March 22, 2023

Zack Phillips
Phillips Real Estate LLC
40 Greenleaf Street
City of Rochester, New York 14609

RE: Phase II Environmental Site Assessment
91 Leighton Avenue
City of Rochester, New York 14609

Dear Mr. Phillips,

Lu Engineers is pleased to submit this Phase II Environmental Site Assessment (ESA) summary letter to present findings of a recent subsurface investigation completed at 91 Leighton Avenue (the Site), located in the City of Rochester, New York (Figure 1). This report provides a brief description of soil borings, associated soil sampling, and groundwater sampling completed as part of the investigation on March 3 & 6, 2023.

Background

The Site is currently unoccupied. A Phase I ESA conducted by LaBella Associates D.P.C. dated January 24, 2023, identified the following Recognized Environmental Conditions (RECs):

- Between at least 1938 and 1955, the Site was occupied by a can manufacturing facility with a metal lacquer spray booth and die storage area.
- The City of Rochester issued a permit to remove one 550-gallon tank from the Site in 1982. No closure documentation was provided.
- In October 2022, a fire destroyed the on-site building. According to the City of Rochester Fire Report, the former 55,925 square-foot storage building was utilized to store automobiles.
- Areas of solid waste (including automotive parts, glass, bricks, ash, concrete, asphalt, and household debris) were observed on-Site. The solid waste appears to be associated with the 2022 fire and associated demolition residues.

This investigation was conducted to evaluate subsurface environmental conditions at the Site associated with past use and the historical fire. Work was performed in accordance with Lu Engineers' proposal, dated February 17, 2023. The following sections summarize the activities and findings of the subsurface investigation.

Ground Penetrating Radar Survey

Prior to implementing the subsurface investigation, a geophysical survey of proposed soil boring locations and other areas of the property was completed utilizing ground penetrating radar (GPR). GPR was used to verify completeness of the Underground Facilities Protection Organization (UFPO) utility line stake-out. The GPR survey was also intended to verify the location of drainage systems and/or other buried features of potential environmental significance prior to intrusive subsurface work.

No anomalous features of potential environmental concern were observed during the GPR survey across the remainder of the Site.

It is noted that due to snow cover, presence of demolition debris, and remaining concrete building slabs, a comprehensive GPR survey of the entire Site could not be performed. During the visual Site inspection, multiple subsurface voids and holes in the former building floor slab were observed. The voids appear to be associated with former floor drains and/or crawlspaces and have been partially filled in with building debris. A detailed inspection of the voids was not feasible.

Soil Borings

On March 3, 2023, Trec Environmental Inc. mobilized a 54LT direct-push Geoprobe® to the Site to implement the soil boring program. In accordance with the proposed scope of services for this project, 12 soil borings were advanced to refusal, with oversight from Lu Engineers. Boring locations and associated soil sampling results are indicated on Figure 2.

Soils were logged using the Burmister Classification System and screened for volatile organic compounds (VOCs) by qualified Lu Engineers personnel. Several methods were utilized to detect impacted soil including the use of a MiniRAE 3000® Photoionization Detector (PID) for screening, as well as visual and olfactory observations. Site soils consisted primarily of silt and fine sand, with lesser portions of gravel and clay. Groundwater was generally encountered at depths ranging from 6 to 8-feet below ground surface (bgs). Bedrock was observed at an average depth of 12.5-feet bgs.

Three (3) temporary monitoring wells, GPMW-01, GPMW-05, and GPMW-10, were installed as part of the soil boring program. The wells were constructed using 5-feet of 0.010-slotted well screen and completed with a quartz sand pack. A minimum of 2-foot thick bentonite seal was used to finish the wells up to ground surface.

Descriptions and observations of each boring are provided in the attached soil boring logs (Attachment B).

Investigation Findings & Sampling

As noted in the boring logs, screening of soils during the subsurface investigation identified widespread urban fill and limited evidence of degraded VOCs. Soils located in southeast corner of the property along the former rail alignment exhibited synthetic (possible solvent) odors and discoloration at depths ranging from 8 to 12-feet bgs. PID screening of these soils indicated maximum reading of 0.4 ppm.

PID screening throughout the soil boring program detected a volatile organic vapor concentrations ranging from 0 to 21.4 parts per million (ppm); the peak reading being associated with shallow soils exhibiting faint gasoline-like odors at GP-04.

Representative soil samples were collected for the following laboratory analyses:

- TCL VOCs by Environmental Protection Agency (EPA) Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Resource Conservation and Recovery Act (RCRA) Metals by EPA Methods 6010/7471;
- TCLP Lead; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Refer to the following table for information regarding sample depths and analytical methods:

Sample ID	Depth (feet bgs)	Peak PID Readings	Analyses
GP-02	4-6'	0.0	PCBs
GP-04	1-3'	21.4	VOCs
GPMW-05	9-11'	0.4	VOCs
GP-08	8-9'	0.0	VOCs, PCBs
Composite-01	1-2' (GP-02) & 1-3' (GP-03)	0.0	SVOCs, RCRA Metals
Composite-02	2-6' (GP-07) & 2-4' (GP-08)	0.0	SVOCs, RCRA Metals

Additionally, three (3) groundwater samples were collected for the following laboratory analysis:

- TCL VOCs by EPA Method 8260;
- Resource Conservation and Recovery Act (RCRA) Metals by EPA Methods 6010/7471; and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Refer to the following table for information regarding sample depths and analytical methods:

Sample ID	Groundwater Elevation*	Analyses
GPMW-01	91.51'	VOCs
GPMW-05	91.9'	VOCs, RCRA Metals, PCBs
GPMW-10	93.6'	VOCs, RCRA Metals, PCBs

*Based on arbitrary benchmark of 100-feet

In accordance with applicable New York State Department of Environmental Conservation (NYSDEC) protocols, all samples were stored on ice until relinquished for laboratory analysis at Alpha Analytical Inc., a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) analytical laboratory.

Soil Sample Results

Soil sample analytical results were compared to 6 New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.8(b) Commercial Use Soil Cleanup Objectives (SCOs) and Part 375-6.8(c) Industrial SCOs:

VOC Results

- Soil samples from GP-04 and GPMW-05 identified multiple VOCs at concentrations exceeding applicable regulatory criteria:
    - 1,2,4-Trimethylbenzene detected at GP-04 (53.0 ppm) exceeds Unrestricted/Protection of Groundwater and Residential Use criteria.
    - Naphthalene, 1,3,5-trimethylbenzene, xylenes, detected at GP-04 and acetone detected at GPMW-05 exceed Unrestricted/Protection of Groundwater Use criteria.

SVOC Results

- Soil sample Composite-02 identified multiple SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding applicable regulatory criteria:
    - Benzo(a)pyrene detected at a concentration of 1.60 ppm exceeds Industrial Use criteria.
    - Benzo(b)fluoranthene, benzo(a)anthracene, chrysene, and indeno(1,2,3-cd)pyrene were detected at concentrations exceeding Unrestricted and Residential Use criteria.

Metals Results

- Soil sample Composite-02 identified multiple metals at concentrations exceeding applicable regulatory criteria:
  - Chromium detected at a concentration of 37.1 ppm exceeds Unrestricted and Residential Use criteria. It is noted that guidance values for trivalent chromium outlined in 6 NYCRR Part 375-6.8 were used for purposes of comparison. Sample analytical results are indicative of total chromium concentrations (the sum of hexavalent and trivalent chromium concentrations). Additional testing would be required to distinguish the specific concentrations of chromium valences within the analyzed sample.
  - Lead detected at a concentration of 130 ppm exceeds Unrestricted and Residential Use criteria. Based on analytical results, additional TCLP lead analysis was performed on sample Composite-02, which indicated results below applicable regulatory criteria.

PCB Results

- No detectable concentrations of PCBs were observed in the analyzed soil samples.

Groundwater Sample Results

Groundwater sample analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 class GA Ambient Groundwater standards:

VOC Results

- Groundwater sampling identified several VOCs at concentrations exceeding applicable regulatory criteria:
  - Trichloroethene (TCE) was detected in exceedance of Class GA standards at concentrations of 220 and 13.0 parts per billion (ppb) (GPMW-01 and GPMW-10, respectively).
  - Tetrachloroethene (PCE) was detected in exceedance of Class GA standards at a concentration of 5.60 ppb at GPMW-01.
  - Acetone was detected in exceedance of Class GA standards at a concentration of 54.0 ppb at GPMW-01.
  - Benzene was detected in exceedance of Class GA standards at a concentration of 2.70 ppb at GPMW-05.

Metals Results

- Groundwater sample GPMW-05 identified several metals at concentrations exceeding applicable regulatory criteria:
  - Lead and selenium were detected in exceedance of Class GA standards. It is noted that groundwater exhibited high turbidity at the time of sampling. Results of detected metals may be inflated.

PCB Results

- No detectable concentrations of PCBs were identified in the laboratory analyzed groundwater samples.

Refer to the attached Tables and Figures for a summary of analytical results; a copy of the laboratory analytical report is included as Attachment C.

Conclusions & Recommendations

Evidence of widespread subsurface environmental impairment as a result of the 2022 fire was not identified during this investigation. Analytical results indicating exceedances of applicable NYSDEC regulatory criteria are associated with historical use of the Site.

Industrial exceedances of PAHs identified in shallow fill during this assessment are commonly observed at elevated concentrations in urban environments and do not present a significant environmental risk at this time. VOCs and metals identified in subsurface soils that exceed Unrestricted and Residential Use criteria and are likely attributable to historical industrial operations on the property and surrounding area.

Groundwater analytical results identified chlorinated solvents in exceedance of applicable regulatory criteria. Based on inferred groundwater flow pathways observed during the investigation, it is suspected that elevated concentrations of TCE observed at GPMW-10 may be originating from the northern end of the subject property, or a potential off-Site source to the north. Lu Engineers recommends that additional monitoring wells be installed to further characterize Site flow patterns and more precisely characterize the nature and extent of documented exceedances.

No evidence of the 500-gallon tank (i.e. fill ports, conduits, etc.) was observed; however, due to the limitations encountered during the GPR survey, the potential for the presence of a tank remains. Lu Engineers recommends the development of an Environmental Management Plan (EMP) for Site. The EMP would provide guidance for a contractor on the handling and disposition of soils exceeding regulatory criteria, as well as the various piles of soils and solid wastes, and outline necessary procedures for closure of a potential tank in accordance with applicable regulatory criteria during future redevelopment.

Please contact us with any questions or comments you may have.

Respectfully Submitted,

Gregory L. Andrus, P.G.
Group Leader
Environmental Investigation/Remediation Group

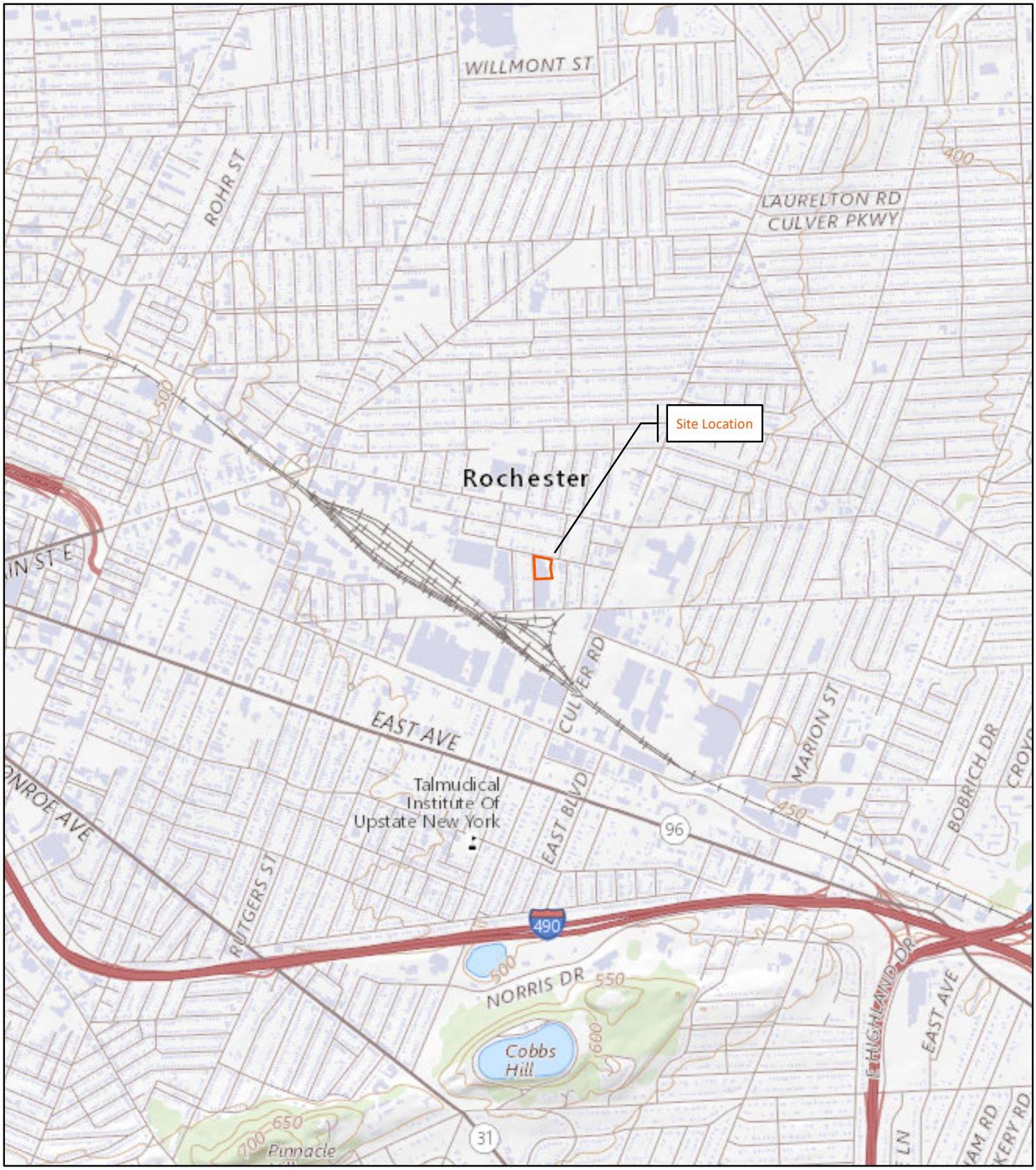
Benjamin Seifert
Geologist; GIS Specialist
Environmental Investigation/Remediation Group

