ug/Kg		122	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.400	0.403		ug/Kg		101	40 - 150

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*86.7*		*20 - 150*
13C5 PFPeA	*102*		*20 - 150*
13C5 PFHxA	*81.6*		*20 - 150*
13C4 PFHpA	*93.1*		*20 - 150*
13C8 PFOA	*87.9*		*20 - 150*
13C9 PFNA	*96.3*		*20 - 150*
13C6 PFDA	*85.2*		*20 - 150*
13C7 PFUnA	*94.4*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-638852/2-A
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C2 PFTeDA	*83.3*		*20 - 150*
13C3 PFBS	*98.7*		*20 - 150*
13C3 PFHxS	*94.1*		*20 - 150*
13C8 PFOS	*82.1*		*20 - 150*
13C8 PFOSA	*71.4*		*20 - 150*
d3-NMeFOSAA	*91.8*		*20 - 150*
d5-NEtFOSAA	*152*	**5+*	*20 - 150*
M2-4:2 FTS	*118*		*20 - 150*
M2-6:2 FTS	*114*		*20 - 150*
M2-8:2 FTS	*113*		*20 - 150*
13C3 HFPO-DA	*91.5*		*20 - 150*
d7-N-MeFOSE-M	*73.7*		*20 - 150*
d9-N-EtFOSE-M	*68.0*		*20 - 150*
d5-NEtPFOSA	*57.8*		*20 - 150*
D3-NMeFOSA	*60.8*		*20 - 150*
13C2-PFDoDA	*83.1*		*20 - 150*

Lab Sample ID: 480-226209-3 MS
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-028
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	0.20	U	10.2	11.5		ug/Kg	☼	113	40 - 150
Perfluoropentanoic acid (PFPeA)	0.10	U	5.10	5.52		ug/Kg	☼	108	40 - 150
Perfluorohexanoic acid (PFHxA)	0.051	U	2.55	3.10		ug/Kg	☼	122	40 - 150
Perfluoroheptanoic acid (PFHpA)	0.051	U	2.55	2.94		ug/Kg	☼	115	40 - 150
Perfluorooctanoic acid (PFOA)	0.051	U	2.55	2.92		ug/Kg	☼	114	40 - 150
Perfluorononanoic acid (PFNA)	0.051	U	2.55	2.67		ug/Kg	☼	105	40 - 150
Perfluorodecanoic acid (PFDA)	0.051	U	2.55	2.78		ug/Kg	☼	109	40 - 150
Perfluoroundecanoic acid (PFUnA)	0.051	U	2.55	2.79		ug/Kg	☼	109	40 - 150
Perfluorododecanoic acid (PFDoA)	0.051	U	2.55	2.74		ug/Kg	☼	107	40 - 150
Perfluorotridecanoic acid (PFTrDA)	0.051	U	2.55	2.83		ug/Kg	☼	111	40 - 150
Perfluorotetradecanoic acid (PFTeDA)	0.051	U	2.55	2.40		ug/Kg	☼	94	40 - 150
Perfluorobutanesulfonic acid (PFBS)	0.051	U	2.26	2.56		ug/Kg	☼	114	40 - 150
Perfluoropentanesulfonic acid (PFPeS)	0.051	U	2.39	2.90		ug/Kg	☼	121	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.051	U	2.32	2.18		ug/Kg	☼	94	40 - 150
Perfluoroheptanesulfonic acid (PFHpS)	0.051	U	2.43	2.93		ug/Kg	☼	121	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.091	J	2.37	3.13		ug/Kg	☼	128	40 - 150
Perfluorononanesulfonic acid (PFNS)	0.051	U	2.45	2.98		ug/Kg	☼	122	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.051	U	2.47	2.56		ug/Kg	☼	104	40 - 150

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-3 MS **Client Sample ID: SO-12656942-KP-121024-028**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 638979 **Prep Batch: 638852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	9.53	10.6		ug/Kg	☼	111	40 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	9.67	10.3		ug/Kg	☼	106	40 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	9.78	10.6		ug/Kg	☼	108	40 - 150
Perfluorooctanesulfonamide (PFOSA)	0.051	U	2.55	3.18		ug/Kg	☼	125	40 - 150
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.051	U	2.55	2.94		ug/Kg	☼	115	40 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.051	U	2.55	2.85		ug/Kg	☼	112	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.051	U	2.55	2.79		ug/Kg	☼	109	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.051	U	2.55	2.74		ug/Kg	☼	107	40 - 150
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.51	U	25.5	27.5		ug/Kg	☼	108	40 - 150
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.51	U	25.5	28.2		ug/Kg	☼	111	40 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	10.2	11.9		ug/Kg	☼	116	40 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	9.61	10.6		ug/Kg	☼	111	40 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	5.10	5.22		ug/Kg	☼	102	40 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	5.10	5.80		ug/Kg	☼	114	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	9.51	10.9		ug/Kg	☼	115	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	9.61	10.1		ug/Kg	☼	105	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	4.54	5.56		ug/Kg	☼	122	40 - 150
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	12.8	10.5		ug/Kg	☼	82	40 - 150
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	63.8	71.1		ug/Kg	☼	111	40 - 150
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	63.8	67.5		ug/Kg	☼	106	40 - 150
Perfluorodecanesulfonic acid (PFDS)	0.051	U	2.46	3.23		ug/Kg	☼	132	40 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	5.10	4.76		ug/Kg	☼	93	40 - 150

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*87.0*		*20 - 150*
13C5 PFPeA	*99.5*		*20 - 150*
13C5 PFHxA	*82.8*		*20 - 150*
13C4 PFHpA	*92.0*		*20 - 150*
13C8 PFOA	*91.8*		*20 - 150*
13C9 PFNA	*98.6*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-3 MS
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-028
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C6 PFDA	*84.7*		*20 - 150*
13C7 PFUnA	*92.7*		*20 - 150*
13C2 PFTeDA	*84.4*		*20 - 150*
13C3 PFBS	*96.0*		*20 - 150*
13C3 PFHxS	*90.5*		*20 - 150*
13C8 PFOS	*79.9*		*20 - 150*
13C8 PFOSA	*63.9*		*20 - 150*
d3-NMeFOSAA	*87.4*		*20 - 150*
d5-NEtFOSAA	*111*		*20 - 150*
M2-4:2 FTS	*109*		*20 - 150*
M2-6:2 FTS	*111*		*20 - 150*
M2-8:2 FTS	*112*		*20 - 150*
13C3 HFPO-DA	*89.6*		*20 - 150*
d7-N-MeFOSE-M	*70.3*		*20 - 150*
d9-N-EtFOSE-M	*64.7*		*20 - 150*
d5-NEtPFOSA	*64.0*		*20 - 150*
D3-NMeFOSA	*61.2*		*20 - 150*
13C2-PFDoDA	*82.2*		*20 - 150*

