Phase II Environmental Investigation Report

670 Ohio Street
Buffalo, New York

June 2022 T0635-022-001

Prepared For: 710 Ohio Street Group, LLC

Prepared By:

TurnKey Environmental Restoration, LLC

2558 Hamburg Turnpike, Suite 300, Buffalo, New York | phone: (716) 856-0635 | fax: (716) 856-0583

PHASE II ENVIRONMENTAL INVESTIGATION REPORT

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Buffalo, New York

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Prepared for:

710 Ohio Street Group, LLC

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2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

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670 OHIO STREET
BUFFALO, NEW YORK

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1.0 INTRODUCTION

1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Investigation for 710 Ohio Street Group, LLC at the property addressed at 670 Ohio Street, City of Buffalo, Erie County, New York (Site; see Figure 1).

The Site is located in a highly developed commercial and industrial area of the City of Buffalo (see Figure 1). As shown on Figure 2, four buildings are on-Site, as follows: Building 1 is a vacant former industrial chemical manufacturing building currently used as construction equipment storage, Building 2 is a vacant former storage building, Building 3 is a former transformer house noted north of Building 1, and Building 4 is a former boiler house noted north of Building 1.

The Site consists of one parcel totaling approximately 6.22-acres and is supplied with municipal sanitary sewer, electric, natural-gas and public water.

The scope of work for the Phase II investigation was devised based on recognized environmental conditions (RECs) identified for the Site by TurnKey through completion of a Phase I Environmental Site Assessment, dated March 30, 2022; see Section 1.2 below for additional information.

1.2 Previous Study

As detailed in TurnKey's Phase I, historic Site uses were identified as:

Approximate Years	Reported or Suspected Use	Owner/Occupant
At least 1894- prior to 1925	Vacant land/ Railroad	Unknown
1925-Present	Industrial with historical operations including manufacturing of lacquers and shoe cement, a filling station (western portion of the Site), and a machine shop. Current operations include construction equipment storage.	Past owners/occupants include Pierce & Stevens Chemical Corp, Henkel adhesives & sealants, The Site is currently owned and occupied by Apollo Services, Inc.

The specific RECs identified for the Site included the following:

- The long heavy industrial history of the Site with manufacturing of lacquer and shoe cement, railroad tracks, drum storage, and various process/chemical tanks and petroleum underground storage tanks, USTs (including those associated with a former filling station on the western portion of the Site).
- The black staining noted during the Site reconnaissance due to the potential for environmental impacts.
- Apparent fill piles on the southern portion of the Site and the potential for impacted fill material on other parts of the Site due to its history and urban location.

Due to the RECs identified for the Site, TurnKey recommended completion of a Phase II Environmental Investigation to assess subsurface soil and groundwater conditions.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Soil Boring Investigation

On May 2, 2022, TurnKey's subcontractor, Trec Environmental Inc. (Trec), mobilized a track-mounted Geoprobe 66DT drill rig equipped with a 1.5-inch diameter, 48 inch long macro-core sampler to the Site to assess subsurface conditions at the Site. As shown on Figure 2, 12 soil borings designated as SB-1 through SB-12 were completed at the Site. As further described in Section 2.2, three soil borings were converted into temporary one-inch diameter monitoring wells. The soil borings were advanced to depths between 12 and 16 feet below ground surface (fbgs), except for one boring where equipment refusal was encountered at 2.5 fbgs.

The sample cores were retrieved from the boring locations in clear PVC sleeves to allow for field characterization of the subsurface lithology and collection of soil samples by TurnKey's Environmental Scientist. The physical characteristics of all soil borings were classified using the ASTM D2488 Visual-Manual Procedure Description. Soils from each boring were screened via headspace screening using a MiniRae 3000 Photoionization Detector (PID). Visual and/or olfactory observations were noted. All field observations, including lithology, depths, PID scan results, etc., at each investigation location are summarized in the Soil Boring Log sheets provided in Appendix A. Photographs taken during the work are included in Appendix B.

Soil boring SB-1 was completed within the reported area of the former filling station with gasoline USTs. Soil boring SB-2 was completed within the reported area of the former machine shop and boiler house. Soil boring SB-3 was completed within the area of the existing diesel aboveground storage tanks (ASTs). Soil boring SB-4 was completed within the garage area in Building 1. Soil boring SB-5 was completed within the reported area of the former drum storage yard. SB-6 was completed on the eastern portion of the Site. Soil borings SB-7 through SB-9 were completed in on the northern portion of the Site. SB-10 through SB-12 were completed within the building in former manufacturing areas, including former chemical tank areas.