Enclosure(s):

Figures:
Figure 1 – Site Location Map
Figure 2 – Analytical Results Map

Tables:
Table 1 – Soil Sample Analytical Results
Table 2 – Groundwater Sample Analytical Results

Attachments:
Attachment A – Photos
Attachment B – Soil Boring Logs
Attachment C – Laboratory Report



Scale 1: 24,000

Contour Interval: 20-feet

0 800 1,600 3,200 4,800 6,400 Feet

N

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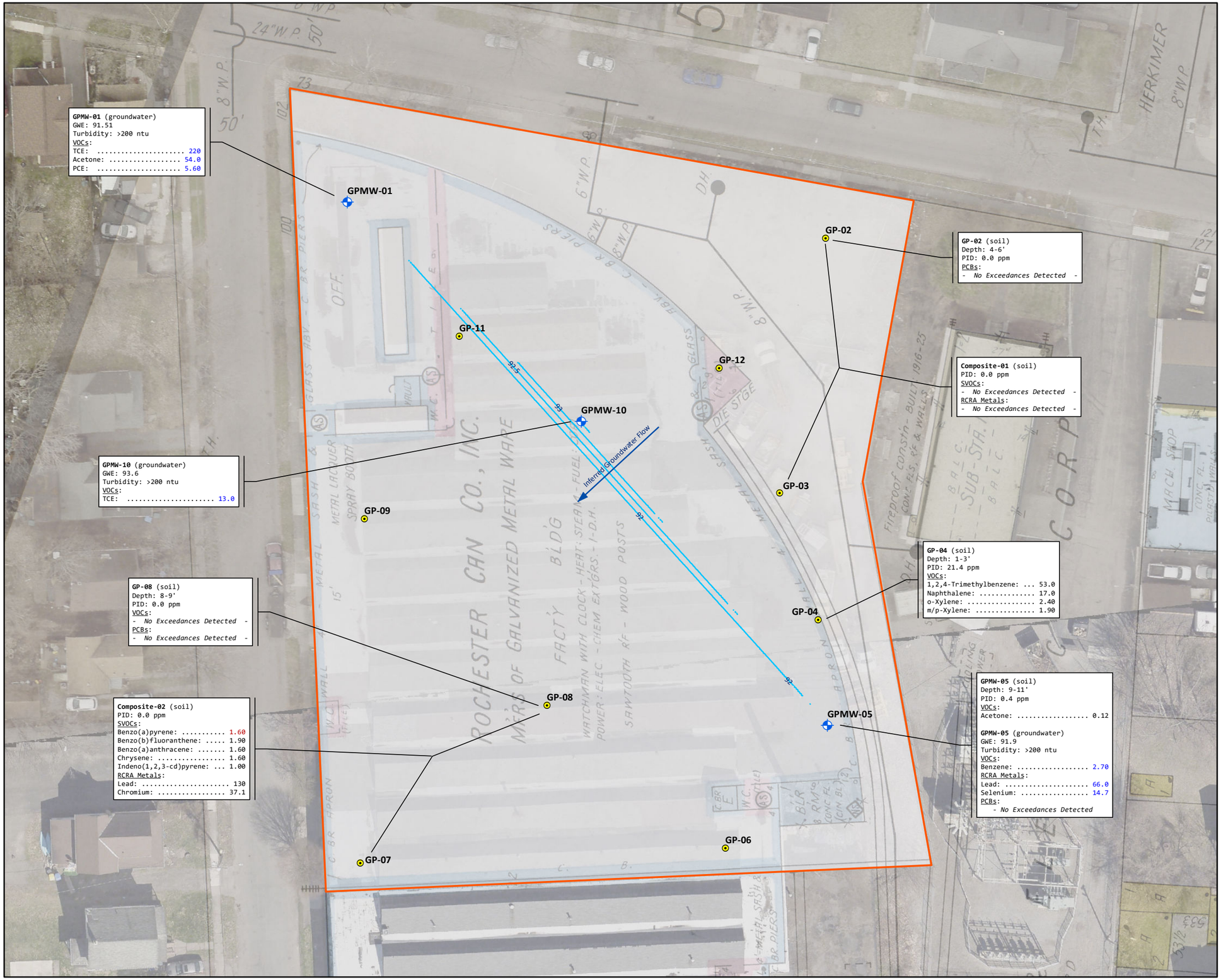
Figure 1. Site Location Map
91 Leighton Ave, City of Rochester NY
Phase II Environmental Site Assessment
Phillips Real Estate, LLC

DATE: March 2023
PROJECT #: 50527-01
DRAWN/CHECKED: MGA/GLA
DATA SOURCE: ESRI Online Basemap



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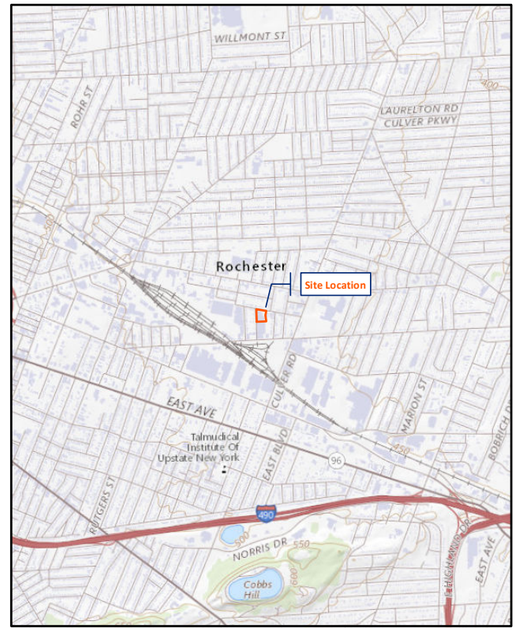

Figure 2:
Sample Analytical Results Map

Project:
Mr. Zack Phillips
Phase II Environmental Site Assessment

Location:
91 Leighton Avenue
City of Rochester, Monroe County, NY

Legend

- Site Boundary
- Soil Boring
- Soil Boring/Monitoring Well

Note(s):
- Soil sample results presented in parts per million (ppm)
- Groundwater sample results presented in parts per billion (ppb)
TEXT: Indicates exceedance of Unrestricted Use SCOs
TEXT: Indicates exceedance of Industrial SCOs
TEXT: Indicates exceedance of groundwater standards

N

1 inch = 40 feet

0 20 40 80 Feet

Drawn/Checked By:	BGS/GLA
Lu Project Number:	50527-01
Date:	March 2023

Notes:
1. Coordinate System: NAD 1983 (2011) State Plane NY Central FIPS 3102 Feet
2. Orthoimagery (October 2021) downloaded from Pictometry
3. Scale: 1:480 (original document size 11"x17")

Table 1 – 91 Leighton Avenue
Soil Sample Analytical Results

Soil Sample Analytical Results Detected Parameters:			Sample ID:	GP-02	GP-04	GPMW-05	GP-08	COMPOSITE-01	COMPOSITE-02
			Date Sampled:	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023
			Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil
			Sample Depth:	4-6'	1-3'	9-11'	8-9'	GP-02 1-2', GP-08 2-4'	GP-07 2-6', GP-08 2-4'
EPA 8260-VOCs	NYSDEC Part 375 SCOs[a]			Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
	Unrestricted Use	Commercial Soil	Industrial Soil						
1,1,1-Trichloroethane	0.68	500	1000	--	< ND	< ND	< ND	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	< ND	< ND	< ND	--	--
1,1,2-Trichloroethane	--	--	--	--	< ND	< ND	< ND	--	--
1,1-Dichloroethane	0.27	240	480	--	< ND	< ND	< ND	--	--
1,1-Dichloroethene	0.33	500	1,000	--	< ND	< ND	< ND	--	--
1,2,4-Trichlorobenzene	--	--	--	--	< ND	< ND	< ND	--	--
1,2,4-Trimethylbenzene	3.6	190	380	--	**53.0 D**	**0.0062**	**0.0072**	--	--
1,2-Dibromo-3-chloropropane	--	--	--	--	< ND	< ND	< ND	--	--
1,2-Dibromoethane	--	--	--	--	< ND	< ND	< ND	--	--
1,2-Dichlorobenzene	1.1	500	1000	--	< ND	< ND	< ND	--	--
1,2-Dichloroethane	0.02	30	60	--	< ND	< ND	< ND	--	--
1,2-Dichloropropane	--	--	--	--	< ND	< ND	< ND	--	--
1,3,5-Trimethylbenzene	8.4	190	380	--	**12.0**	**0.0014 J**	**0.0110**	--	--
1,3-Dichlorobenzene	2.4	280	560	--	< ND	< ND	< ND	--	--
1,4-Dichlorobenzene	1.8	130	250	--	< ND	< ND	< ND	--	--
2-Butanone	0.12	500	1000	--	< ND	**0.0190**	< ND	--	--
2-Hexanone	--	--	--	--	< ND	< ND	< ND	--	--
4-Methyl-2-pentanone	--	--	--	--	< ND	< ND	< ND	--	--
Acetone	0.05	500	1000	--	< ND	**0.12**	**0.0063 J**	--	--
Benzene	0.06	44	89	--	< ND	**0.0003 J**	< ND	--	--
Bromodichloromethane	--	--	--	--	< ND	< ND	< ND	--	--
Bromoform	--	--	--	--	< ND	< ND	< ND	--	--
Bromomethane	--	--	--	--	< ND	< ND	< ND	--	--
Carbon disulfide	--	--	--	--	< ND	< ND	< ND	--	--
Carbon tetrachloride	0.76	22	44	--	< ND	< ND	< ND	--	--
Chlorobenzene	1.1	500	1000	--	< ND	< ND	< ND	--	--
Chloroethane	--	--	--	--	< ND	< ND	< ND	--	--
Chloroform	0.37	350	700	--	< ND	< ND	< ND	--	--
Chloromethane	--	--	--	--	< ND	< ND	< ND	--	--
cis-1,2-Dichloroethene	0.25	500	1000	--	< ND	< ND	< ND	--	--
cis-1,3-Dichloropropene	--	--	--	--	< ND	< ND	< ND	--	--
Cyclohexane	--	--	--	--	< ND	< ND	< ND	--	--
Dibromochloromethane	--	--	--	--	< ND	< ND	< ND	--	--
Dichlorodifluoromethane	--	--	--	--	< ND	< ND	< ND	--	--
Ethylbenzene	1.0	390	780	--	**0.18**	**0.0003 J**	**0.0005 J**	--	--
Freon-113	--	--	--	--	< ND	< ND	< ND	--	--
Isopropylbenzene	--	--	--	--	**0.35**	< ND	< ND	--	--
Methyl Acetate	--	--	--	--	**0.14 J**	< ND	< ND	--	--
Methyl cyclohexane	--	--	--	--	< ND	< ND	< ND	--	--
Methyl tert butyl ether	0.93	500	1000	--	< ND	< ND	< ND	--	--
Methylene chloride	0.05	500	1000	--	< ND	< ND	< ND	--	--
Naphthalene	12	500	1000	--	**17.0**	**0.0010 J**	**0.0008 J**	--	--
n-Butylbenzene	12	--	--	--	**2.30**	< ND	**0.0004 J**	--	--
n-Propylbenzene	3.9	500	1000	--	**1.90**	**0.0004 J**	**0.0008 J**	--	--
o-Xylene	0.26	500	1000	--	**2.40**	**0.0016**	**0.0092**	--	--
p/m-Xylene	0.26	500	1000	--	**1.90**	**0.0014 J**	**0.0012 J**	--	--
p-Isopropyltoluene	--	--	--	--	**0.41**	< ND	**0.0002 J**	--	--
sec-Butylbenzene	11	500	1000	--	**0.58**	< ND	< ND	--	--
Styrene	--	--	--	--	< ND	< ND	< ND	--	--
tert-Butylbenzene	5.9	500	1000	--	< ND	< ND	< ND	--	--
Tetrachloroethene	1.3	150	300	--	< ND	< ND	< ND	--	--
Toluene	0.7	500	1000	--	< ND	< ND	< ND	--	--
trans-1,2-Dichloroethene	0.19	500	1000	--	< ND	< ND	< ND	--	--
trans-1,3-Dichloropropene	--	--	--	--	< ND	< ND	< ND	--	--
Trichloroethene	0.47	200	400	--	**0.10**	< ND	**0.0043**	--	--
Trichlorofluoromethane	--	--	--	--	< ND	< ND	< ND	--	--
Vinyl chloride	0.02	27	2.0	--	< ND	< ND	< ND	--	--