Lab Sample ID: 480-226209-3 MSD
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-028
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.20	U	10.2	10.9		ug/Kg	☼	107	40 - 150	5	30
Perfluoropentanoic acid (PFPeA)	0.10	U	5.10	5.44		ug/Kg	☼	107	40 - 150	2	30
Perfluorohexanoic acid (PFHxA)	0.051	U	2.55	3.24		ug/Kg	☼	127	40 - 150	4	30
Perfluoroheptanoic acid (PFHpA)	0.051	U	2.55	2.76		ug/Kg	☼	108	40 - 150	6	30
Perfluorooctanoic acid (PFOA)	0.051	U	2.55	2.71		ug/Kg	☼	106	40 - 150	8	30
Perfluorononanoic acid (PFNA)	0.051	U	2.55	2.68		ug/Kg	☼	105	40 - 150	1	30
Perfluorodecanoic acid (PFDA)	0.051	U	2.55	2.87		ug/Kg	☼	113	40 - 150	3	30
Perfluoroundecanoic acid (PFUnA)	0.051	U	2.55	2.85		ug/Kg	☼	112	40 - 150	2	30
Perfluorododecanoic acid (PFDoA)	0.051	U	2.55	2.84		ug/Kg	☼	111	40 - 150	4	30
Perfluorotridecanoic acid (PFTrDA)	0.051	U	2.55	2.71		ug/Kg	☼	106	40 - 150	4	30
Perfluorotetradecanoic acid (PFTeDA)	0.051	U	2.55	2.54		ug/Kg	☼	99	40 - 150	6	30
Perfluorobutanesulfonic acid (PFBS)	0.051	U	2.26	2.42		ug/Kg	☼	107	40 - 150	6	30
Perfluoropentanesulfonic acid (PFPeS)	0.051	U	2.39	2.74		ug/Kg	☼	115	40 - 150	6	30
Perfluorohexanesulfonic acid (PFHxS)	0.051	U	2.32	2.21		ug/Kg	☼	95	40 - 150	1	30
Perfluoroheptanesulfonic acid (PFHpS)	0.051	U	2.43	2.79		ug/Kg	☼	115	40 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	0.091	J	2.37	3.08		ug/Kg	☼	126	40 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	0.051	U	2.45	2.91		ug/Kg	☼	119	40 - 150	3	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-3 MSD **Client Sample ID: SO-12656942-KP-121024-028**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 638979 **Prep Batch: 638852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	0.051	U	2.47	2.55		ug/Kg	☼	103	40 - 150	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.20	U	9.53	11.0		ug/Kg	☼	115	40 - 150	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.20	U	9.67	10.3		ug/Kg	☼	107	40 - 150	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.20	U	9.78	10.8		ug/Kg	☼	111	40 - 150	3	30
Perfluorooctanesulfonamide (PFOSA)	0.051	U	2.55	3.16		ug/Kg	☼	124	40 - 150	0	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.051	U	2.55	2.69		ug/Kg	☼	106	40 - 150	9	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.051	U	2.55	2.90		ug/Kg	☼	114	40 - 150	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.051	U	2.55	2.87		ug/Kg	☼	113	40 - 150	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.051	U	2.55	2.52		ug/Kg	☼	99	40 - 150	8	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.51	U	25.5	27.7		ug/Kg	☼	108	40 - 150	1	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.51	U	25.5	27.1		ug/Kg	☼	106	40 - 150	4	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.20	U	10.2	11.6		ug/Kg	☼	113	40 - 150	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.20	U	9.61	10.2		ug/Kg	☼	106	40 - 150	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.10	U	5.10	5.07		ug/Kg	☼	99	40 - 150	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.10	U	5.10	5.82		ug/Kg	☼	114	40 - 150	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	9.51	10.6		ug/Kg	☼	112	40 - 150	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	9.61	9.85		ug/Kg	☼	102	40 - 150	3	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.10	U	4.54	5.62		ug/Kg	☼	124	40 - 150	1	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.25	U	12.8	10.4		ug/Kg	☼	82	40 - 150	0	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.3	U	63.8	71.2		ug/Kg	☼	112	40 - 150	0	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.3	U	63.8	66.8		ug/Kg	☼	105	40 - 150	1	30
Perfluorodecanesulfonic acid (PFDS)	0.051	U	2.46	3.11		ug/Kg	☼	127	40 - 150	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.10	U	5.10	4.68		ug/Kg	☼	92	40 - 150	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*88.7*		*20 - 150*
13C5 PFPeA	*103*		*20 - 150*
13C5 PFHxA	*83.8*		*20 - 150*
13C4 PFHpA	*98.4*		*20 - 150*
13C8 PFOA	*90.1*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-3 MSD
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-028
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C9 PFNA	*100*		*20 - 150*
13C6 PFDA	*86.3*		*20 - 150*
13C7 PFUnA	*96.5*		*20 - 150*
13C2 PFTeDA	*87.8*		*20 - 150*
13C3 PFBS	*103*		*20 - 150*
13C3 PFHxS	*92.9*		*20 - 150*
13C8 PFOS	*83.6*		*20 - 150*
13C8 PFOSA	*62.1*		*20 - 150*
d3-NMeFOSAA	*88.7*		*20 - 150*
d5-NEtFOSAA	*159*	**5+*	*20 - 150*
M2-4:2 FTS	*110*		*20 - 150*
M2-6:2 FTS	*105*		*20 - 150*
M2-8:2 FTS	*110*		*20 - 150*
13C3 HFPO-DA	*94.3*		*20 - 150*
d7-N-MeFOSE-M	*74.7*		*20 - 150*
d9-N-EtFOSE-M	*70.4*		*20 - 150*
d5-NEtPFOSA	*66.5*		*20 - 150*
D3-NMeFOSA	*69.4*		*20 - 150*
13C2-PFDoDA	*86.8*		*20 - 150*

Lab Sample ID: 480-226209-11 DU
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-024
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.19	U		0.20	U	ug/Kg	☼			NC	30
Perfluoropentanoic acid (PFPeA)	0.096	U		0.098	U	ug/Kg	☼			NC	30
Perfluorohexanoic acid (PFHxA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluoroheptanoic acid (PFHpA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorooctanoic acid (PFOA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorononanoic acid (PFNA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorodecanoic acid (PFDA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluoroundecanoic acid (PFUnA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorododecanoic acid (PFDoA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorotridecanoic acid (PFTrDA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorotetradecanoic acid (PFTeDA)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorobutanesulfonic acid (PFBS)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluoropentanesulfonic acid (PFPeS)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluoroheptanesulfonic acid (PFHpS)	0.048	U		0.049	U	ug/Kg	☼			NC	30
Perfluorooctanesulfonic acid (PFOS)	0.048	U		0.049	U	ug/Kg	☼			NC	30

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-11 DU
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-024
Prep Type: Total/NA
Prep Batch: 638852

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorononanesulfonic acid (PFNS)	0.048	U	0.049	U	ug/Kg	☼	NC	30
Perfluorododecanesulfonic acid (PFDoS)	0.048	U	0.049	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	0.19	U	0.20	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.19	U	0.20	U	ug/Kg	☼	NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.19	U	0.20	U	ug/Kg	☼	NC	30
Perfluorooctanesulfonamide (PFOSA)	0.048	U	0.049	U	ug/Kg	☼	NC	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.048	U	0.049	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.048	U	0.049	U	ug/Kg	☼	NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.048	U	0.049	U	ug/Kg	☼	NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.048	U	0.049	U	ug/Kg	☼	NC	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	0.48	U	0.49	U	ug/Kg	☼	NC	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	0.48	U	0.49	U	ug/Kg	☼	NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	0.19	U	0.20	U	ug/Kg	☼	NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.19	U	0.20	U	ug/Kg	☼	NC	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.096	U	0.098	U	ug/Kg	☼	NC	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.096	U	0.098	U	ug/Kg	☼	NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.19	U	0.20	U	ug/Kg	☼	NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.19	U	0.20	U	ug/Kg	☼	NC	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	0.096	U	0.098	U	ug/Kg	☼	NC	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	0.24	U	0.25	U	ug/Kg	☼	NC	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.2	U	1.2	U	ug/Kg	☼	NC	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	1.2	U	1.2	U	ug/Kg	☼	NC	30
Perfluorodecanesulfonic acid (PFDS)	0.048	U	0.049	U	ug/Kg	☼	NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.096	U	0.098	U	ug/Kg	☼	NC	30

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFBA	*88.5*		*20 - 150*
13C5 PFPeA	*95.7*		*20 - 150*
13C5 PFHxA	*84.4*		*20 - 150*

Method: Draft-3 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-226209-11 DU
Matrix: Solid
Analysis Batch: 638979

Client Sample ID: SO-12656942-KP-121024-024
Prep Type: Total/NA
Prep Batch: 638852

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
13C4 PFHpA	*90.4*		*20 - 150*
13C8 PFOA	*92.4*		*20 - 150*
13C9 PFNA	*96.0*		*20 - 150*
13C6 PFDA	*89.4*		*20 - 150*
13C7 PFUnA	*90.1*		*20 - 150*
13C2 PFTeDA	*94.0*		*20 - 150*
13C3 PFBS	*101*		*20 - 150*
13C3 PFHxS	*93.2*		*20 - 150*
13C8 PFOS	*81.5*		*20 - 150*
13C8 PFOSA	*68.8*		*20 - 150*
d3-NMeFOSAA	*82.9*		*20 - 150*
d5-NEtFOSAA	*102*		*20 - 150*
M2-4:2 FTS	*111*		*20 - 150*
M2-6:2 FTS	*107*		*20 - 150*
M2-8:2 FTS	*109*		*20 - 150*
13C3 HFPO-DA	*88.2*		*20 - 150*
d7-N-MeFOSE-M	*69.1*		*20 - 150*
d9-N-EtFOSE-M	*64.0*		*20 - 150*
d5-NEtPFOSA	*71.5*		*20 - 150*
D3-NMeFOSA	*71.5*		*20 - 150*
13C2-PFDoDA	*83.3*		*20 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-735104/1-A
Matrix: Solid
Analysis Batch: 735294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8.2	U	9.5	8.2	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Antimony	0.545	J	14	0.51	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Arsenic	0.84	U	1.9	0.84	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Barium	0.13	U	0.48	0.13	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Beryllium	0.038	U	0.19	0.038	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Cadmium	0.067	U	0.19	0.067	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Calcium	26	U	48	26	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Cobalt	0.095	U	0.48	0.095	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Copper	0.54	U	0.95	0.54	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Iron	8.1	U	9.5	8.1	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Lead	0.44	U	0.95	0.44	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Magnesium	8.1	U	19	8.1	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Manganese	0.27	U	0.95	0.27	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Nickel	0.24	U	4.8	0.24	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Potassium	23	U	29	23	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Selenium	0.76	U	3.8	0.76	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Silver	0.19	U ^5-	0.57	0.19	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Sodium	59	U	130	59	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Thallium	0.73	U	5.7	0.73	mg/Kg		12/12/24 14:04	12/13/24 14:01	1
Vanadium	0.12	U	0.48	0.12	mg/Kg		12/12/24 14:04	12/13/24 14:01	1

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

Lab Sample ID: MB 480-735104/1-A
Matrix: Solid
Analysis Batch: 735294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	1.21	J ^5-	1.9	0.97	mg/Kg		12/12/24 14:04	12/13/24 14:01	1

Lab Sample ID: MB 480-735104/1-A
Matrix: Solid
Analysis Batch: 735356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 735104

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.84		0.48	0.34	mg/Kg		12/12/24 14:04	12/13/24 19:30	1

Lab Sample ID: LCSSRM 480-735104/2-A
Matrix: Solid
Analysis Batch: 735294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735104

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	7680	7350		mg/Kg		95.7	35.5 - 119.1
Antimony	244	102		mg/Kg		42.0	10.0 - 125.0
Arsenic	283	219		mg/Kg		77.4	60.1 - 111.3
Barium	326	277		mg/Kg		84.8	67.8 - 113.2
Beryllium	175	155		mg/Kg		88.6	68.6 - 114.3
Cadmium	95.8	82.3		mg/Kg		86.0	66.0 - 109.6
Calcium	5470	4890		mg/Kg		89.4	70.4 - 122.1
Chromium	239	212		mg/Kg		88.5	62.3 - 115.9
Cobalt	150	141		mg/Kg		93.7	68.7 - 114.7
Copper	217	182		mg/Kg		83.7	67.3 - 112.4
Iron	7360	6680		mg/Kg		90.7	10.0 - 182.1
Lead	210	194		mg/Kg		92.3	67.6 - 117.1
Magnesium	2080	1850		mg/Kg		89.0	51.4 - 126.9
Manganese	290	242		mg/Kg		83.5	66.9 - 114.8
Nickel	329	314		mg/Kg		95.5	63.5 - 117.6
Potassium	2330	2110		mg/Kg		90.5	50.6 - 121.5
Selenium	281	232		mg/Kg		82.7	67.3 - 126.3
Silver	82.7	72.4		mg/Kg		87.6	65.8 - 119.8
Sodium	427	384		mg/Kg		89.9	54.8 - 135.4
Thallium	123	116		mg/Kg		94.2	59.6 - 116.3

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

Lab Sample ID: LCSSRM 480-735104/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735104**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	192	167		mg/Kg		86.8	64.6 - 112.0
Zinc	260	233		mg/Kg		89.6	63.5 - 118.1

Lab Sample ID: 480-226209-5 MS — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	15000	F2	1260	19700	4	mg/Kg	☼	398	75 - 125
Antimony	0.62	U F1	123	59.5	F1	mg/Kg	☼	48	75 - 125
Arsenic	6.0		247	218		mg/Kg	☼	86	75 - 125
Barium	97		246	331		mg/Kg	☼	95	75 - 125
Beryllium	0.73		122	112		mg/Kg	☼	91	75 - 125
Cadmium	0.62		123	110		mg/Kg	☼	89	75 - 125
Calcium	45000		6130	57300	4	mg/Kg	☼	201	75 - 125
Chromium	18		123	128		mg/Kg	☼	90	75 - 125
Cobalt	8.6		123	123		mg/Kg	☼	93	75 - 125
Copper	34		123	143		mg/Kg	☼	89	75 - 125
Iron	19000	F2	1260	20400	4	mg/Kg	☼	82	75 - 125
Lead	73	F1 F2	123	258	F1	mg/Kg	☼	150	75 - 125
Magnesium	17000	F1	6140	25300	F1	mg/Kg	☼	140	75 - 125
Manganese	440	F1	122	501	F1	mg/Kg	☼	51	75 - 125
Nickel	20		123	139		mg/Kg	☼	97	75 - 125
Potassium	4000		6130	11500		mg/Kg	☼	122	75 - 125
Selenium	0.93	U	246	194		mg/Kg	☼	79	75 - 125
Silver	0.33	J ^5-	12.3	11.9	^5-	mg/Kg	☼	94	75 - 125
Sodium	1600		6140	6920		mg/Kg	☼	87	75 - 125
Thallium	0.88	U	246	236		mg/Kg	☼	96	75 - 125
Vanadium	28		123	143		mg/Kg	☼	93	75 - 125
Zinc	150	^5- F1 F2	123	327	^5- F1	mg/Kg	☼	146	75 - 125

Lab Sample ID: 480-226209-5 MSD — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	15000	F2	1180	15800	4 F2	mg/Kg	☼	90	75 - 125	22	20
Antimony	0.62	U F1	115	62.8	F1	mg/Kg	☼	55	75 - 125	5	20
Arsenic	6.0		232	208		mg/Kg	☼	87	75 - 125	5	20
Barium	97		230	311		mg/Kg	☼	93	75 - 125	6	20
Beryllium	0.73		114	107		mg/Kg	☼	93	75 - 125	4	20
Cadmium	0.62		115	106		mg/Kg	☼	91	75 - 125	4	20
Calcium	45000		5750	59600	4	mg/Kg	☼	253	75 - 125	4	20
Chromium	18		115	120		mg/Kg	☼	88	75 - 125	7	20
Cobalt	8.6		115	114		mg/Kg	☼	92	75 - 125	7	20
Copper	34		115	140		mg/Kg	☼	92	75 - 125	2	20
Iron	19000	F2	1180	15700	4 F2	mg/Kg	☼	-308	75 - 125	26	20
Lead	73	F1 F2	115	197	F2	mg/Kg	☼	107	75 - 125	27	20

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

Lab Sample ID: 480-226209-5 MSD — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735104**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	17000	F1	5760	28000	F1	mg/Kg	☼	197	75 - 125	10	20
Manganese	440	F1	115	455	F1	mg/Kg	☼	14	75 - 125	10	20
Nickel	20		115	128		mg/Kg	☼	94	75 - 125	8	20
Potassium	4000		5750	9730		mg/Kg	☼	100	75 - 125	16	20
Selenium	0.93	U	230	185		mg/Kg	☼	80	75 - 125	5	20
Silver	0.33	J ^5-	11.5	11.3	^5-	mg/Kg	☼	95	75 - 125	5	20
Sodium	1600		5760	6610		mg/Kg	☼	87	75 - 125	5	20
Thallium	0.88	U	230	222		mg/Kg	☼	96	75 - 125	6	20
Vanadium	28		116	130		mg/Kg	☼	88	75 - 125	9	20
Zinc	150	^5- F1 F2	115	237	^5- F2	mg/Kg	☼	77	75 - 125	32	20

Lab Sample ID: MB 480-735160/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735160**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.060	U	0.20	0.060	mg/L		12/13/24 08:39	12/13/24 15:24	1
Antimony	0.0068	U	0.020	0.0068	mg/L		12/13/24 08:39	12/13/24 15:24	1
Arsenic	0.0056	U	0.015	0.0056	mg/L		12/13/24 08:39	12/13/24 15:24	1
Barium	0.00070	U	0.0020	0.00070	mg/L		12/13/24 08:39	12/13/24 15:24	1
Beryllium	0.00030	U	0.0020	0.00030	mg/L		12/13/24 08:39	12/13/24 15:24	1
Cadmium	0.00050	U	0.0020	0.00050	mg/L		12/13/24 08:39	12/13/24 15:24	1
Calcium	0.10	U	0.50	0.10	mg/L		12/13/24 08:39	12/13/24 15:24	1
Chromium	0.0010	U	0.0040	0.0010	mg/L		12/13/24 08:39	12/13/24 15:24	1
Cobalt	0.00063	U	0.0040	0.00063	mg/L		12/13/24 08:39	12/13/24 15:24	1
Copper	0.0016	U	0.010	0.0016	mg/L		12/13/24 08:39	12/13/24 15:24	1
Iron	0.019	U	0.050	0.019	mg/L		12/13/24 08:39	12/13/24 15:24	1
Lead	0.0030	U	0.010	0.0030	mg/L		12/13/24 08:39	12/13/24 15:24	1
Magnesium	0.043	U	0.20	0.043	mg/L		12/13/24 08:39	12/13/24 15:24	1
Manganese	0.00040	U	0.0030	0.00040	mg/L		12/13/24 08:39	12/13/24 15:24	1
Nickel	0.0013	U	0.010	0.0013	mg/L		12/13/24 08:39	12/13/24 15:24	1
Potassium	0.136	J	0.50	0.10	mg/L		12/13/24 08:39	12/13/24 15:24	1
Selenium	0.0087	U	0.025	0.0087	mg/L		12/13/24 08:39	12/13/24 15:24	1
Silver	0.0017	U ^5-	0.0060	0.0017	mg/L		12/13/24 08:39	12/13/24 15:24	1
Sodium	0.32	U	1.0	0.32	mg/L		12/13/24 08:39	12/13/24 15:24	1
Thallium	0.010	U	0.020	0.010	mg/L		12/13/24 08:39	12/13/24 15:24	1
Vanadium	0.0015	U	0.0050	0.0015	mg/L		12/13/24 08:39	12/13/24 15:24	1
Zinc	0.0015	U ^5-	0.010	0.0015	mg/L		12/13/24 08:39	12/13/24 15:24	1