Notes:
X - All soil results presented in parts per million (ppm)
< ND: Substance not identified above the minimum laboratory quantitation limit (non-detect)
-- Sample not analyzed for referenced parameter

Value exceeds Unrestricted Use SCOs
Value exceeds Commercial Use SCOs
Value exceeds Industrial Use SCOs

J: The target analyte concentration is below the quantitation limit, but above the method detection limit or estimated detection limit
D: Concentration of analyte was quantified from diluted analysis.

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Table 1 – 91 Leighton Avenue
Soil Sample Analytical Results

Soil Sample Analytical Results Detected Parameters:				Sample ID:	GP-02	GP-04	GPMW-05	GP-08	COMPOSITE-01	COMPOSITE-02
				Date Sampled:	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Depth:	4-6'	1-3'	9-11'	8-9'	GP-02 1-2', GP-08 2-4'	GP-07 2-6', GP-08 2-4'
EPA 8270-SVOCs	NYSDEC Part 375 SCOs[x]									
	Unrestricted Use	Commercial Soil	Industrial Soil		Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
1,2,4,5-Tetrachlorobenzene	--	--	--		--	--	--	--	< ND	< ND
1,2,4-Trichlorobenzene	--	--	--		--	--	--	--	< ND	< ND
1,2-Dichlorobenzene	--	--	--		--	--	--	--	< ND	< ND
1,3-Dichlorobenzene	--	--	--		--	--	--	--	< ND	< ND
1,4-Dichlorobenzene	--	--	--		--	--	--	--	< ND	< ND
2,4-Dinitrotoluene	--	--	--		--	--	--	--	< ND	< ND
2,6-Dinitrotoluene	--	--	--		--	--	--	--	< ND	< ND
2-Chloronaphthalene	--	--	--		--	--	--	--	< ND	< ND
2-Methylnaphthalene	--	--	--		--	--	--	--	**0.07 J**	**0.26**
2-Nitroaniline	--	--	--		--	--	--	--	< ND	< ND
3,3'-Dichlorobenzidine	--	--	--		--	--	--	--	< ND	< ND
3-Nitroaniline	--	--	--		--	--	--	--	< ND	< ND
4-Bromophenyl phenyl ether	--	--	--		--	--	--	--	< ND	< ND
4-Chloroaniline	--	--	--		--	--	--	--	< ND	< ND
4-Chlorophenyl phenyl ether	--	--	--		--	--	--	--	< ND	< ND
4-Nitroaniline	--	--	--		--	--	--	--	< ND	< ND
Acenaphthene	20	500	1,000		--	--	--	--	**0.130 J**	**0.380**
Acenaphthylene	100	500	1,000		--	--	--	--	< ND	**0.03 J**
Acetophenone	--	--	--		--	--	--	--	< ND	< ND
Anthracene	100	500	1,000		--	--	--	--	**0.55**	**0.97**
Benzo(a)anthracene	1.0	5.6	11		--	--	--	--	**0.75**	**1.60**
Benzo(a)pyrene	1.0	1.0	1.1		--	--	--	--	**0.66**	**1.60**
Benzo(b)fluoranthene	1.0	5.6	11		--	--	--	--	**0.91**	**1.90**
Benzo(ghi)perylene	100	500	1,000		--	--	--	--	**0.41**	**0.94**
Benzo(k)fluoranthene	0.8	56	110		--	--	--	--	**0.27**	**0.71**
Benzyl Alcohol	--	--	--		--	--	--	--	< ND	< ND
Biphenyl	--	--	--		--	--	--	--	< ND	**0.05 J**
Bis(2-chloroethoxy)methane	--	--	--		--	--	--	--	< ND	< ND
Bis(2-chloroethyl)ether	--	--	--		--	--	--	--	< ND	< ND
Bis(2-chloroisopropyl)ether	--	--	--		--	--	--	--	< ND	< ND
Bis(2-ethylhexyl)phthalate	--	--	--		--	--	--	--	< ND	< ND
Butyl benzyl phthalate	--	--	--		--	--	--	--	< ND	< ND
Carbazole	--	--	--		--	--	--	--	**0.27**	**0.35**
Chrysene	1.0	56	110		--	--	--	--	**0.78**	**1.60**
Dibenzo(a,h)anthracene	0.33	0.56	1.1		--	--	--	--	**0.10 J**	**0.22**
Dibenzofuran	--	--	--		--	--	--	--	**0.20**	**0.34**
Diethyl phthalate	--	--	--		--	--	--	--	< ND	< ND
Dimethyl phthalate	--	--	--		--	--	--	--	< ND	< ND
Di-n-butylphthalate	--	--	--		--	--	--	--	< ND	< ND
Di-n-octylphthalate	--	--	--		--	--	--	--	< ND	< ND
Fluoranthene	100	500	1,000		--	--	--	--	**2.20**	**3.70**
Fluorene	30	500	1,000		--	--	--	--	**0.20**	**0.42**
Hexachlorobenzene	--	--	--		--	--	--	--	< ND	< ND
Hexachlorobutadiene	--	--	--		--	--	--	--	< ND	< ND
Hexachlorocyclopentadiene	--	--	--		--	--	--	--	< ND	< ND
Hexachloroethane	--	--	--		--	--	--	--	< ND	< ND
Indeno(1,2,3-cd)pyrene	0.5	56	11		--	--	--	--	**0.47**	**1.00**
Isophorone	--	--	--		--	--	--	--	< ND	< ND
Naphthalene	12	1,000	--		--	--	--	--	**0.14 J**	**0.50**
NDPA/DPA	--	--	--		--	--	--	--	< ND	< ND
Nitrobenzene	--	--	--		--	--	--	--	< ND	< ND
n-Nitrosodi-n-propylamine	--	--	--		--	--	--	--	< ND	< ND
Phenanthrene	100	1,000	--		--	--	--	--	**2.30**	**3.60**
Pyrene	100	1,000	--		--	--	--	--	**1.60**	**3.00**

Notes:
X - All soil results presented in parts per million (ppm)
< ND: Substance not identified above the minimum laboratory quantitation limit (non-detect)
-- Sample not analyzed for referenced parameter

Value exceeds Unrestricted Use SCOs
Value exceeds Commercial Use SCOs
Value exceeds Industrial Use SCOs

J: The target analyte concentration is below the quantitation limit, but above the method detection limit or estimated detection limit
D: Concentration of analyte was quantified from diluted analysis.

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Table 1 – 91 Leighton Avenue
Soil Sample Analytical Results

Soil Sample Analytical Results Detected Parameters:				Sample ID:	GP-02	GP-04	GPMW-05	GP-08	COMPOSITE-01	COMPOSITE-02
				Date Sampled:	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023	3/3/2023
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Depth:	4-6'	1-3'	9-11'	8-9'	GP-02 1-2', GP-08 2-4'	GP-07 2-6', GP-08 2-4'
EPA 6010-RCRA Metals	**NYSDEC Part 375 SCOs[x]**									
	Unrestricted Use	**Commercial Soil**	**Industrial Soil**		**Result Q**	**Result Q**	**Result Q**	**Result Q**	**Result Q**	**Result Q**
Arsenic	13	16	25		--	--	--	--	**5.38**	**6.96**
Barium	350	10,000	1,000		--	--	--	--	**30.1**	**88.5**
Cadmium	2.5	60	5.0		--	--	--	--	**0.079 J**	**0.329 J**
Chromium	30	1,500	6,800		--	--	--	--	**10.3**	**37.1**
Lead	63	1,000	3,900		--	--	--	--	**16.0**	**130**
Mercury	0.18	2.8	5.7		--	--	--	--	**0.133**	**0.064 J**
Selenium	3.9	1,500	6,800		--	--	--	--	< ND	**0.798 J**
Silver	2.0	6,800	50		--	--	--	--	< ND	< ND
EPA 8082-PCBs	**NYSDEC Part 375 SCOs[x]**									
	Unrestricted Use	**Commercial Soil**	**Industrial Soil**		**Result Q**	**Result Q**	**Result Q**	**Result Q**	**Result Q**	**Result Q**
Aroclor 1016	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1221	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1232	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1242	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1248	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1254	0.1	1.0	25		< ND	--	--	< ND	--	--
Aroclor 1260	0.1	1.0	25		< ND	--	--	< ND	--	--

Notes:

X - All soil results presented in parts per million (ppm)

< ND: Substance not identified above the minimum laboratory quantitation limit (non-detect)

-- Sample not analyzed for referenced parameter

Value exceeds Unrestricted Use SCOs

Value exceeds Commercial Use SCOs

Value exceeds Industrial Use SCOs

J: The target analyte concentration is below the quantitation limit, but above the method detection limit or estimated detection limit

D: Concentration of analyte was quantified from diluted analysis.

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Table 2 – 91 Leighton Avenue
Soil and Groundwater Sample Analytical Results

Soil Sample Analytical Results Detected Parameters:	Sample ID:	GPMW-01		GPMW-05		GPMW-10	
	Date Sampled:	3/6/2023		3/6/2023		3/6/2023	
	Sample Matrix	Groundwater		Groundwater		Groundwater	
	GW Elevation:	91.51'		91.9'		93.6'	
EPA 8260-VOCs	NYSDEC TOGS 1.1.1[x] Class GA Groundwater	Result	Q	Result	Q	Result	Q
1,1,1-Trichloroethane	--	< ND		< ND		< ND	
1,1,2,2-Tetrachloroethane	--	< ND		< ND		< ND	
1,1,2-Trichloroethane	--	< ND		< ND		< ND	
1,1-Dichloroethane	--	< ND		< ND		< ND	
1,1-Dichloroethene	--	< ND		< ND		< ND	
1,2,4-Trichlorobenzene	--	< ND		< ND		< ND	
1,2,4-Trimethylbenzene	--	< ND		< ND		< ND	
1,2-Dibromo-3-chloropropane	--	< ND		< ND		< ND	
1,2-Dibromoethane	--	< ND		< ND		< ND	
1,2-Dichlorobenzene	--	< ND		< ND		< ND	
1,2-Dichloroethane	--	< ND		< ND		< ND	
1,2-Dichloropropane	--	< ND		< ND		< ND	
1,3,5-Trimethylbenzene	--	< ND		< ND		< ND	
1,3-Dichlorobenzene	--	< ND		< ND		< ND	
1,4-Dichlorobenzene	--	< ND		< ND		< ND	
2-Butanone	50	**23.0**		< ND		< ND	
2-Hexanone	--	< ND		< ND		< ND	
4-Methyl-2-pentanone	--	< ND		< ND		< ND	
Acetone	50	**54.0**		**2.10**	**J**	**2.90**	**J**
Benzene	1.0	< ND		**2.70**		< ND	
Bromodichloromethane	--	< ND		< ND		< ND	
Bromoform	--	< ND		< ND		< ND	
Bromomethane	--	< ND		< ND		< ND	
Carbon disulfide	--	< ND		< ND		< ND	
Carbon tetrachloride	--	< ND		< ND		< ND	
Chlorobenzene	--	< ND		< ND		< ND	
Chloroethane	--	< ND		< ND		< ND	
Chloroform	--	< ND		< ND		< ND	
Chloromethane	--	< ND		< ND		< ND	
cis-1,2-Dichloroethene	--	< ND		< ND		< ND	
cis-1,3-Dichloropropene	--	< ND		< ND		< ND	
Cyclohexane	--	< ND		< ND		< ND	
Dibromochloromethane	--	< ND		< ND		< ND	
Dichlorodifluoromethane	--	< ND		< ND		< ND	
Ethylbenzene	--	< ND		< ND		< ND	
Freon-113	--	< ND		< ND		< ND	
Isopropylbenzene	--	< ND		< ND		< ND	
Methyl Acetate	--	< ND		< ND		< ND	
Methyl cyclohexane	--	< ND		< ND		< ND	
Methyl tert butyl ether	--	< ND		< ND		< ND	
Methylene chloride	--	< ND		< ND		< ND	
Naphthalene	--	< ND		< ND		< ND	
n-Butylbenzene	--	< ND		< ND		< ND	
n-Propylbenzene	--	< ND		< ND		< ND	
o-Xylene	--	< ND		< ND		< ND	
p/m-Xylene	5.0	**2.90**	**J**	< ND		< ND	
p-Isopropyltoluene	--	< ND		< ND		< ND	
sec-Butylbenzene	--	< ND		< ND		< ND	
Styrene	--	< ND		< ND		< ND	
tert-Butylbenzene	--	< ND		< ND		< ND	
Tetrachloroethene	5.0	**5.60**		< ND		< ND	
Toluene	--	< ND		< ND		< ND	
trans-1,2-Dichloroethene	--	< ND		< ND		< ND	
trans-1,3-Dichloropropene	--	< ND		< ND		< ND	
Trichloroethene	5.0	**220**		**1.60**		**13.0**	
Trichlorofluoromethane	--	< ND		< ND		< ND	
Vinyl chloride	2.0	< ND		< ND		< ND	