Lab Sample ID: LCS 480-735160/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735160**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.11	5.02		mg/L		98	80 - 120
Antimony	0.500	0.486		mg/L		97	80 - 120
Arsenic	1.01	0.963		mg/L		96	80 - 120
Barium	1.00	0.992		mg/L		99	80 - 120
Beryllium	0.496	0.521		mg/L		105	80 - 120

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

Lab Sample ID: LCS 480-735160/2-A
Matrix: Water
Analysis Batch: 735294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 735160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.500	0.483		mg/L		97	80 - 120
Calcium	25.0	24.9		mg/L		100	80 - 120
Chromium	0.499	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.470		mg/L		94	80 - 120
Copper	0.500	0.457		mg/L		91	80 - 120
Iron	5.12	5.42		mg/L		106	80 - 120
Lead	0.500	0.489		mg/L		98	80 - 120
Magnesium	25.0	24.1		mg/L		96	80 - 120
Manganese	0.498	0.490		mg/L		98	80 - 120
Nickel	0.501	0.490		mg/L		98	80 - 120
Potassium	25.0	25.2		mg/L		101	80 - 120
Selenium	1.00	0.931		mg/L		93	80 - 120
Silver	0.0500	0.0514	^5-	mg/L		103	80 - 120
Sodium	25.0	24.8		mg/L		99	80 - 120
Thallium	1.00	0.943		mg/L		94	80 - 120
Vanadium	0.502	0.506		mg/L		101	80 - 120
Zinc	0.500	0.505	^5-	mg/L		101	80 - 120

Lab Sample ID: 480-226209-12 MS
Matrix: Water
Analysis Batch: 735294

Client Sample ID: GW-12656942-KP-121024-001
Prep Type: Total/NA
Prep Batch: 735160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.51		5.11	5.73		mg/L		102	75 - 125
Antimony	0.0068	U	0.500	0.503		mg/L		101	75 - 125
Arsenic	0.0056	U	1.01	0.980		mg/L		98	75 - 125
Barium	0.074		1.00	1.06		mg/L		99	75 - 125
Beryllium	0.00030	U	0.496	0.513		mg/L		103	75 - 125
Cadmium	0.00050	U	0.500	0.491		mg/L		98	75 - 125
Calcium	150		25.0	179	4	mg/L		98	75 - 125
Chromium	0.0011	J	0.499	0.495		mg/L		99	75 - 125
Cobalt	0.0029	J	0.500	0.474		mg/L		94	75 - 125
Copper	0.0016	U	0.500	0.510		mg/L		102	75 - 125
Iron	0.35		5.12	5.82		mg/L		107	75 - 125
Lead	0.0030	U	0.500	0.490		mg/L		98	75 - 125
Magnesium	51		25.0	75.8		mg/L		101	75 - 125
Manganese	0.26		0.498	0.742		mg/L		98	75 - 125
Nickel	0.0031	J	0.501	0.488		mg/L		97	75 - 125
Potassium	7.1	B	25.0	33.1		mg/L		104	75 - 125
Selenium	0.0087	U	1.00	0.971		mg/L		97	75 - 125
Silver	0.0017	U ^5-	0.0500	0.0536	^5-	mg/L		107	75 - 125
Sodium	180		25.0	213	4	mg/L		116	75 - 125
Thallium	0.010	U	1.00	0.976		mg/L		98	75 - 125
Vanadium	0.0015	U	0.502	0.506		mg/L		101	75 - 125
Zinc	0.0015	U ^5-	0.500	0.474	^5-	mg/L		95	75 - 125

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

Lab Sample ID: 480-226209-12 MSD — **Client Sample ID: GW-12656942-KP-121024-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735294 — **Prep Batch: 735160**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	0.51		5.11	5.77		mg/L		103	75 - 125	1	20
Antimony	0.0068	U	0.500	0.511		mg/L		102	75 - 125	2	20
Arsenic	0.0056	U	1.01	0.984		mg/L		98	75 - 125	0	20
Barium	0.074		1.00	1.08		mg/L		100	75 - 125	1	20
Beryllium	0.00030	U	0.496	0.517		mg/L		104	75 - 125	1	20
Cadmium	0.00050	U	0.500	0.495		mg/L		99	75 - 125	1	20
Calcium	150		25.0	181	4	mg/L		106	75 - 125	1	20
Chromium	0.0011	J	0.499	0.496		mg/L		99	75 - 125	0	20
Cobalt	0.0029	J	0.500	0.478		mg/L		95	75 - 125	1	20
Copper	0.0016	U	0.500	0.513		mg/L		103	75 - 125	1	20
Iron	0.35		5.12	5.84		mg/L		107	75 - 125	0	20
Lead	0.0030	U	0.500	0.496		mg/L		99	75 - 125	1	20
Magnesium	51		25.0	76.4		mg/L		103	75 - 125	1	20
Manganese	0.26		0.498	0.747		mg/L		99	75 - 125	1	20
Nickel	0.0031	J	0.501	0.489		mg/L		97	75 - 125	0	20
Potassium	7.1	B	25.0	33.3		mg/L		105	75 - 125	0	20
Selenium	0.0087	U	1.00	0.973		mg/L		97	75 - 125	0	20
Silver	0.0017	U ^5-	0.0500	0.0539	^5-	mg/L		108	75 - 125	1	20
Sodium	180		25.0	216	4	mg/L		128	75 - 125	1	20
Thallium	0.010	U	1.00	0.980		mg/L		98	75 - 125	0	20
Vanadium	0.0015	U	0.502	0.507		mg/L		101	75 - 125	0	20
Zinc	0.0015	U ^5-	0.500	0.479	^5-	mg/L		96	75 - 125	1	20

Lab Sample ID: MB 480-735103/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735354 — **Prep Batch: 735111**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.060	U	0.20	0.060	mg/L		12/13/24 08:34	12/13/24 16:21	1
Antimony	0.0068	U	0.020	0.0068	mg/L		12/13/24 08:34	12/13/24 16:21	1
Arsenic	0.0056	U	0.015	0.0056	mg/L		12/13/24 08:34	12/13/24 16:21	1
Barium	0.00070	U	0.0020	0.00070	mg/L		12/13/24 08:34	12/13/24 16:21	1
Beryllium	0.00030	U	0.0020	0.00030	mg/L		12/13/24 08:34	12/13/24 16:21	1
Cadmium	0.00050	U	0.0020	0.00050	mg/L		12/13/24 08:34	12/13/24 16:21	1
Calcium	0.10	U	0.50	0.10	mg/L		12/13/24 08:34	12/13/24 16:21	1
Chromium	0.0010	U	0.0040	0.0010	mg/L		12/13/24 08:34	12/13/24 16:21	1
Cobalt	0.00063	U	0.0040	0.00063	mg/L		12/13/24 08:34	12/13/24 16:21	1
Copper	0.00285	J ^5+	0.010	0.0016	mg/L		12/13/24 08:34	12/13/24 16:21	1
Iron	0.019	U ^5-	0.050	0.019	mg/L		12/13/24 08:34	12/13/24 16:21	1
Lead	0.0030	U	0.010	0.0030	mg/L		12/13/24 08:34	12/13/24 16:21	1
Magnesium	0.043	U	0.20	0.043	mg/L		12/13/24 08:34	12/13/24 16:21	1
Manganese	0.000789	J	0.0030	0.00040	mg/L		12/13/24 08:34	12/13/24 16:21	1
Nickel	0.0013	U	0.010	0.0013	mg/L		12/13/24 08:34	12/13/24 16:21	1
Potassium	0.10	U	0.50	0.10	mg/L		12/13/24 08:34	12/13/24 16:21	1
Selenium	0.0087	U	0.025	0.0087	mg/L		12/13/24 08:34	12/13/24 16:21	1
Silver	0.0017	U ^5-	0.0060	0.0017	mg/L		12/13/24 08:34	12/13/24 16:21	1
Sodium	0.32	U	1.0	0.32	mg/L		12/13/24 08:34	12/13/24 16:21	1
Thallium	0.010	U	0.020	0.010	mg/L		12/13/24 08:34	12/13/24 16:21	1
Vanadium	0.0015	U	0.0050	0.0015	mg/L		12/13/24 08:34	12/13/24 16:21	1

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

Lab Sample ID: MB 480-735103/1-B
Matrix: Water
Analysis Batch: 735354

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 735111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.00539	J ^5-	0.010	0.0015	mg/L		12/13/24 08:34	12/13/24 16:21	1