Notes:
x - All groundwater results presented in parts per billion (ppb)
< ND: Substance not identified above the minimum laboratory quantitation limit (non-detect)
-- Sample not analyzed for referenced parameter
Value exceeds Class GA Groundwater Quality Standards
J: The target analyte concentration is below the quantitation limit, but above the method detection limit or estimated detection limit

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Table 2 – 91 Leighton Avenue
Soil and Groundwater Sample Analytical Results

Soil Sample Analytical Results Detected Parameters:	Sample ID:	GPMW-01		GPMW-05		GPMW-10	
	Date Sampled:	3/6/2023		3/6/2023		3/6/2023	
	Sample Matrix	Groundwater		Groundwater		Groundwater	
	GW Elevation:	91.51'		91.9'		93.6'	
EPA 6010-RCRA Metals	**NYSDEC TOGS 1.1.1[x] Class GA Groundwater**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Arsenic	25	--		**6.72**		**2.40**	
Barium	1,000	--		**379**		**118**	
Cadmium	5.0	--		**1.26**		**0.32**	
Chromium	50	--		**11.8**		**4.78**	
Lead	25	--		**66.0**		**4.21**	
Mercury	0.7	--		**0.14**	**J**	<	ND
Selenium	10	--		**14.7**		**4.96**	**J**
Silver	50	--		<	ND	<	ND
EPA 8082-PCBs	**NYSDEC TOGS 1.1.1[x] Class GA Groundwater**	**Result**	**Q**	**Result**	**Q**	**Result**	**Q**
Aroclor 1016	0.09	--		<	ND	<	ND
Aroclor 1221	0.09	--		<	ND	<	ND
Aroclor 1232	0.09	--		<	ND	<	ND
Aroclor 1242	0.09	--		<	ND	<	ND
Aroclor 1248	0.09	--		<	ND	<	ND
Aroclor 1254	0.09	--		<	ND	<	ND
Aroclor 1260	0.09	--		<	ND	<	ND

Notes:

x - All groundwater results presented in parts per billion (ppb)

< ND: Substance not identified above the minimum laboratory quantitation limit (non-detect)

-- Sample not analyzed for referenced parameter

Value exceeds Class GA Groundwater Quality Standards

J: The target analyte concentration is below the quantitation limit, but above the method detection limit or estimated detection limit

Photo No. 1 View of the site facing north

Photo No. 2 Western edge of the site facing north

Photo No. 3 View of the site facing southeast

Photo No. 4 View of the site facing southwest

Photo No. 5 Geoprobe drill rig

Photo No. 6 Typical soil progression

Photo No. 7 Suspected former floor drain

Photo No. 8 Suspect former floor drain inlet

Photo No. 9 Unknown feature connected to subsurface void space

Photo No. 10 Subsurface void space

Photo No. 11 Groundwater sampling setup

Lu Engineers ENVIRONMENTAL • TRANSPORTATION • CIVIL	PROJECT 536 Central Ave City of Rochester NY	BORING: GPMW-01 SHEET 1 OF 1 JOB # CHECKED BY: GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1	N/A	N/A	20%		~3" concrete rubble	0.0
2						tan mf SAND + mf GRAVEL	
3							
4							
5				80%		Similar Soils some silt	0.0
6							0.5
7							
8						Similar Soils, moist	0.3
9				75%		Similar Soils, moist, little mf GRAVEL	0.4
10							
11							
12							
13				100%		Similar Soils, some clay	0.0
14						Similar Soils, wet, some mf GRAVEL, groundwater @ 10.5'	
15						Refusal @ 14'	
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

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PROJECT	BORING: GP-02
536 Central Ave City of Rochester NY	SHEET 1 OF 1
	JOB #
	CHECKED BY: GLA

CONTRACTOR: Trec	BORING LOCATION: SEE PLAN		
DRILLER: Chris	GROUND SURFACE ELEVATION:	DATUM:	
JCL PERSONNEL: BGS, MGA	START DATE: 03/03/2023	END DATE: 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1	N/A	N/A	50%		~2" asphalt rubble/fill	0.0
2						dark gray mf sand + mf GRAVEL + light	
3						brown fine sand/silt	
4							
5				50%		dark + light brown mf sand, some clay	0.0
6							
7							
8							
9				40%		Similar soils	0.0
10							
11							
12							
13				50%		Similar soils, wet	0.0
14						14' refusal	
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

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PROJECT	536 Central Ave City of Rochester NY	**BORING:** GP-03 **SHEET** 1 **OF** 1 **JOB #** **CHECKED BY:** GLA

CONTRACTOR: Trec
BORING LOCATION: SEE PLAN
DRILLER: Chris
GROUND SURFACE ELEVATION: **DATUM:**
JCL PERSONNEL: BGS, MGA
START DATE: 03/03/2023 **END DATE:** 03/03/2023
TYPE OF DRILL RIG: 54LT Geoprobe
CASING SIZE AND TYPE:
OVERBURDEN SAMPLING METHOD: Macro Core
ROCK DRILLING METHOD: n/a

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			50%		~2" asphalt rubble	0.0
2						black mf sand, little silt, no odor	
3							
4							
5				90%		brown mf sand, some cm GRAVEL	0.0
6							
7							
8							
9				0%		NO RECOVERY, sleeve stuck in drill barrel	0.0
10							
11						refusal @ 11'	
12		N/A	N/A				
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

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PROJECT	536 Central Ave City of Rochester NY	**BORING:** GP-04 **SHEET** 1 **OF** 1 **JOB #** **CHECKED BY:** GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			50%		~6" Concrete, gasoline odor	21.4
2							
3						brown mf sand, trace slag, trace coal	0.7
4							
5				0%		Similar soils, synthetic odor	0.6
6							
7							
8							
9				80%		Similar soils, synthetic odor, wet, some GRAVEL	0.0
10						groundwater @ 11'	
11							
12		N/A	N/A				
13				40%		Similar soils, wet, no odor, no sheen	
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.

bgs: below ground surface TCR: total core recovery
ppm: parts per million

Lu Engineers ENVIRONMENTAL • TRANSPORTATION • CIVIL	PROJECT 536 Central Ave City of Rochester NY	BORING: GPMW-05 SHEET 1 OF 1 JOB # CHECKED BY: GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			60%		~3" concrete rubble	0.0
2						brown + black mf sand, slight odor	
3							
4							
5				60%		Similar soils, synthetic odor	0.0
6						Similar soils, cmf GRAVEL	0.4
7							
8						degraded petroleum, gray mf sand	0.0
9				60%		Similar soils, synthetic odor	0.0
10						brown mf sand, some brick fill, groundwater @11'	
11							
12		N/A	N/A			Refusal @ 12'	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.

bgs: below ground surface TCR: total core recovery
ppm: parts per million

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PROJECT	BORING: GP-06
536 Central Ave City of Rochester NY	SHEET 1 OF 1
	JOB #
	CHECKED BY: GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			30%		dark brown mf sand, some GRAVEL	0.0
2						light brown mf sand, slag, fill, no odor	
3						gray mf sand	
4							
5				50%		gray mf sand + silt, some clay, synthetic odor	0.0
6						groundwater @ 7'	
7							
8							
9				20%		similar soils, slag, fill	0.0
10						black mf sand, some cmf GRAVEL, synthetic odor	
11							
12		N/A	N/A			refusal @ 12'	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

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PROJECT	BORING: GP-07
536 Central Ave City of Rochester NY	SHEET 1 OF 1
	JOB #
	CHECKED BY: GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1							0.0
2	1			10%		black + gray cmf sand and GRAVEL, no odor	
3							
4							
5						brown mf loamy sand, no odor	0.0
6				20%			
7						gray mf sand + cmf GRAVEL, trace slag	
8							
9							0.0
10				20%		brown mf sand, wet, groundwater @ 11'	
11							
12		N/A	N/A			refusal @ 11.5'	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-07

Lu Engineers ENVIRONMENTAL • TRANSPORTATION • CIVIL	PROJECT 536 Central Ave City of Rochester NY	BORING: GP--08 SHEET 1 OF 1 JOB # CHECKED BY: GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1						black mf sand/silt, some slag, slight petroleum odor	0.0
2	1			40%			
3							
4							
5						Similar soils	0.0
6				80%		light brown mf sand and silt	
7						ground water @ 7', similar soils, wet.	
8							
9						similar soils, brown, wet	0.0
10				20%			
11						refusal @ 10'	
12		N/A	N/A				
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.

bgs: below ground surface TCR: total core recovery
ppm: parts per million

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CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			0%		NO RECOVERY	
2							
3							
4							
5				50%		brown mf sand, trace clay, some mf GRAVEL	0.0
6							
7							
8							
9				50%		similar soils, some clay	0.0
10							
11						Refusal @ 10.5'	
12		N/A	N/A				
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.

bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-09

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	**BORING:** GPMW-10	
536 Central Ave City of Rochester NY	**SHEET** 1 **OF** 1	
	JOB #	
	CHECKED BY: GLA	

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1			60%		brown mf sand and silt, some clay, no odor	0.0
2							
3						brown mf sand, some GRAVEL	
4							
5				70%		similar soils, some clay + silt, moist	0.0
6							
7							
8							
9				80%		similar soils	0.0
10							
11							
12		N/A	N/A				
13						similar soils, wet, clay groundwater @ 12' refusal @ 12.5'	
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GPMW-10

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	536 Central Ave City of Rochester NY	**BORING:** GP-11 **SHEET** 1 **OF** 1 **JOB #** **CHECKED BY:** GLA

CONTRACTOR: Trec	**BORING LOCATION:** SEE PLAN		
DRILLER: Chris	**GROUND SURFACE ELEVATION:**	**DATUM:**	
JCL PERSONNEL: BGS, MGA	**START DATE:** 03/03/2023	**END DATE:** 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1	1	N/A	N/A	40%		~3" concrete rubble, slag	0.0
2						brown mf sand, little silt, trace clays, no odor	
3							
4							
5				40%		similar soils, some mf GRAVELS	0.0
6							
7						Refusal @ 7'	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT: 536 Central Ave, City of Rochester NY	BORING: GP-12	
	SHEET 1 OF 1	
	JOB #	
	CHECKED BY: GLA	

CONTRACTOR: Trec	BORING LOCATION: SEE PLAN		
DRILLER: Chris	GROUND SURFACE ELEVATION:	DATUM:	
JCL PERSONNEL: BGS, MGA	START DATE: 03/03/2023	END DATE: 03/03/2023	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE:		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	PID (ppm)
1						brown mf sand, some silt, moist, no odor	0.0
2				20%			
3							
4							
5						similar soils, mf GRAVEL	0.0
6				50%			
7							
8							
9						similar soils, moist	0.0
10				40%			
11							
12		N/A	N/A				
13						refusal @ 12'	
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES
1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-12

Low Flow Groundwater Sampling Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name 91 Leighton Ave
Location ID 3rd Well Sample
Activity Time 11:50