Lab Sample ID: LCS 480-735103/2-B
Matrix: Water
Analysis Batch: 735354

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 735111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.11	4.92		mg/L		96	80 - 120
Antimony	0.500	0.479		mg/L		96	80 - 120
Arsenic	1.01	0.943		mg/L		94	80 - 120
Barium	1.00	0.977		mg/L		98	80 - 120
Beryllium	0.496	0.507		mg/L		102	80 - 120
Cadmium	0.500	0.475		mg/L		95	80 - 120
Calcium	25.0	24.4		mg/L		98	80 - 120
Chromium	0.499	0.498		mg/L		100	80 - 120
Cobalt	0.500	0.464		mg/L		93	80 - 120
Copper	0.500	0.454	^5+	mg/L		91	80 - 120
Iron	5.12	5.30	^5-	mg/L		104	80 - 120
Lead	0.500	0.477		mg/L		95	80 - 120
Magnesium	25.0	23.6		mg/L		94	80 - 120
Manganese	0.498	0.483		mg/L		97	80 - 120
Nickel	0.501	0.481		mg/L		96	80 - 120
Potassium	25.0	24.6		mg/L		99	80 - 120
Selenium	1.00	0.911		mg/L		91	80 - 120
Silver	0.0500	0.0509	^5-	mg/L		102	80 - 120
Sodium	25.0	24.3		mg/L		97	80 - 120
Thallium	1.00	0.914		mg/L		91	80 - 120
Vanadium	0.502	0.499		mg/L		99	80 - 120
Zinc	0.500	0.506	^5-	mg/L		101	80 - 120

Lab Sample ID: LCSD 480-735103/3-B
Matrix: Water
Analysis Batch: 735354

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 735111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5.11	4.79		mg/L		94	80 - 120	3	20
Antimony	0.500	0.463		mg/L		93	80 - 120	3	20
Arsenic	1.01	0.912		mg/L		91	80 - 120	3	20
Barium	1.00	0.944		mg/L		94	80 - 120	3	20
Beryllium	0.496	0.494		mg/L		100	80 - 120	2	20
Cadmium	0.500	0.459		mg/L		92	80 - 120	3	20
Calcium	25.0	23.9		mg/L		96	80 - 120	2	20
Chromium	0.499	0.484		mg/L		97	80 - 120	3	20
Cobalt	0.500	0.449		mg/L		90	80 - 120	3	20
Copper	0.500	0.447	^5+	mg/L		89	80 - 120	1	20
Iron	5.12	5.15	^5-	mg/L		100	80 - 120	3	20
Lead	0.500	0.461		mg/L		92	80 - 120	3	20
Magnesium	25.0	23.1		mg/L		92	80 - 120	2	20
Manganese	0.498	0.468		mg/L		94	80 - 120	3	20

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

Lab Sample ID: LCSD 480-735103/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735354 — **Prep Batch: 735111**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	0.501	0.468		mg/L		93	80 - 120	3	20
Potassium	25.0	24.0		mg/L		96	80 - 120	3	20
Selenium	1.00	0.882		mg/L		88	80 - 120	3	20
Silver	0.0500	0.0493	^5-	mg/L		99	80 - 120	3	20
Sodium	25.0	23.1		mg/L		93	80 - 120	3	20
Thallium	1.00	0.888		mg/L		89	80 - 120	3	20
Vanadium	0.502	0.483		mg/L		96	80 - 120	3	20
Zinc	0.500	0.493	^5-	mg/L		99	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-735350/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735424 — **Prep Batch: 735350**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	U	0.00020	0.000042	mg/L		12/16/24 09:36	12/16/24 12:41	1

Lab Sample ID: LCS 480-735350/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735424 — **Prep Batch: 735350**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00664		mg/L		99	80 - 120

Lab Sample ID: MB 480-735103/1-C — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735424 — **Prep Batch: 735349**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000042	U	0.00020	0.000042	mg/L		12/16/24 09:36	12/16/24 12:32	1

Lab Sample ID: LCS 480-735103/2-C — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735424 — **Prep Batch: 735349**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00662		mg/L		99	80 - 120

Lab Sample ID: LCSD 480-735103/3-C — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735424 — **Prep Batch: 735349**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00669	0.00665		mg/L		99	80 - 120	1	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-226209-12 MS — **Client Sample ID: GW-12656942-KP-121024-001**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735424 — **Prep Batch: 735349**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000042	U	0.00669	0.00638		mg/L		95	80 - 120

Lab Sample ID: 480-226209-12 MSD — **Client Sample ID: GW-12656942-KP-121024-001**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 735424 — **Prep Batch: 735349**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000042	U	0.00669	0.00644		mg/L		96	80 - 120	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-735169/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735169**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0045	U	0.019	0.0045	mg/Kg		12/13/24 09:11	12/13/24 12:29	1

Lab Sample ID: LCSSRM 480-735169/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735169**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	24.9	21.3		mg/Kg		85.6	55.0 - 128.1

Lab Sample ID: 480-226209-5 MS — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735169**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.082	F1 F2	0.412	0.612	F1	mg/Kg	☼	129	80 - 120

Lab Sample ID: 480-226209-5 MSD — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735260 — **Prep Batch: 735169**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.082	F1 F2	0.398	0.466	F2	mg/Kg	☼	96	80 - 120	27	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 480-735607/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.47	U	0.97	0.47	mg/Kg		12/17/24 11:55	12/18/24 11:30	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 480-735607/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.391		mg/Kg		98	29 - 122

Lab Sample ID: LCS 480-735607/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/Kg		101	29 - 122

Lab Sample ID: LCSSRM 480-735607/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	150	90.9		mg/Kg		60.6	38.9 - 138.7

Lab Sample ID: 480-226209-5 MS — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.56	U F1	1.40	0.56	U F1	mg/Kg	☼	0	85 - 115

Lab Sample ID: 480-226209-5 MSD — **Client Sample ID: SO-12656942-KP-121024-010**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 735629 — **Prep Batch: 735607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.56	U F1	1.40	0.756	J F1	mg/Kg	☼	54	85 - 115	NC	15

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-735112/21 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0041	U	0.010	0.0041	mg/L			12/12/24 07:21	1

Lab Sample ID: HLCS 480-735112/22 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 735112

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.396		mg/L		99	90 - 110

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 480-735112/23
Matrix: Water
Analysis Batch: 735112

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.250		mg/L		100	90 - 110		

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

GC/MS VOA

Prep Batch: 735053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-4	SO-12656942-KP-121024-009	Total/NA	Solid	5035A_L	
480-226209-7	SO-12656942-KP-121024-011	Total/NA	Solid	5035A_L	
480-226209-9	SO-12656942-KP-121024-025	Total/NA	Solid	5035A_L	
MB 480-735053/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-735053/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 735054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-4	SO-12656942-KP-121024-009	Total/NA	Solid	8260C	735053
480-226209-7	SO-12656942-KP-121024-011	Total/NA	Solid	8260C	735053
480-226209-9	SO-12656942-KP-121024-025	Total/NA	Solid	8260C	735053
MB 480-735053/2-A	Method Blank	Total/NA	Solid	8260C	735053
LCS 480-735053/1-A	Lab Control Sample	Total/NA	Solid	8260C	735053

Analysis Batch: 735106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	8260C	
480-226209-13	GW-12656942-KP-121024-002	Total/NA	Water	8260C	
480-226209-15	GW-12656942-KP-121024-003	Total/NA	Water	8260C	
480-226209-16	Trip blank	Total/NA	Water	8260C	
MB 480-735106/8	Method Blank	Total/NA	Water	8260C	
LCS 480-735106/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 735067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-14	GW-12656942-KP-121024-011	Total/NA	Water	3510C	
MB 480-735067/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-735067/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-735067/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 735139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	3510C	
MB 480-735139/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-735139/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-735139/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 735218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	8270D	735139
MB 480-735139/1-A	Method Blank	Total/NA	Water	8270D	735139
LCS 480-735139/2-A	Lab Control Sample	Total/NA	Water	8270D	735139
LCSD 480-735139/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	735139

Analysis Batch: 735225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-14	GW-12656942-KP-121024-011	Total/NA	Water	8270D SIM ID	735067
MB 480-735067/1-A	Method Blank	Total/NA	Water	8270D SIM ID	735067
LCS 480-735067/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	735067

GC/MS Semi VOA (Continued)

Analysis Batch: 735225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 480-735067/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	735067

Prep Batch: 735339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	3550C	
480-226209-4	SO-12656942-KP-121024-009	Total/NA	Solid	3550C	
480-226209-7	SO-12656942-KP-121024-011	Total/NA	Solid	3550C	
MB 480-735339/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-735339/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 735371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	8270D	735339
480-226209-4	SO-12656942-KP-121024-009	Total/NA	Solid	8270D	735339
480-226209-7	SO-12656942-KP-121024-011	Total/NA	Solid	8270D	735339
MB 480-735339/1-A	Method Blank	Total/NA	Solid	8270D	735339
LCS 480-735339/2-A	Lab Control Sample	Total/NA	Solid	8270D	735339

GC Semi VOA

Prep Batch: 735068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	3550C	
480-226209-6	SO-12656942-KP-121024-023	Total/NA	Solid	3550C	
MB 480-735068/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-735068/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-226209-6 MS	SO-12656942-KP-121024-023	Total/NA	Solid	3550C	
480-226209-6 MSD	SO-12656942-KP-121024-023	Total/NA	Solid	3550C	

Prep Batch: 735069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	3550C	
480-226209-10	SO-12656942-KP-121024-040	Total/NA	Solid	3550C	
MB 480-735069/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-735069/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-226209-10 MS	SO-12656942-KP-121024-040	Total/NA	Solid	3550C	
480-226209-10 MSD	SO-12656942-KP-121024-040	Total/NA	Solid	3550C	

Analysis Batch: 735119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	8082A	735069
480-226209-10	SO-12656942-KP-121024-040	Total/NA	Solid	8082A	735069
MB 480-735069/1-A	Method Blank	Total/NA	Solid	8082A	735069
LCS 480-735069/2-A	Lab Control Sample	Total/NA	Solid	8082A	735069
480-226209-10 MS	SO-12656942-KP-121024-040	Total/NA	Solid	8082A	735069
480-226209-10 MSD	SO-12656942-KP-121024-040	Total/NA	Solid	8082A	735069

Prep Batch: 735338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	8151A	
480-226209-6	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	

GC Semi VOA (Continued)

Prep Batch: 735338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-735338/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 480-735338/2-A	Lab Control Sample	Total/NA	Solid	8151A	
480-226209-6 MS	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	
480-226209-6 MSD	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	

Analysis Batch: 735362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	8081B	735068
480-226209-6	SO-12656942-KP-121024-023	Total/NA	Solid	8081B	735068
MB 480-735068/1-A	Method Blank	Total/NA	Solid	8081B	735068
LCS 480-735068/2-A	Lab Control Sample	Total/NA	Solid	8081B	735068
480-226209-6 MS	SO-12656942-KP-121024-023	Total/NA	Solid	8081B	735068
480-226209-6 MSD	SO-12656942-KP-121024-023	Total/NA	Solid	8081B	735068

Analysis Batch: 735468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	8151A	735338
480-226209-6	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	735338
MB 480-735338/1-A	Method Blank	Total/NA	Solid	8151A	735338
LCS 480-735338/2-A	Lab Control Sample	Total/NA	Solid	8151A	735338
480-226209-6 MS	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	735338
480-226209-6 MSD	SO-12656942-KP-121024-023	Total/NA	Solid	8151A	735338

LCMS

Prep Batch: 638852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-3	SO-12656942-KP-121024-028	Total/NA	Solid	1633 Shake	
480-226209-11	SO-12656942-KP-121024-024	Total/NA	Solid	1633 Shake	
MB 240-638852/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 240-638852/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 240-638852/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
480-226209-3 MS	SO-12656942-KP-121024-028	Total/NA	Solid	1633 Shake	
480-226209-3 MSD	SO-12656942-KP-121024-028	Total/NA	Solid	1633 Shake	
480-226209-11 DU	SO-12656942-KP-121024-024	Total/NA	Solid	1633 Shake	

Analysis Batch: 638979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-3	SO-12656942-KP-121024-028	Total/NA	Solid	Draft-3 1633	638852
480-226209-11	SO-12656942-KP-121024-024	Total/NA	Solid	Draft-3 1633	638852
MB 240-638852/1-A	Method Blank	Total/NA	Solid	Draft-3 1633	638852
LCS 240-638852/3-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	638852
LLCS 240-638852/2-A	Lab Control Sample	Total/NA	Solid	Draft-3 1633	638852
480-226209-3 MS	SO-12656942-KP-121024-028	Total/NA	Solid	Draft-3 1633	638852
480-226209-3 MSD	SO-12656942-KP-121024-028	Total/NA	Solid	Draft-3 1633	638852
480-226209-11 DU	SO-12656942-KP-121024-024	Total/NA	Solid	Draft-3 1633	638852

Metals

Filtration Batch: 735103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Dissolved	Water	FILTRATION	

Metals (Continued)

Filtration Batch: 735103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-735103/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-735103/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-735103/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-735103/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 480-735103/3-B	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
LCSD 480-735103/3-C	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
480-226209-12 MS	GW-12656942-KP-121024-001	Dissolved	Water	FILTRATION	
480-226209-12 MSD	GW-12656942-KP-121024-001	Dissolved	Water	FILTRATION	

Prep Batch: 735104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	3050B	
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	3050B	
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	3050B	
MB 480-735104/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-735104/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	3050B	
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	3050B	

Prep Batch: 735111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Dissolved	Water	3005A	735103
MB 480-735103/1-B	Method Blank	Dissolved	Water	3005A	735103
LCS 480-735103/2-B	Lab Control Sample	Dissolved	Water	3005A	735103
LCSD 480-735103/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	735103

Prep Batch: 735160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	3005A	
MB 480-735160/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-735160/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-226209-12 MS	GW-12656942-KP-121024-001	Total/NA	Water	3005A	
480-226209-12 MSD	GW-12656942-KP-121024-001	Total/NA	Water	3005A	

Prep Batch: 735169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	7471B	
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	7471B	
MB 480-735169/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-735169/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	

Analysis Batch: 735260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	7471B	735169
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	735169
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	7471B	735169
MB 480-735169/1-A	Method Blank	Total/NA	Solid	7471B	735169
LCSSRM 480-735169/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	735169

Metals (Continued)

Analysis Batch: 735260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	735169
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	7471B	735169

Analysis Batch: 735294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	6010D	735104
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	6010D	735104
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	6010D	735104
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	6010D	735160
MB 480-735104/1-A	Method Blank	Total/NA	Solid	6010D	735104
MB 480-735160/1-A	Method Blank	Total/NA	Water	6010D	735160
LCS 480-735160/2-A	Lab Control Sample	Total/NA	Water	6010D	735160
LCSSRM 480-735104/2-A	Lab Control Sample	Total/NA	Solid	6010D	735104
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	6010D	735104
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	6010D	735104
480-226209-12 MS	GW-12656942-KP-121024-001	Total/NA	Water	6010D	735160
480-226209-12 MSD	GW-12656942-KP-121024-001	Total/NA	Water	6010D	735160

Prep Batch: 735349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735103
MB 480-735103/1-C	Method Blank	Dissolved	Water	7470A	735103
LCS 480-735103/2-C	Lab Control Sample	Dissolved	Water	7470A	735103
LCSD 480-735103/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	735103
480-226209-12 MS	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735103
480-226209-12 MSD	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735103

Prep Batch: 735350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	7470A	
MB 480-735350/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-735350/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 735354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Dissolved	Water	6010D	735111
MB 480-735103/1-B	Method Blank	Dissolved	Water	6010D	735111
LCS 480-735103/2-B	Lab Control Sample	Dissolved	Water	6010D	735111
LCSD 480-735103/3-B	Lab Control Sample Dup	Dissolved	Water	6010D	735111

Analysis Batch: 735356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-735104/1-A	Method Blank	Total/NA	Solid	6010D	735104

Analysis Batch: 735424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735349
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	7470A	735350
MB 480-735103/1-C	Method Blank	Dissolved	Water	7470A	735349
MB 480-735350/1-A	Method Blank	Total/NA	Water	7470A	735350
LCS 480-735103/2-C	Lab Control Sample	Dissolved	Water	7470A	735349

Metals (Continued)

Analysis Batch: 735424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-735350/2-A	Lab Control Sample	Total/NA	Water	7470A	735350
LCSD 480-735103/3-C	Lab Control Sample Dup	Dissolved	Water	7470A	735349
480-226209-12 MS	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735349
480-226209-12 MSD	GW-12656942-KP-121024-001	Dissolved	Water	7470A	735349

General Chemistry

Analysis Batch: 639148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-3	SO-12656942-KP-121024-028	Total/NA	Solid	Moisture	
480-226209-11	SO-12656942-KP-121024-024	Total/NA	Solid	Moisture	
480-226209-3 DU	SO-12656942-KP-121024-028	Total/NA	Solid	Moisture	

Analysis Batch: 735112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-12	GW-12656942-KP-121024-001	Total/NA	Water	9012B	
MB 480-735112/21	Method Blank	Total/NA	Water	9012B	
HLCS 480-735112/22	Lab Control Sample	Total/NA	Water	9012B	
LCS 480-735112/23	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 735171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	Moisture	
480-226209-2	SO-12656942-KP-121024-027	Total/NA	Solid	Moisture	
480-226209-4	SO-12656942-KP-121024-009	Total/NA	Solid	Moisture	
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	Moisture	
480-226209-6	SO-12656942-KP-121024-023	Total/NA	Solid	Moisture	
480-226209-7	SO-12656942-KP-121024-011	Total/NA	Solid	Moisture	
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	Moisture	
480-226209-9	SO-12656942-KP-121024-025	Total/NA	Solid	Moisture	
480-226209-10	SO-12656942-KP-121024-040	Total/NA	Solid	Moisture	

Prep Batch: 735607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	9012B	
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	9012B	
MB 480-735607/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 480-735607/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCS 480-735607/4-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 480-735607/2-A	Lab Control Sample	Total/NA	Solid	9012B	
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	