Field Sample ID GIMW-01
Sample Time 16:20

Job # 50527-01
Sampling Event # __
Date 03/06/2023

SAMPLING NOTES

Initial Depth to Water 5.73 feet
Final Depth to Water 8.61 feet
Screen Length 5 feet
Total Volume Purged _____ gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point North
Well Depth 14.44 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 1"
Well Integrity:
Cap ✓
Casing X
Locked _____
Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11:50	5.73	-	Purged		Dry	-			
16:00	6.16		6.64	7.49	11.63	—	1.05	-13	
16:10	~~5.97~~		~~7.49~~	7.49	9.41	—	1.05	-47	
			5.77						
16:20	8.61		6.28	7.45	9.86	—	0.915	-7	

Purge Observations: _____
Purge Water Containerized: No

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic Geopump
Type of Tubing: HDPE
Type of Water Quality Meter: YSI Pro Plus Quatro
Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs		✓
RCRA Metals		
PCBs		
Pesticides		
SVOCs		

LOCATION NOTES

Purged dry prior to sampling

Low Flow Groundwater Sampling Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name 91 Leighton Ave
Location ID 2nd Well Sample
Activity Time 11:20

Field Sample ID GPMW-05
Sample Time

Job # 50527-01
Sampling Event # __
Date 03/06/2023

SAMPLING NOTES

Initial Depth to Water 5.14 feet
Final Depth to Water 5.16 feet
Screen Length 5 feet
Total Volume Purged ~2.5 gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]

Measurement Point North
Well Depth 11.30 feet
Pump Intake Depth
PID Well Head

Well Diameter 1"
Well Integrity:
Cap ✓
Casing
Locked X
Collar

Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11:20	5.14	-	Purged Dry -						
15:20	5.14		6.59	7.51	11.00	—	2.49	-54	
15:25	5.15		6.40	7.57	10.67	—	2.39	-32	
15:35	5.16		6.87	7.54	10.15	—	2.51	-31	

Purge Observations:
Purge Water Containerized: No

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic Geopump
Type of Tubing: HDPE
Type of Water Quality Meter: YSI Pro Plus Quatro

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs		
RCRA Metals		
PCBs		
Pesticides		
SVOCs		

LOCATION NOTES

~~Purged~~ dry prior to Sampling
Purged

Low Flow Groundwater Sampling Field Record

Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name 91 Leighton Ave
Location ID 1st WPA Sample
Activity Time 11:00

Field Sample ID GPMW-10
Sample Time 15:05

Job # 50527-01
Sampling Event # __
Date 03/06/2023

SAMPLING NOTES

Initial Depth to Water 3.61 feet
Final Depth to Water Dry feet
Screen Length 5 feet
Total Volume Purged _____ gallons
[purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter]
Volume of Water in casing – 2" diameter = 0.163 gallons per foot of depth, 4" diameter = 0.653 gallons per foot of depth

Measurement Point North
Well Depth 12.32 feet
Pump Intake Depth _____
PID Well Head _____

Well Diameter 1"
Well Integrity:
Cap ✓
Casing _____
Locked X
Collar _____

PURGE DATA

Time	Depth to Water (ft)	Purge Rate (ml/min)	Temp. (deg. C)	pH (units)	Dissolved O2 (mg/L)	Turbidity (NTU)	Cond. (mS/cm)	ORP (mV)	Comments
11:00	3.61	- Purged	Dry	-					
14:30	4.15		8.41	7.66	11.61	—	2.81	53	
15:00	12.32		5.87	7.64	11.17	749	2.88	8	

Purge Observations: Slightly turbid
Purge Water Containerized: No

EQUIPMENT DOCUMENTATION

Type of Pump: Peristaltic Geopump
Type of Tubing: HDPE
Type of Water Quality Meter: YSI Pro Plus Quatro

Calibrated: Yes

ANALYTICAL PARAMETERS

Parameter	Volumes	Sample Collected
VOCs	✓	
RCRA Metals	✓	
PCBs	✓	
Pesticides	X	
SVOCs	X	

LOCATION NOTES

Purged dry prior to sampling

ANALYTICAL REPORT

Lab Number:	L2311903
Client:	Lu Engineers 280 E Broad St. Suite 170 Rochester, NY 14604
ATTN:	Ben Seifert
Phone:	(585) 385-7417
Project Name:	LEIGHTON AVENUE
Project Number:	50527-01
Report Date:	03/14/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2311903-01	GP-02	SOIL	Not Specified	03/03/23 10:30	03/07/23
L2311903-02	GP-04	SOIL	Not Specified	03/03/23 11:15	03/07/23
L2311903-03	GPMW-05	SOIL	Not Specified	03/03/23 11:45	03/07/23
L2311903-04	GP-08	SOIL	Not Specified	03/03/23 13:05	03/07/23
L2311903-05	COMPOSITE-01	SOIL	Not Specified	03/03/23 10:45	03/07/23
L2311903-06	COMPOSITE-02	SOIL	Not Specified	03/03/23 13:10	03/07/23
L2311903-07	GPMW-01	WATER	Not Specified	03/06/23 16:20	03/07/23
L2311903-08	GPMW-05	WATER	Not Specified	03/06/23 15:35	03/07/23
L2311903-09	GPMW-10	WATER	Not Specified	03/06/23 15:00	03/07/23
L2311903-10	TRIP BLANK	WATER	Not Specified	03/03/23 00:00	03/07/23

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2311903-10: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. This sample was not analyzed.

Volatile Organics

L2311903-02, -03 and -04: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L2311903-07D: The pH was greater than two; however, the sample was analyzed within the method required holding time.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 03/14/23

ORGANICS

VOLATILES

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-02 D2 Date Collected: 03/03/23 11:15
Client ID: GP-04 Date Received: 03/07/23
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/13/23 18:47
Analyst: AJK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	600	270	2
1,1-Dichloroethane	ND		ug/kg	120	17.	2
Chloroform	ND		ug/kg	180	17.	2
Carbon tetrachloride	ND		ug/kg	120	27.	2
1,2-Dichloropropane	ND		ug/kg	120	15.	2
Dibromochloromethane	ND		ug/kg	120	17.	2
1,1,2-Trichloroethane	ND		ug/kg	120	32.	2
Tetrachloroethene	ND		ug/kg	60	23.	2
Chlorobenzene	ND		ug/kg	60	15.	2
Trichlorofluoromethane	ND		ug/kg	480	83.	2
1,2-Dichloroethane	ND		ug/kg	120	31.	2
1,1,1-Trichloroethane	ND		ug/kg	60	20.	2
Bromodichloromethane	ND		ug/kg	60	13.	2
trans-1,3-Dichloropropene	ND		ug/kg	120	33.	2
cis-1,3-Dichloropropene	ND		ug/kg	60	19.	2
Bromoform	ND		ug/kg	480	29.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	60	20.	2
Benzene	ND		ug/kg	60	20.	2
Toluene	ND		ug/kg	120	65.	2
Ethylbenzene	180		ug/kg	120	17.	2
Chloromethane	ND		ug/kg	480	110	2
Bromomethane	ND		ug/kg	240	69.	2
Vinyl chloride	ND		ug/kg	120	40.	2
Chloroethane	ND		ug/kg	240	54.	2
1,1-Dichloroethene	ND		ug/kg	120	28.	2
trans-1,2-Dichloroethene	ND		ug/kg	180	16.	2
Trichloroethene	100		ug/kg	60	16.	2
1,2-Dichlorobenzene	ND		ug/kg	240	17.	2

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-02 D2 Date Collected: 03/03/23 11:15

Client ID: GP-04 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	240	18.	2
1,4-Dichlorobenzene	ND		ug/kg	240	20.	2
Methyl tert butyl ether	ND		ug/kg	240	24.	2
p/m-Xylene	1900		ug/kg	240	67.	2
o-Xylene	2400		ug/kg	120	35.	2
cis-1,2-Dichloroethene	ND		ug/kg	120	21.	2
Styrene	ND		ug/kg	120	23.	2
Dichlorodifluoromethane	ND		ug/kg	1200	110	2
Acetone	ND		ug/kg	1200	580	2
Carbon disulfide	ND		ug/kg	1200	540	2
2-Butanone	ND		ug/kg	1200	260	2
4-Methyl-2-pentanone	ND		ug/kg	1200	150	2
2-Hexanone	ND		ug/kg	1200	140	2
1,2-Dibromoethane	ND		ug/kg	120	33.	2
n-Butylbenzene	2300		ug/kg	120	20.	2
sec-Butylbenzene	580		ug/kg	120	17.	2
tert-Butylbenzene	ND		ug/kg	240	14.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	120	2
Isopropylbenzene	350		ug/kg	120	13.	2
p-Isopropyltoluene	410		ug/kg	120	13.	2
Naphthalene	17000		ug/kg	480	78.	2
n-Propylbenzene	1900		ug/kg	120	20.	2
1,2,4-Trichlorobenzene	ND		ug/kg	240	32.	2
1,3,5-Trimethylbenzene	12000		ug/kg	240	23.	2
1,2,4-Trimethylbenzene	50000	E	ug/kg	240	40.	2
Methyl Acetate	140	J	ug/kg	480	110	2
Cyclohexane	ND		ug/kg	1200	65.	2
Freon-113	ND		ug/kg	480	83.	2
Methyl cyclohexane	ND		ug/kg	480	72.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	92		70-130

Project Name: LEIGHTON AVENUE
Lab Number: L2311903
Project Number: 50527-01
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-02 D
Client ID: GP-04
Sample Location: Not Specified

Date Collected: 03/03/23 11:15
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/10/23 22:26
Analyst: AJK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	53000		ug/kg	1200	200	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	88		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-03
Client ID: GPMW-05
Sample Location: Not Specified

Date Collected: 03/03/23 11:45
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/10/23 22:52
Analyst: AJK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.22	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	0.30	J	ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	0.27	J	ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-03 Date Collected: 03/03/23 11:45

Client ID: GPMW-05 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	1.4	J	ug/kg	2.3	0.64	1
o-Xylene	1.6		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Styrene	ND		ug/kg	1.2	0.22	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	120		ug/kg	12	5.5	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	19		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.12	1
Naphthalene	1.0	J	ug/kg	4.6	0.75	1
n-Propylbenzene	0.38	J	ug/kg	1.2	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	1.4	J	ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	6.2		ug/kg	2.3	0.38	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	12	0.63	1
Freon-113	ND		ug/kg	4.6	0.80	1
Methyl cyclohexane	ND		ug/kg	4.6	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	89		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-04
Client ID: GP-08
Sample Location: Not Specified

Date Collected: 03/03/23 13:05
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 03/10/23 23:18
Analyst: AJK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	0.47	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	4.3		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-04 Date Collected: 03/03/23 13:05

Client ID: GP-08 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	1.2	J	ug/kg	2.2	0.62	1
o-Xylene	9.2		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	6.3	J	ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
n-Butylbenzene	0.37	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.20	J	ug/kg	1.1	0.12	1
Naphthalene	0.78	J	ug/kg	4.4	0.72	1
n-Propylbenzene	0.78	J	ug/kg	1.1	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	11		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	7.2		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	87		70-130

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-07 D
Client ID: GPMW-01
Sample Location: Not Specified

Date Collected: 03/06/23 16:20
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/10/23 08:49
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	5.6		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Trichloroethene	220		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-07 D Date Collected: 03/06/23 16:20

Client ID: GPMW-01 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	2.9	J	ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	54		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	23		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
Methyl Acetate	ND		ug/l	4.0	0.47	2
Cyclohexane	ND		ug/l	20	0.54	2
Freon-113	ND		ug/l	5.0	1.4	2
Methyl cyclohexane	ND		ug/l	20	0.79	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-08
Client ID: GPMW-05
Sample Location: Not Specified

Date Collected: 03/06/23 15:35
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/10/23 09:12
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	2.7		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.21	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-08 Date Collected: 03/06/23 15:35

Client ID: GPMW-05 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-09
Client ID: GPMW-10
Sample Location: Not Specified

Date Collected: 03/06/23 15:00
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 03/10/23 09:35
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	13		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-09 Date Collected: 03/06/23 15:00

Client ID: GPMW-10 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 08:25
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1753983-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 08:25
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1753983-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 08:25
Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-09 Batch: WG1753983-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1754376-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1754376-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	0.19	J	ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	2.0	J	ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04 Batch: WG1754376-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	85		70-130

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1754379-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1754379-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
1,2-Dibromoethane	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	9.4	J	ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	98	J	ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/10/23 18:05
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1754379-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	85		70-130