Analysis Batch: 735629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226209-1	SO-12656942-KP-121024-026	Total/NA	Solid	9012B	735607
480-226209-5	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	735607
480-226209-8	SO-12656942-KP-121024-012	Total/NA	Solid	9012B	735607
MB 480-735607/1-A	Method Blank	Total/NA	Solid	9012B	735607
LCS 480-735607/3-A	Lab Control Sample	Total/NA	Solid	9012B	735607

General Chemistry (Continued)

Analysis Batch: 735629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-735607/4-A	Lab Control Sample	Total/NA	Solid	9012B	735607
LCSSRM 480-735607/2-A	Lab Control Sample	Total/NA	Solid	9012B	735607
480-226209-5 MS	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	735607
480-226209-5 MSD	SO-12656942-KP-121024-010	Total/NA	Solid	9012B	735607

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-026 — Lab Sample ID: 480-226209-1

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-026 — Lab Sample ID: 480-226209-1

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735339	DP	EET BUF	12/15/24 07:11
Total/NA	Analysis	8270D		1	735371	AF	EET BUF	12/16/24 14:21
Total/NA	Prep	3050B			735104	EMO	EET BUF	12/12/24 14:04
Total/NA	Analysis	6010D		1	735294	BMB	EET BUF	12/13/24 14:05
Total/NA	Prep	7471B			735169	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 12:33
Total/NA	Prep	9012B			735607	AM	EET BUF	12/17/24 11:55
Total/NA	Analysis	9012B		1	735629	AM	EET BUF	12/18/24 11:38

Client Sample ID: SO-12656942-KP-121024-027 — Lab Sample ID: 480-226209-2

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-027 — Lab Sample ID: 480-226209-2

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 13:48
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735119	W1T	EET BUF	12/12/24 18:57
Total/NA	Prep	8151A			735338	DP	EET BUF	12/15/24 07:01
Total/NA	Analysis	8151A		1	735468	MAN	EET BUF	12/17/24 14:18

Client Sample ID: SO-12656942-KP-121024-028 — Lab Sample ID: 480-226209-3

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-028 — Lab Sample ID: 480-226209-3

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638852	KML	EET CLE	12/16/24 08:35
Total/NA	Analysis	Draft-3 1633		1	638979	DSH	EET CLE	12/17/24 03:51

Client Sample ID: SO-12656942-KP-121024-009 — Lab Sample ID: 480-226209-4

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-009 — Lab Sample ID: 480-226209-4

Date Collected: 12/11/24 09:25 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 77.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 16:30
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/12/24 00:22
Total/NA	Prep	3550C			735339	DP	EET BUF	12/15/24 07:11
Total/NA	Analysis	8270D		1	735371	AF	EET BUF	12/16/24 14:48

Client Sample ID: SO-12656942-KP-121024-010 — Lab Sample ID: 480-226209-5

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-010 — Lab Sample ID: 480-226209-5

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			735104	EMO	EET BUF	12/12/24 14:04
Total/NA	Analysis	6010D		1	735294	BMB	EET BUF	12/13/24 14:07
Total/NA	Prep	7471B			735169	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 12:34
Total/NA	Prep	9012B			735607	AM	EET BUF	12/17/24 11:55
Total/NA	Analysis	9012B		1	735629	AM	EET BUF	12/18/24 11:34

Client Sample ID: SO-12656942-KP-121024-023 — Lab Sample ID: 480-226209-6

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-023 — Lab Sample ID: 480-226209-6

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 87.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735068	SMP	EET BUF	12/12/24 07:25
Total/NA	Analysis	8081B		1	735362	JLS	EET BUF	12/16/24 11:11
Total/NA	Prep	8151A			735338	DP	EET BUF	12/15/24 07:01
Total/NA	Analysis	8151A		1	735468	MAN	EET BUF	12/17/24 14:00

Client Sample ID: SO-12656942-KP-121024-011 — Lab Sample ID: 480-226209-7

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-011 — Lab Sample ID: 480-226209-7

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 78.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 16:30
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/12/24 00:49
Total/NA	Prep	3550C			735339	DP	EET BUF	12/15/24 07:11
Total/NA	Analysis	8270D		1	735371	AF	EET BUF	12/16/24 15:14

Client Sample ID: SO-12656942-KP-121024-012 — Lab Sample ID: 480-226209-8

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-012 — Lab Sample ID: 480-226209-8

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			735104	EMO	EET BUF	12/12/24 14:04
Total/NA	Analysis	6010D		1	735294	BMB	EET BUF	12/13/24 14:16
Total/NA	Prep	7471B			735169	ESB	EET BUF	12/13/24 09:11
Total/NA	Analysis	7471B		1	735260	ESB	EET BUF	12/13/24 12:39
Total/NA	Prep	9012B			735607	AM	EET BUF	12/17/24 11:55
Total/NA	Analysis	9012B		1	735629	AM	EET BUF	12/18/24 11:38

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: SO-12656942-KP-121024-025 — Lab Sample ID: 480-226209-9

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-025 — Lab Sample ID: 480-226209-9

Date Collected: 12/11/24 10:10 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			735053	CDC	EET BUF	12/11/24 16:30
Total/NA	Analysis	8260C		1	735054	CDC	EET BUF	12/12/24 01:16

Client Sample ID: SO-12656942-KP-121024-040 — Lab Sample ID: 480-226209-10

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	735171	JMM	EET BUF	12/12/24 15:46

Client Sample ID: SO-12656942-KP-121024-040 — Lab Sample ID: 480-226209-10

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			735069	SMP	EET BUF	12/12/24 07:32
Total/NA	Analysis	8082A		1	735119	W1T	EET BUF	12/12/24 16:11

Client Sample ID: SO-12656942-KP-121024-024 — Lab Sample ID: 480-226209-11

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	639148	SC3B	EET CLE	12/17/24 14:46

Client Sample ID: SO-12656942-KP-121024-024 — Lab Sample ID: 480-226209-11

Date Collected: 12/11/24 10:40 — **Matrix: Solid**
Date Received: 12/11/24 13:25 — **Percent Solids: 84.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake			638852	KML	EET CLE	12/16/24 08:35
Total/NA	Analysis	Draft-3 1633		1	638979	DSH	EET CLE	12/17/24 04:41

Client Sample ID: GW-12656942-KP-121024-001 — Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	735106	ERS	EET BUF	12/12/24 13:56

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Client Sample ID: GW-12656942-KP-121024-001 — Lab Sample ID: 480-226209-12

Date Collected: 12/11/24 07:30 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			735139	LSC	EET BUF	12/12/24 14:26
Total/NA	Analysis	8270D		1	735218	JMM	EET BUF	12/13/24 23:33
Dissolved	Filtration	FILTRATION			735103	EMO	EET BUF	12/12/24 09:28
Dissolved	Prep	3005A			735111	EMO	EET BUF	12/13/24 08:34
Dissolved	Analysis	6010D		1	735354	MP	EET BUF	12/13/24 16:33
Total/NA	Prep	3005A			735160	ET	EET BUF	12/13/24 08:39
Total/NA	Analysis	6010D		1	735294	BMB	EET BUF	12/13/24 15:38
Dissolved	Filtration	FILTRATION			735103	EMO	EET BUF	12/12/24 09:28
Dissolved	Prep	7470A			735349	ESB	EET BUF	12/16/24 09:36
Dissolved	Analysis	7470A		1	735424	ESB	EET BUF	12/16/24 12:35
Total/NA	Prep	7470A			735350	ESB	EET BUF	12/16/24 09:36
Total/NA	Analysis	7470A		1	735424	ESB	EET BUF	12/16/24 12:51
Total/NA	Analysis	9012B		1	735112	CLT	EET BUF	12/12/24 08:06

Client Sample ID: GW-12656942-KP-121024-002 — Lab Sample ID: 480-226209-13

Date Collected: 12/11/24 08:15 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	735106	ERS	EET BUF	12/12/24 14:21

Client Sample ID: GW-12656942-KP-121024-011 — Lab Sample ID: 480-226209-14

Date Collected: 12/11/24 09:45 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			735067	SMP	EET BUF	12/12/24 07:20
Total/NA	Analysis	8270D SIM ID		1	735225	JMM	EET BUF	12/13/24 15:31

Client Sample ID: GW-12656942-KP-121024-003 — Lab Sample ID: 480-226209-15

Date Collected: 12/11/24 11:45 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	735106	ERS	EET BUF	12/12/24 14:46

Client Sample ID: Trip blank — Lab Sample ID: 480-226209-16

Date Collected: 12/11/24 00:00 — **Matrix: Water**
Date Received: 12/11/24 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	735106	ERS	EET BUF	12/12/24 15:11

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Method Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
Draft-3 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
6010D	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable	SW846	EET BUF
9012B	Cyanide, Total andor Amenable	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
Moisture	Percent Moisture	EPA	EET CLE
1633 Shake	Shake Extraction with SPE	EPA	EET CLE
3005A	Preparation, Total Metals	SW846	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET BUF
FILTRATION	Sample Filtration	None	EET BUF

Protocol References:

EPA = US Environmental Protection Agency
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: GHD Services Inc.
Project/Site: 12656942, Jenesis