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/13/23 16:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1754409-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/13/23 16:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1754409-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
1,2-Dibromoethane	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 03/13/23 16:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1754409-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1753983-3 WG1753983-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	100		100		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	85		89		63-130	5		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	100		110		70-130	10		20
Chlorobenzene	100		110		75-130	10		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	92		97		67-130	5		20
trans-1,3-Dichloropropene	88		92		70-130	4		20
cis-1,3-Dichloropropene	89		92		70-130	3		20
Bromoform	72		76		54-136	5		20
1,1,2,2-Tetrachloroethane	89		95		67-130	7		20
Benzene	100		110		70-130	10		20
Toluene	100		110		70-130	10		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	91		96		39-139	5		20
Vinyl chloride	120		130		55-140	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1753983-3 WG1753983-4								
Chloroethane	120		130		55-138	8		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		110		70-130	10		20
1,2-Dichlorobenzene	96		100		70-130	4		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	98		100		70-130	2		20
Methyl tert butyl ether	89		95		63-130	7		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	105		110		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	81		89		58-148	9		20
Carbon disulfide	110		120		51-130	9		20
2-Butanone	76		88		63-138	15		20
4-Methyl-2-pentanone	77		86		59-130	11		20
2-Hexanone	80		86		57-130	7		20
1,2-Dibromoethane	92		96		70-130	4		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	67		73		41-144	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-09 Batch: WG1753983-3 WG1753983-4								
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	73		84		70-130	14		20
n-Propylbenzene	100		110		69-130	10		20
1,2,4-Trichlorobenzene	85		93		70-130	9		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	98		100		70-130	2		20
Methyl Acetate	95		97		70-130	2		20
Cyclohexane	120		120		70-130	0		20
Freon-113	120		130		70-130	8		20
Methyl cyclohexane	110		120		70-130	9		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1754376-3 WG1754376-4								
Methylene chloride	80		80		70-130	0		30
1,1-Dichloroethane	99		100		70-130	1		30
Chloroform	84		83		70-130	1		30
Carbon tetrachloride	76		76		70-130	0		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	80		79		70-130	1		30
1,1,2-Trichloroethane	99		99		70-130	0		30
Tetrachloroethene	79		78		70-130	1		30
Chlorobenzene	86		86		70-130	0		30
Trichlorofluoromethane	83		82		70-139	1		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	82		82		70-130	0		30
Bromodichloromethane	84		84		70-130	0		30
trans-1,3-Dichloropropene	101		101		70-130	0		30
cis-1,3-Dichloropropene	92		91		70-130	1		30
Bromoform	80		78		70-130	3		30
1,1,2,2-Tetrachloroethane	106		97		70-130	9		30
Benzene	92		91		70-130	1		30
Toluene	91		92		70-130	1		30
Ethylbenzene	94		95		70-130	1		30
Chloromethane	**134**	Q	**135**	Q	52-130	1		30
Bromomethane	95		93		57-147	2		30
Vinyl chloride	109		111		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1754376-3 WG1754376-4								
Chloroethane	101		101		50-151	0		30
1,1-Dichloroethene	86		85		65-135	1		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	86		89		70-130	3		30
1,2-Dichlorobenzene	84		83		70-130	1		30
1,3-Dichlorobenzene	85		84		70-130	1		30
1,4-Dichlorobenzene	84		83		70-130	1		30
Methyl tert butyl ether	96		94		66-130	2		30
p/m-Xylene	91		91		70-130	0		30
o-Xylene	93		94		70-130	1		30
cis-1,2-Dichloroethene	81		81		70-130	0		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	105		103		30-146	2		30
Acetone	130		123		54-140	6		30
Carbon disulfide	**140**	Q	**140**	Q	59-130	0		30
2-Butanone	123		114		70-130	8		30
4-Methyl-2-pentanone	118		112		70-130	5		30
2-Hexanone	**135**	Q	128		70-130	5		30
1,2-Dibromoethane	88		87		70-130	1		30
n-Butylbenzene	108		107		70-130	1		30
sec-Butylbenzene	102		100		70-130	2		30
tert-Butylbenzene	93		92		70-130	1		30
1,2-Dibromo-3-chloropropane	74		72		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04 Batch: WG1754376-3 WG1754376-4								
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	95		94		70-130	1		30
Naphthalene	87		84		70-130	4		30
n-Propylbenzene	108		108		70-130	0		30
1,2,4-Trichlorobenzene	80		78		70-130	3		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	96		94		70-130	2		30
Methyl Acetate	118		112		51-146	5		30
Cyclohexane	117		117		59-142	0		30
Freon-113	87		86		50-139	1		30
Methyl cyclohexane	93		92		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	109		111		70-130
4-Bromofluorobenzene	116		115		70-130
Dibromofluoromethane	88		87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1754379-3 WG1754379-4								
Methylene chloride	80		80		70-130	0		30
1,1-Dichloroethane	99		100		70-130	1		30
Chloroform	84		83		70-130	1		30
Carbon tetrachloride	76		76		70-130	0		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	80		79		70-130	1		30
1,1,2-Trichloroethane	99		99		70-130	0		30
Tetrachloroethene	79		78		70-130	1		30
Chlorobenzene	86		86		70-130	0		30
Trichlorofluoromethane	83		82		70-139	1		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	82		82		70-130	0		30
Bromodichloromethane	84		84		70-130	0		30
trans-1,3-Dichloropropene	101		101		70-130	0		30
cis-1,3-Dichloropropene	92		91		70-130	1		30
Bromoform	80		78		70-130	3		30
1,1,2,2-Tetrachloroethane	106		97		70-130	9		30
Benzene	92		91		70-130	1		30
Toluene	91		92		70-130	1		30
Ethylbenzene	94		95		70-130	1		30
Chloromethane	**134**	Q	**135**	Q	52-130	1		30
Bromomethane	95		93		57-147	2		30
Vinyl chloride	109		111		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1754379-3 WG1754379-4								
Chloroethane	101		101		50-151	0		30
1,1-Dichloroethene	86		85		65-135	1		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	86		89		70-130	3		30
1,2-Dichlorobenzene	84		83		70-130	1		30
1,3-Dichlorobenzene	85		84		70-130	1		30
1,4-Dichlorobenzene	84		83		70-130	1		30
Methyl tert butyl ether	96		94		66-130	2		30
p/m-Xylene	91		91		70-130	0		30
o-Xylene	93		94		70-130	1		30
cis-1,2-Dichloroethene	81		81		70-130	0		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	105		103		30-146	2		30
Acetone	130		123		54-140	6		30
Carbon disulfide	**140**	Q	**140**	Q	59-130	0		30
2-Butanone	123		114		70-130	8		30
4-Methyl-2-pentanone	118		112		70-130	5		30
2-Hexanone	**135**	Q	128		70-130	5		30
1,2-Dibromoethane	88		87		70-130	1		30
n-Butylbenzene	108		107		70-130	1		30
sec-Butylbenzene	102		100		70-130	2		30
tert-Butylbenzene	93		92		70-130	1		30
1,2-Dibromo-3-chloropropane	74		72		68-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1754379-3 WG1754379-4								
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	95		94		70-130	1		30
Naphthalene	87		84		70-130	4		30
n-Propylbenzene	108		108		70-130	0		30
1,2,4-Trichlorobenzene	80		78		70-130	3		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	96		94		70-130	2		30
Methyl Acetate	118		112		51-146	5		30
Cyclohexane	117		117		59-142	0		30
Freon-113	87		86		50-139	1		30
Methyl cyclohexane	93		92		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	109		110		70-130
4-Bromofluorobenzene	116		115		70-130
Dibromofluoromethane	88		88		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1754409-3 WG1754409-4								
Methylene chloride	86		83		70-130	4		30
1,1-Dichloroethane	104		101		70-130	3		30
Chloroform	87		85		70-130	2		30
Carbon tetrachloride	93		90		70-130	3		30
1,2-Dichloropropane	101		99		70-130	2		30
Dibromochloromethane	87		85		70-130	2		30
1,1,2-Trichloroethane	84		81		70-130	4		30
Tetrachloroethene	99		97		70-130	2		30
Chlorobenzene	90		88		70-130	2		30
Trichlorofluoromethane	101		106		70-139	5		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	92		90		70-130	2		30
Bromodichloromethane	86		84		70-130	2		30
trans-1,3-Dichloropropene	89		87		70-130	2		30
cis-1,3-Dichloropropene	87		84		70-130	4		30
Bromoform	82		83		70-130	1		30
1,1,2,2-Tetrachloroethane	82		80		70-130	2		30
Benzene	90		88		70-130	2		30
Toluene	90		89		70-130	1		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	121		122		52-130	1		30
Bromomethane	101		97		57-147	4		30
Vinyl chloride	113		110		67-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1754409-3 WG1754409-4								
Chloroethane	108		105		50-151	3		30
1,1-Dichloroethene	96		95		65-135	1		30
trans-1,2-Dichloroethene	91		89		70-130	2		30
Trichloroethene	90		87		70-130	3		30
1,2-Dichlorobenzene	88		87		70-130	1		30
1,3-Dichlorobenzene	89		88		70-130	1		30
1,4-Dichlorobenzene	89		88		70-130	1		30
Methyl tert butyl ether	90		87		66-130	3		30
p/m-Xylene	93		90		70-130	3		30
o-Xylene	93		92		70-130	1		30
cis-1,2-Dichloroethene	88		85		70-130	3		30
Styrene	92		91		70-130	1		30
Dichlorodifluoromethane	104		102		30-146	2		30
Acetone	129		121		54-140	6		30
Carbon disulfide	**157**	Q	**152**	Q	59-130	3		30
2-Butanone	117		104		70-130	12		30
4-Methyl-2-pentanone	97		92		70-130	5		30
2-Hexanone	109		104		70-130	5		30
1,2-Dibromoethane	86		84		70-130	2		30
n-Butylbenzene	96		95		70-130	1		30
sec-Butylbenzene	92		92		70-130	0		30
tert-Butylbenzene	90		89		70-130	1		30
1,2-Dibromo-3-chloropropane	80		77		68-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1754409-3 WG1754409-4								
Isopropylbenzene	88		88		70-130	0		30
p-Isopropyltoluene	92		92		70-130	0		30
Naphthalene	93		91		70-130	2		30
n-Propylbenzene	92		92		70-130	0		30
1,2,4-Trichlorobenzene	93		92		70-130	1		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	88		87		70-130	1		30
Methyl Acetate	115		110		51-146	4		30
Cyclohexane	126		122		59-142	3		30
Freon-113	103		101		50-139	2		30
Methyl cyclohexane	95		93		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	92		93		70-130

SEMIVOLATILES

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-05
Client ID: COMPOSITE-01
Sample Location: Not Specified

Date Collected: 03/03/23 10:45
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 03/10/23 05:43
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 03/09/23 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	2200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	140	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-05 Date Collected: 03/03/23 10:45

Client ID: COMPOSITE-01 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	750		ug/kg	120	22.	1
Benzo(a)pyrene	660		ug/kg	160	48.	1
Benzo(b)fluoranthene	910		ug/kg	120	33.	1
Benzo(k)fluoranthene	270		ug/kg	120	32.	1
Chrysene	780		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	550		ug/kg	120	39.	1
Benzo(ghi)perylene	410		ug/kg	160	23.	1
Fluorene	200		ug/kg	200	19.	1
Phenanthrene	2300		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	97	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	470		ug/kg	160	28.	1
Pyrene	1600		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	26.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	200		ug/kg	200	19.	1
2-Methylnaphthalene	70	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	270		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	40		18-120

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-06
Client ID: COMPOSITE-02
Sample Location: Not Specified

Date Collected: 03/03/23 13:10
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 03/10/23 07:17
Analyst: CMM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 03/09/23 10:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	380		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	3700		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	500		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-06 Date Collected: 03/03/23 13:10

Client ID: COMPOSITE-02 Date Received: 03/07/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1600		ug/kg	150	46.	1
Benzo(b)fluoranthene	1900		ug/kg	110	32.	1
Benzo(k)fluoranthene	710		ug/kg	110	30.	1
Chrysene	1600		ug/kg	110	20.	1
Acenaphthylene	29	J	ug/kg	150	29.	1
Anthracene	970		ug/kg	110	37.	1
Benzo(ghi)perylene	940		ug/kg	150	22.	1
Fluorene	420		ug/kg	190	18.	1
Phenanthrene	3600		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	220		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	150	26.	1
Pyrene	3000		ug/kg	110	19.	1
Biphenyl	53	J	ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	340		ug/kg	190	18.	1
2-Methylnaphthalene	260		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	350		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	45		10-136
4-Terphenyl-d14	44		18-120

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/09/23 01:03
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/08/23 13:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1752440-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/09/23 01:03
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/08/23 13:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1752440-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 03/09/23 01:03
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/08/23 13:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1752440-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	48		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	50		10-136
4-Terphenyl-d14	53		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1752440-2 WG1752440-3								
Acenaphthene	57		66		31-137	15		50
1,2,4-Trichlorobenzene	60		67		38-107	11		50
Hexachlorobenzene	60		68		40-140	13		50
Bis(2-chloroethyl)ether	58		66		40-140	13		50
2-Chloronaphthalene	61		68		40-140	11		50
1,2-Dichlorobenzene	55		64		40-140	15		50
1,3-Dichlorobenzene	57		64		40-140	12		50
1,4-Dichlorobenzene	56		64		28-104	13		50
3,3'-Dichlorobenzidine	**37**	Q	42		40-140	13		50
2,4-Dinitrotoluene	60		68		40-132	13		50
2,6-Dinitrotoluene	60		65		40-140	8		50
Fluoranthene	58		67		40-140	14		50
4-Chlorophenyl phenyl ether	59		66		40-140	11		50
4-Bromophenyl phenyl ether	58		64		40-140	10		50
Bis(2-chloroisopropyl)ether	44		51		40-140	15		50
Bis(2-chloroethoxy)methane	59		65		40-117	10		50
Hexachlorobutadiene	56		62		40-140	10		50
Hexachlorocyclopentadiene	62		68		40-140	9		50
Hexachloroethane	50		57		40-140	13		50
Isophorone	56		62		40-140	10		50
Naphthalene	60		66		40-140	10		50
Nitrobenzene	56		64		40-140	13		50
NDPA/DPA	63		70		36-157	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1752440-2 WG1752440-3								
n-Nitrosodi-n-propylamine	56		65		32-121	15		50
Bis(2-ethylhexyl)phthalate	59		70		40-140	17		50
Butyl benzyl phthalate	62		69		40-140	11		50
Di-n-butylphthalate	61		70		40-140	14		50
Di-n-octylphthalate	58		69		40-140	17		50
Diethyl phthalate	59		68		40-140	14		50
Dimethyl phthalate	60		69		40-140	14		50
Benzo(a)anthracene	55		65		40-140	17		50
Benzo(a)pyrene	54		65		40-140	18		50
Benzo(b)fluoranthene	51		62		40-140	19		50
Benzo(k)fluoranthene	56		64		40-140	13		50
Chrysene	54		64		40-140	17		50
Acenaphthylene	64		71		40-140	10		50
Anthracene	59		68		40-140	14		50
Benzo(ghi)perylene	53		64		40-140	19		50
Fluorene	58		67		40-140	14		50
Phenanthrene	57		66		40-140	15		50
Dibenzo(a,h)anthracene	56		66		40-140	16		50
Indeno(1,2,3-cd)pyrene	62		71		40-140	14		50
Pyrene	59		67		35-142	13		50
Biphenyl	61		69		37-127	12		50
4-Chloroaniline	50		54		40-140	8		50
2-Nitroaniline	61		70		47-134	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1752440-2 WG1752440-3								
3-Nitroaniline	40		48		26-129	18		50
4-Nitroaniline	64		71		41-125	10		50
Dibenzofuran	60		67		40-140	11		50
2-Methylnaphthalene	59		65		40-140	10		50
1,2,4,5-Tetrachlorobenzene	59		66		40-117	11		50
Acetophenone	65		72		14-144	10		50
Benzyl Alcohol	61		70		40-140	14		50
Carbazole	60		68		54-128	13		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		69		25-120
Phenol-d6	58		67		10-120
Nitrobenzene-d5	56		62		23-120
2-Fluorobiphenyl	60		68		30-120
2,4,6-Tribromophenol	60		69		10-136
4-Terphenyl-d14	60		67		18-120

PCBS

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-01
Client ID: GP-02
Sample Location: Not Specified

Date Collected: 03/03/23 10:30
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/10/23 09:56
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/09/23 10:31
Cleanup Method: EPA 3665A
Cleanup Date: 03/09/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	3.33	1	A
Aroclor 1221	ND		ug/kg	37.5	3.76	1	A
Aroclor 1232	ND		ug/kg	37.5	7.95	1	A
Aroclor 1242	ND		ug/kg	37.5	5.06	1	A
Aroclor 1248	ND		ug/kg	37.5	5.62	1	A
Aroclor 1254	ND		ug/kg	37.5	4.10	1	A
Aroclor 1260	ND		ug/kg	37.5	6.93	1	A
Aroclor 1262	ND		ug/kg	37.5	4.76	1	A
Aroclor 1268	ND		ug/kg	37.5	3.88	1	A
PCBs, Total	ND		ug/kg	37.5	3.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-04
Client ID: GP-08
Sample Location: Not Specified

Date Collected: 03/03/23 13:05
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/10/23 09:46
Analyst: MEO
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/09/23 10:31
Cleanup Method: EPA 3665A
Cleanup Date: 03/09/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/10/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	3.26	1	A
Aroclor 1221	ND		ug/kg	36.7	3.67	1	A
Aroclor 1232	ND		ug/kg	36.7	7.77	1	A
Aroclor 1242	ND		ug/kg	36.7	4.94	1	A
Aroclor 1248	ND		ug/kg	36.7	5.50	1	A
Aroclor 1254	ND		ug/kg	36.7	4.01	1	A
Aroclor 1260	ND		ug/kg	36.7	6.78	1	A
Aroclor 1262	ND		ug/kg	36.7	4.66	1	A
Aroclor 1268	ND		ug/kg	36.7	3.80	1	A
PCBs, Total	ND		ug/kg	36.7	3.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-08
Client ID: GPMW-05
Sample Location: Not Specified

Date Collected: 03/06/23 15:35
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/13/23 10:18
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 03/13/23 00:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.036	0.031	1	A
Aroclor 1221	ND		ug/l	0.036	0.031	1	A
Aroclor 1232	ND		ug/l	0.036	0.031	1	A
Aroclor 1242	ND		ug/l	0.036	0.031	1	A
Aroclor 1248	ND		ug/l	0.036	0.031	1	A
Aroclor 1254	ND		ug/l	0.036	0.031	1	A
Aroclor 1260	ND		ug/l	0.036	0.031	1	A
Aroclor 1262	ND		ug/l	0.036	0.031	1	A
Aroclor 1268	ND		ug/l	0.036	0.031	1	A
PCBs, Total	ND		ug/l	0.036	0.031	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-09
Client ID: GPMW-10
Sample Location: Not Specified

Date Collected: 03/06/23 15:00
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/13/23 10:27
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 03/13/23 00:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.036	0.031	1	A
Aroclor 1221	ND		ug/l	0.036	0.031	1	A
Aroclor 1232	ND		ug/l	0.036	0.031	1	A
Aroclor 1242	ND		ug/l	0.036	0.031	1	A
Aroclor 1248	ND		ug/l	0.036	0.031	1	A
Aroclor 1254	ND		ug/l	0.036	0.031	1	A
Aroclor 1260	ND		ug/l	0.036	0.031	1	A
Aroclor 1262	ND		ug/l	0.036	0.031	1	A
Aroclor 1268	ND		ug/l	0.036	0.031	1	A
PCBs, Total	ND		ug/l	0.036	0.031	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/09/23 18:15
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 03/09/23 05:18
Cleanup Method: EPA 3665A
Cleanup Date: 03/09/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/09/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04 Batch: WG1752629-1						
Aroclor 1016	ND		ug/kg	32.2	2.86	A
Aroclor 1221	ND		ug/kg	32.2	3.22	A
Aroclor 1232	ND		ug/kg	32.2	6.82	A
Aroclor 1242	ND		ug/kg	32.2	4.34	A
Aroclor 1248	ND		ug/kg	32.2	4.83	A
Aroclor 1254	ND		ug/kg	32.2	3.52	A
Aroclor 1260	ND		ug/kg	32.2	5.94	A
Aroclor 1262	ND		ug/kg	32.2	4.09	A
Aroclor 1268	ND		ug/kg	32.2	3.33	A
PCBs, Total	ND		ug/kg	32.2	2.86	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/13/23 09:50
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 03/13/23 00:06
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/23
Cleanup Method: EPA 3660B
Cleanup Date: 03/13/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08-09 Batch: WG1753868-1						
Aroclor 1016	ND		ug/l	0.036	0.031	A
Aroclor 1221	ND		ug/l	0.036	0.031	A
Aroclor 1232	ND		ug/l	0.036	0.031	A
Aroclor 1242	ND		ug/l	0.036	0.031	A
Aroclor 1248	ND		ug/l	0.036	0.031	A
Aroclor 1254	ND		ug/l	0.036	0.031	A
Aroclor 1260	ND		ug/l	0.036	0.031	A
Aroclor 1262	ND		ug/l	0.036	0.031	A
Aroclor 1268	ND		ug/l	0.036	0.031	A
PCBs, Total	ND		ug/l	0.036	0.031	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1752629-2 WG1752629-3									
Aroclor 1016	80		80		40-140	0		50	A
Aroclor 1260	67		66		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		89		30-150	A
Decachlorobiphenyl	79		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		86		30-150	B
Decachlorobiphenyl	78		74		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08-09 Batch: WG1753868-2 WG1753868-3									
Aroclor 1016	53		57		40-140	7		50	A
Aroclor 1260	56		55		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		64		30-150	A
Decachlorobiphenyl	64		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		58		30-150	B
Decachlorobiphenyl	67		68		30-150	B

METALS

Project Name: LEIGHTON AVENUE
Lab Number: L2311903
Project Number: 50527-01
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-05
Client ID: COMPOSITE-01
Sample Location: Not Specified
Date Collected: 03/03/23 10:45
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.38		mg/kg	0.474	0.099	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Barium, Total	30.1		mg/kg	0.474	0.082	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.079	J	mg/kg	0.474	0.046	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Chromium, Total	10.3		mg/kg	0.474	0.046	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Lead, Total	16.0		mg/kg	2.37	0.127	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Mercury, Total	0.133		mg/kg	0.077	0.050	1	03/10/23 10:10	03/10/23 14:25	EPA 7471B	1,7471B	DMB
Selenium, Total	ND		mg/kg	0.947	0.122	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.237	0.134	1	03/10/23 06:30	03/10/23 19:33	EPA 3050B	1,6010D	MRC

Project Name: LEIGHTON AVENUE
Lab Number: L2311903
Project Number: 50527-01
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-06
Client ID: COMPOSITE-02
Sample Location: Not Specified
Date Collected: 03/03/23 13:10
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.96		mg/kg	0.451	0.094	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Barium, Total	88.5		mg/kg	0.451	0.079	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.329	J	mg/kg	0.451	0.044	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Chromium, Total	37.1		mg/kg	0.451	0.043	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Lead, Total	130		mg/kg	2.26	0.121	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Mercury, Total	0.064	J	mg/kg	0.073	0.048	1	03/10/23 10:10	03/10/23 14:28	EPA 7471B	1,7471B	DMB
Selenium, Total	0.798	J	mg/kg	0.902	0.116	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.226	0.128	1	03/10/23 06:30	03/10/23 19:38	EPA 3050B	1,6010D	MRC

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-08
Client ID: GPMW-05
Sample Location: Not Specified
Sample Depth:
Matrix: Water

Date Collected: 03/06/23 15:35
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00672		mg/l	0.00050	0.00016	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Barium, Total	0.3787		mg/l	0.00050	0.00017	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Cadmium, Total	0.00126		mg/l	0.00020	0.00005	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Chromium, Total	0.01181		mg/l	0.00100	0.00017	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Lead, Total	0.06603		mg/l	0.00100	0.00034	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Mercury, Total	0.00014	J	mg/l	0.00020	0.00009	1	03/13/23 08:50	03/13/23 15:20	EPA 7470A	1,7470A	ZNK
Selenium, Total	0.0147		mg/l	0.00500	0.00173	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/13/23 08:18	03/13/23 20:17	EPA 3005A	1,6020B	NTB

Project Name: LEIGHTON AVENUE
Lab Number: L2311903
Project Number: 50527-01
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-09
Client ID: GPMW-10
Sample Location: Not Specified
Date Collected: 03/06/23 15:00
Date Received: 03/07/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00240		mg/l	0.00050	0.00016	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Barium, Total	0.1180		mg/l	0.00050	0.00017	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Cadmium, Total	0.00032		mg/l	0.00020	0.00005	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Chromium, Total	0.00478		mg/l	0.00100	0.00017	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Lead, Total	0.00421		mg/l	0.00100	0.00034	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/13/23 08:50	03/13/23 15:32	EPA 7470A	1,7470A	ZNK
Selenium, Total	0.00496	J	mg/l	0.00500	0.00173	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/13/23 08:18	03/13/23 20:22	EPA 3005A	1,6020B	NTB