Job ID: 480-226209-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-226209-1	SO-12656942-KP-121024-026	Solid	12/11/24 09:25	12/11/24 13:25
480-226209-2	SO-12656942-KP-121024-027	Solid	12/11/24 09:25	12/11/24 13:25
480-226209-3	SO-12656942-KP-121024-028	Solid	12/11/24 09:25	12/11/24 13:25
480-226209-4	SO-12656942-KP-121024-009	Solid	12/11/24 09:25	12/11/24 13:25
480-226209-5	SO-12656942-KP-121024-010	Solid	12/11/24 10:10	12/11/24 13:25
480-226209-6	SO-12656942-KP-121024-023	Solid	12/11/24 10:10	12/11/24 13:25
480-226209-7	SO-12656942-KP-121024-011	Solid	12/11/24 10:40	12/11/24 13:25
480-226209-8	SO-12656942-KP-121024-012	Solid	12/11/24 10:40	12/11/24 13:25
480-226209-9	SO-12656942-KP-121024-025	Solid	12/11/24 10:10	12/11/24 13:25
480-226209-10	SO-12656942-KP-121024-040	Solid	12/11/24 10:40	12/11/24 13:25
480-226209-11	SO-12656942-KP-121024-024	Solid	12/11/24 10:40	12/11/24 13:25
480-226209-12	GW-12656942-KP-121024-001	Water	12/11/24 07:30	12/11/24 13:25
480-226209-13	GW-12656942-KP-121024-002	Water	12/11/24 08:15	12/11/24 13:25
480-226209-14	GW-12656942-KP-121024-011	Water	12/11/24 09:45	12/11/24 13:25
480-226209-15	GW-12656942-KP-121024-003	Water	12/11/24 11:45	12/11/24 13:25
480-226209-16	Trip blank	Water	12/11/24 00:00	12/11/24 13:25

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Kathryn Ploss	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-201418-41459.1
Client Contact: Christopher Arcuri	Phone: 716-205-1888	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin: NY	Page: ~~Page 1 of 1~~ MP 12/9 1 of 2
Company: GHD Services Inc.	PWSID:			Job #: 12656942
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 5 BD			
State, Zip: NY, 14304	Compliance Project: Δ Yes Δ No			
Phone: 717-585-6408(Tel)	PO #: Purchase Order Requested			
Email: christopher.arcuri@ghd.com	WO #: ~~14218347~~ 12656942			
Project Name: ~~[illegible]~~, Jenesis 12656942	Project #: 48023003			
Site: 1112 + 1114 Niagara St, Buffalo NY	SSOW#: 12656942-02-2024			

Analysis Requested

Preservation Codes:
N - None
A - HCL
D - HNO3
B - NaOH

480-226209 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - PFAS	8260C - VOCs	~~6010D~~ TAL Metals, ~~PCBs, SN~~ 6010D / 7471B	8270D - SVOCs, ~~Pesticides~~ MP 12/9 TCL	~~8080B - VOCs~~ Total Cyanide 9012B	8082A - PCBs	8081B - Pesticides	~~8270D - SVOCs~~ MP 12/9	~~8270D - SIM_MS_ID - 1,4-dioxane~~ MP 12/9	~~8010D - TAL Metals, Total~~ MP 12/9	8151A - Herbicides	~~8012B - Cyanide, Total~~ MP 12/9	~~8010B~~ MP 12/9	Total N	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	N	N	N	D	N	B	N	X	
SO-12656942-KP-121024-026	12/11/24	0925	G	Solid					X	X	X									2	
SO-12656942-KP-121024-027	12/11/24	0925	G	Solid								X	X				X			2	
SO-12656942-KP-121024-028	12/11/24	0925	G	Solid			X													3	MS/MSD
SO-12656942-KP-121024-009	12/11/24	0925	G	Solid				X		X										5	
SO-12656942-KP-121024-010	12/11/24	1010	G	Solid					X		X									3	MS/MSD
SO-12656942-KP-121024-023	12/11/24	1010	G	Solid									X				X			3	MS/MSD
SO-12656942-KP-121024-011	12/11/24	1040	G	Solid				X		X										5	
SO-12656942-KP-121024-012	12/11/24	1040	G	Solid					X		X									1	
SO-12656942-KP-121024-025	12/11/24	1010	G	Solid				X												4	
SO-12656942-KP-121024-040	12/11/24	1040	G	Solid								X								3	MS/MSD
SO-12656942-KP-121024-024	12/11/24	1040	G	Solid			X													1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature] Kathryn Ploss	12/11/24 13:25		[signature]	12/11/24 1325	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.3, 7.9 IR#SC Ice

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Kathryn Ploss	Lab PM: Heckler, Denise D	Carrier Tracking No(s):	COC No: 480-201418-41459.1
Client Contact: Christopher Arcuri	Phone: 716-265-1888	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin: NY	Page: Page 2 of 2
Company: GHD Services Inc.	PWSID:			Job #: 12656942
Address: 2055 Niagara Falls Blvd., Suite 3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 5 BD			
State, Zip: NY, 14304	Compliance Project: Δ Yes Δ No			
Phone: 717-585-6408(Tel)	PO #: Purchase Order Requested			
Email: christopher.arcuri@ghd.com	WO #: 12656942			
Project Name: Jenesis 12656942	Project #: 48023003			
Site: 1112+1114 Niagara St, Buffalo NY	SSOW#: 12656942-02-2024			

Analysis Requested

Preservation Codes: N - None; A - HCL; D - HNO3; B - NaOH; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BTissue, AAir)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 - PFAS	8260C - VOCs	8082A - PCBs	8081B - Pesticides	8270D - SVOCs	8270D_SIM_MS_ID - 1,4-dioxane	8151A - Herbicides	90128 - Cyanide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	A	N	N	N	N	N	B	X	
GW-12656942-KP-121024-001	12/11/24	0730	G	Solid Water				X			X			X	8	please filter and preserve for dissolved metals
GW-12656942-KP-121024-002	12/11/24	0815	G	Solid Water				X							3	
GW-12656942-KP-121024-011	12/11/24	0945	G	Solid Water								X			2	
GW-12656942-KP-121024-003	12/11/24	1145	G	Solid Water				X							3	
Trip Blank	12/11/24			Solid Water				X							2	
				Solid Water												
				Solid Water												
				Solid Water												
				Solid Water												
				Solid Water												
				Solid Water												

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kathryn Ploss	12/11/24 13:25		[signature]	12/11/24 1338	TA

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

Ver: 10/10/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691 7991

3313.4

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Heckler Denise D	Carrier Tracking No(s): N/A	COC No: 480-90940.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Denise.Heckler@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP New York		Job #: 480-226209-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/18/2024			Preservation Codes:
City: Barberton	TAT Requested (days): N/A			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 12656942, Jenesis	Project #: 48023003			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_Shake PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SO-12656942-KP-121024-028 (480-226209-3)	12/11/24	09:25 Eastern	G	Solid			X	1	
SO-12656942-KP-121024-028 (480-226209-3MS)	12/11/24	09:25 Eastern	G	Solid			X	1	
SO-12656942-KP-121024-028 (480-226209-3MSD)	12/11/24	09:25 Eastern	G	Solid			X	1	
SO-12656942-KP-121024-024 (480-226209-11)	12/11/24	10:40 Eastern	G	Solid			X	1	

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

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

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
MS	12-12-24 1600		JJ	12/13/24 1000	Euns
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 10/10/2024

12/19/2024

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Interclas Buff Site Name _____ Cooler unpacked by: TF

Cooler Received on 12/13/24 Opened on 12/13/24

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 5 Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °C) Observed Cooler Temp. 3 3 °C Corrected Cooler Temp 3 4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   - -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   - -Were tamper/custody seals intact and uncompromised? Yes No NA
3 Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5 Were the custody papers relinquished & signed in the appropriate place? Yes No
6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7 Did all bottles arrive in good condition (Unbroken)? Yes No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?
10 Were correct bottle(s) used for the test(s) indicated? Yes No
11 Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
   If yes, Questions 13-17 have been checked at the originating laboratory
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC448976
14 Were VOAs on the COC? Yes No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17 Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____
_____
_____
_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory
Time preserved: _____ Preservative(s) added/Lot number(s). _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

ORIGIN ID:BUFKA (716) 691-2600
SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE

BUFFALO, NY 142282223
UNITED STATES US

SHIP DATE: 12DEC24
ACTWGT: 28.30 LB
CAD: 0759273/CAFE3855
DIMS: 18x15x13 IN

BILL SENDER

TO SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543
(330) 497-9396
REF. BARBERTON

Part # 159469-434 MTW EXP 07/25

FedEx Express

TRK# 0201 7463 0661 6654

FRI - 13 DEC 12:00P
PRIORITY OVERNIGHT

NX CAKA

44203
OH-US CLE

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 480-226209-1

Login Number: 226209
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3, 7.9 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	Terra forzen at 1630 on 12/11/24
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GHD Services
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	