Project Name: LEIGHTON AVENUE **Lab Number:** L2311903

Project Number: 50527-01 **Report Date:** 03/14/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1752937-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Chromium, Total	0.148	J	mg/kg	0.400	0.038	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC
Silver, Total	ND		mg/kg	0.200	0.113	1	03/10/23 06:30	03/10/23 17:05	1,6010D	MRC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1752938-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	03/10/23 10:10	03/10/23 13:35	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1753333-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/13/23 08:18	03/13/23 18:30	1,6020B	NTB

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1753334-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	03/13/23 08:50	03/13/23 15:00	1,7470A	ZNK

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1752937-2 SRM Lot Number: D116-540								
Arsenic, Total	100		-		82-119	-		
Barium, Total	92		-		82-118	-		
Cadmium, Total	101		-		82-118	-		
Chromium, Total	98		-		81-118	-		
Lead, Total	97		-		83-117	-		
Selenium, Total	100		-		78-122	-		
Silver, Total	95		-		79-121	-		
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1752938-2 SRM Lot Number: D116-540								
Mercury, Total	98		-		58-142	-		
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1753333-2								
Arsenic, Total	104		-		80-120	-		
Barium, Total	102		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Lead, Total	102		-		80-120	-		
Selenium, Total	106		-		80-120	-		
Silver, Total	105		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1753334-2					
Mercury, Total	99	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1752937-3 QC Sample: L2312292-01 Client ID: MS Sample												
Arsenic, Total	2.46	9.83	12.9	106		-	-		75-125	-		20
Barium, Total	33.0	164	195	99		-	-		75-125	-		20
Cadmium, Total	0.062J	4.34	4.55	105		-	-		75-125	-		20
Chromium, Total	4.96	16.4	22.0	104		-	-		75-125	-		20
Lead, Total	5.85	43.4	49.2	100		-	-		75-125	-		20
Selenium, Total	ND	9.83	9.94	101		-	-		75-125	-		20
Silver, Total	ND	4.1	4.18	102		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1752938-3 QC Sample: L2312292-01 Client ID: MS Sample												
Mercury, Total	ND	1.31	1.35	103		-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1753333-3 WG1753333-4 QC Sample: L2312222-02 Client ID: MS Sample												
Arsenic, Total	0.00040J	0.12	0.1267	106		0.1269	106		75-125	0		20
Barium, Total	0.6765	2	2.675	100		2.752	104		75-125	3		20
Cadmium, Total	ND	0.053	0.05577	105		0.05764	109		75-125	3		20
Chromium, Total	0.00116	0.2	0.2020	100		0.2029	101		75-125	0		20
Lead, Total	0.00128	0.53	0.5407	102		0.5528	104		75-125	2		20
Selenium, Total	ND	0.12	0.126	105		0.130	108		75-125	3		20
Silver, Total	ND	0.05	0.05166	103		0.05224	104		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1753333-7 WG1753333-8 QC Sample: L2312213-04 Client ID: MS Sample									
Arsenic, Total	0.0002J	0.12	0.1331	111	0.1287	107	75-125	3	20
Barium, Total	0.0125	2	2.149	107	2.081	103	75-125	3	20
Cadmium, Total	ND	0.053	0.05985	113	0.05827	110	75-125	3	20
Chromium, Total	0.0041	0.2	0.2140	105	0.2108	103	75-125	2	20
Lead, Total	ND	0.53	0.5689	107	0.5490	104	75-125	4	20
Selenium, Total	ND	0.12	0.134	112	0.129	108	75-125	4	20
Silver, Total	ND	0.05	0.05434	109	0.05348	107	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1753334-3 WG1753334-4 QC Sample: L2312222-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00500	100	0.00510	102	75-125	2	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1752937-4 QC Sample: L2312292-01 Client ID: DUP Sample						
Arsenic, Total	2.46	2.59	mg/kg	5		20
Barium, Total	33.0	28.7	mg/kg	14		20
Cadmium, Total	0.062J	0.075J	mg/kg	NC		20
Chromium, Total	4.96	4.77	mg/kg	4		20
Lead, Total	5.85	6.53	mg/kg	11		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1752938-4 QC Sample: L2312292-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2311903
Report Date: 03/14/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1753333-6 QC Sample: L2312222-02 Client ID: DUP Sample						
Barium, Total	0.6765	0.6641	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-01
Client ID: GP-02
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 03/03/23 10:30
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-02
Client ID: GP-04
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 03/03/23 11:15
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-03
Client ID: GPMW-05
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 03/03/23 11:45
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-04
Client ID: GP-08
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 03/03/23 13:05
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-05
Client ID: COMPOSITE-01
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 03/03/23 10:45
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2311903
Report Date: 03/14/23

SAMPLE RESULTS

Lab ID: L2311903-06
Client ID: COMPOSITE-02
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 03/03/23 13:10
Date Received: 03/07/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	03/09/23 08:43	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2311903

Report Date: 03/14/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1752671-1 QC Sample: L2311903-01 Client ID: GP-02						
Solids, Total	88.0	88.1	%	0		20

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2311903-01A	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NYTCL-8082(365)
L2311903-02A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2311903-02X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-02Y	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-02Z	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-03A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2311903-03X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-03Y	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-03Z	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-04A	Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-04B	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TS(7),NYTCL-8082(365)
L2311903-04X	Vial MeOH preserved split	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-04Y	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-04Z	Vial Water preserved split	A	NA		3.8	Y	Absent	**10-MAR-23 11:45**	NYTCL-8260-R2(14)
L2311903-05A	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2311903-05B	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),TS(7)
L2311903-06A	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180)
L2311903-06B	Vial Large Septa unpreserved (4oz)	A	NA		3.8	Y	Absent		NYTCL-8270(14),TS(7)
L2311903-07A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-07B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-07C	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2311903
Report Date: 03/14/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2311903-08A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-08B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-08C	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-08D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		SE-6020T(180),BA-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180)
L2311903-08E	Amber 120ml unpreserved	A	7	7	3.8	Y	Absent		NYTCL-8082-LVI(365)
L2311903-08F	Amber 120ml unpreserved	A	7	7	3.8	Y	Absent		NYTCL-8082-LVI(365)
L2311903-09A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-09B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-09C	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L2311903-09D	Plastic 250ml HNO3 preserved	A	<2	<2	3.8	Y	Absent		BA-6020T(180),SE-6020T(180),CR-6020T(180),PB-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180)
L2311903-09E	Amber 120ml unpreserved	A	7	7	3.8	Y	Absent		NYTCL-8082-LVI(365)
L2311903-09F	Amber 120ml unpreserved	A	7	7	3.8	Y	Absent		NYTCL-8082-LVI(365)
L2311903-10A	Vial HCl preserved	A	NA		3.8	Y	Absent		ARCHIVE()
L2311903-10B	Vial HCl preserved	A	NA		3.8	Y	Absent		ARCHIVE()

*Values in parentheses indicate holding time in days

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2311903
Project Number:	50527-01	**Report Date:**	03/14/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/8/23

ALPHA Job #: L2311403

Client Information
Client: Lu Engineers
Address: 280 E. Broad St.
Site 170 Rochester NY
Phone: 585-385-7417
Fax:
Email: bseifert@luengineers.com

Project Information
Project Name: Leighton Avenue
Project Location:
Project # 50527-01
(Use Project name as Project #) ☐
Project Manager: Ben Seifert
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other Base report only

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO # 50527-01
gregandrus@luengineers.com

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please homogenize composite samples to the extent possible

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs TCL+CP-51 8260	SVOCs B/N only 8270	RCRA Metals 6010/7470	PCBs 8082	VOCs TCL+CP-51 8260	RCRA Metals 6010/7470	PCBs 8082		Sample Specific Comments	Total Bottle
11403-01	GP-02	03/03/23	10:30	Soil	BGS				✓						1
02	GP-04	↓	11:15	↓	BGS	✓									1
03	GPMW-05		11:45		BGS	✓									1
04	GP-08		13:05		BGS	✓			✓						2
05	Composite-01		10:45		BGS		✓	✓							2
06	Composite-02	↓	13:10	↓	BGS		✓	✓							2
07	GPMW-01	03/06/23	16:20	Groundwater	BGS					✓					3
08	GPMW-05	↓	15:35	↓	BGS					✓	✓	✓			6
09	GPMW-10	↓	15:00	↓	BGS					✓	✓	✓			6
	Container Type					A	A	A	A	✓	P	A			
	Preservative					A	A	A	A	B	C	A			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	03/07/23 13:45	SECURE STORAGE AAL	3/7/23 13:45
SECURE STORAGE AAL	3/7/23 16:57	RCunningham AAL	3/7/23 16:57
RCunningham AAL	3/8/23 16:57		3/8/23 00:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2313576
Client:	Lu Engineers 280 E Broad St. Suite 170 Rochester, NY 14604
ATTN:	Ben Seifert
Phone:	(585) 385-7417
Project Name:	LEIGHTON AVENUE
Project Number:	50527-01
Report Date:	03/21/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2313576
Report Date: 03/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2313576-01	COMPOSITE-02	SOIL	Not Specified	03/03/23 13:10	03/07/23

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 03/21/23

METALS

Project Name: LEIGHTON AVENUE
Lab Number: L2313576
Project Number: 50527-01
Report Date: 03/21/23

SAMPLE RESULTS

Lab ID: L2313576-01
Client ID: COMPOSITE-02
Sample Location: Not Specified
Sample Depth:
Matrix: Soil

Date Collected: 03/03/23 13:10
Date Received: 03/07/23
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 03/17/23 09:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	0.0270	1	03/21/23 10:31	03/21/23 15:30	EPA 3015	1,6010D	DMB

Project Name: LEIGHTON AVENUE
Project Number: 50527-01
Lab Number: L2313576
Report Date: 03/21/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1756856-1										
Lead, TCLP	ND		mg/l	0.500	0.0270	1	03/21/23 10:31	03/21/23 13:42	1,6010D	DMB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 03/16/23 03:10

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2313576

Report Date: 03/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1756856-2								
Lead, TCLP	101		-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2313576
Report Date: 03/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1756856-3 QC Sample: L2313773-07 Client ID: MS Sample												
Lead, TCLP	ND	5.3	5.39	102		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: LEIGHTON AVENUE

Project Number: 50527-01

Lab Number: L2313576

Report Date: 03/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1756856-4 QC Sample: L2313773-07 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20

Project Name: LEIGHTON AVENUE
Project Number: 50527-01

Lab Number: L2313576
Report Date: 03/21/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2313576-01A	Vial Large Septa unpreserved (4oz)	A	NA		3.8	Y	Absent		-
L2313576-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.8	Y	Absent		PB-CI(180)
L2313576-01X9	Tumble Vessel	A	NA		3.8	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	LEIGHTON AVENUE	**Lab Number:**	L2313576
Project Number:	50527-01	**Report Date:**	03/21/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

3/16/23 L2313576

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/8/23

ALPHA Job #: ~~L2311703~~ 66

Client Information
Client: Lu Engineers
Address: 280 E. Broad St. Site 170 Rochester NY
Phone: 585-385-7417
Fax:
Email: bseifert@luengineers.com

Project Information
Project Name: Leighton Avenue
Project Location:
Project # 50527-01
(Use Project name as Project #) ☐
Project Manager: Ben Seifert
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☑ Other Base report only

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☑ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO # 50527-01
gregandrus@luengineers.com

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Please homogenize composite samples to the extent possible

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs TCL+CP-ST 8260	SVOCs B/N only 8270	RCRA Metals 6010	PCBs 8082	VOCs Target+ 8260	RCRA Metals 6010/7470	PCBs 8082	TCLP-LEAD	Sample Specific Comments	Total Bottles
~~L2311703~~-01	GP-02	03/03/23	10:30	Soil	BGS				✓						1
02	GP-04	↓	11:15	↓	BGS	✓									1
03	GPMW-05		11:45		BGS	✓									1
04	GP-08		13:05		BGS	✓			✓						2
05	Composite-01		10:45		BGS		✓	✓							2
L2313576-01 06	Composite-02	↓	13:10	↓	BGS		✓	✓					X		2
07	GPMW-01	03/06/23	16:20	Groundwater	BGS					✓					3
08	GPMW-05	↓	15:35	↓	BGS					✓	✓	✓			6
09	GPMW-10	↓	15:00	↓	BGS					✓	✓	✓			6

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A	✓	P	A	
Preservative	A	A	A	A	B	C	A	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	03/07/23 13:45	SECURE STORAGE AAL	3/7/23 13:45
SECURE STORAGE AAL	3/7/23 16:57	RCunningham AAL	3/7/23 16:57
RCunningham AAL	3/8/23 16:57	[signature]	3/8/23 00:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)