Five soil/fill samples selected for laboratory analysis were transported under chain-of custody command to Eurofins Buffalo (Eurofins) in Amherst, New York for analysis of Target Compound List (TCL) plus New York State Department of Environmental

Conservation (NYSDEC) Commissioners Policy 51 (CP-51) List volatile organic compounds (VOCs), Target Compound List semi volatile organic compounds (SVOCs), and/or Resource Conservation and Recovery Act (RCRA) metals. All samples were collected in laboratory provided sample bottles and were cooled to 4^0 C prior to transport.

2.2 Groundwater Sampling

Three soil borings, SB-9, SB-10, and SB-12, were converted into a temporary one-inch diameter monitoring wells (SB-9W, SB-10W, and SB-12W). The temporary wells were installed using one-inch diameter Schedule 40 PVC well screen and riser. Groundwater grab samples were collected from the temporary wells using a dedicated and disposable 0.5" polyethylene bailer. The temporary wells were manually decommissioned (pulled) following groundwater sampling activities. The resulting open annulus was backfilled with Site soils. It should be noted no groundwater sample was collected from SB-10W due to a lack of groundwater.

Two groundwater samples were placed in pre-cleaned laboratory provided sample bottles, cooled to 4 °C in the field, and transported under chain-of-custody to Eurofins for analysis of TCL plus CP-51 VOCs.

3.0 INVESTIGATION FINDINGS

3.1 Site Geology/Hydrogeology

The overburden geology observed during the investigation activities is generally described as fill materials overlying native sand or combinations of sand and clay to at least ten fbgs. Fill material consisting of black fines, cinders, sand and gravel with intermingled brick fragments was encountered across the Site at all of the investigation locations at depths ranging between 1 fbgs and 13 fbgs. Ash was noted intermingled with fill materials at certain borings (SB-5, SB-6, and SB-10/10W), glass fragments were noted at SB-7 and SB-10/10W, and a white chalky material was noted at SB-1. Trace slag was noted intermingled with fill materials at SB-7.

Groundwater was generally encountered at all investigation locations at depths between approximately seven to ten fbgs.

Groundwater flow is likely to the west or east towards the Buffalo River. Local groundwater flow, however, may be influenced by subsurface features, such as excavations, utilities, and localized fill-conditions.

3.2 Field Observations

Soil samples from the soil boring investigation were observed and scanned via headspace screening for volatile organics using a PID. A brief description of the field observations during the boring investigation is presented below:

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
SB-1	Former filling Station with gasoline USTs	0.0 ppm throughout boring.	Fill to 12.5 ft
SB-2	Former machine shop and boiler house	0.0 ppm throughout boring.	Fill to 8 ft
SB-3	Existing diesel ASTs	0.0 ppm throughout boring.	Fill to 3 ft
SB-4	Existing building garage area	0.0 ppm throughout boring.	Fill to 5 ft
SB-5	Former drum storage yard	0.0 ppm throughout boring.	Fill to 8 ft
SB-6	East of Former chemical tank area	0.0 ppm throughout boring.	Fill to 4.5 ft

Investigation Location ID	Environmental Concern Assessed	Highest PID reading (parts per million, ppm) and depth (fbgs)	Other Observations
SB-7	Adjacent Voluntary Cleanup Program (VCP) Site	0.0 ppm throughout boring.	Fill to 8 ft. Trace intermingled slag noted in fill.
SB-8	Lacquer and shoe cement manufacturer	0.0 ppm throughout boring.	Fill to 8.3 ft
SB-9/SB-9W	Former manufacturing	0.0 ppm throughout boring.	Fill to 13 ft
SB-10/SB-10W	Building 1 Interior - Former Chemical Tanks	0.0 ppm throughout boring.	Fill to 9 ft
SB-11	Building 1 Interior - Former Chemical Tanks	4 ppm to 2.5 fbgs at equipment refusal.	Fill to 2.5 ft
SB-12/SB-12W	Building 1 Interior - Former Chemical Tanks	3,044 ppm at 8 ft.	Fill to 12.5 ft , Chemical-like odors

3.3 Soil Analytical Results

Table 1 presents a summary of the detected VOCs, polycyclic aromatic hydrocarbons (PAHs), and metals for each of the five soil/fill samples selected for laboratory analysis from the investigation. For comparative purposes, Table 1 includes 6NYCRR Part 375 Unrestricted, Restricted-Residential, Commercial and Industrial Use Soil Cleanup Objectives (USCOs, RRSCOs, CSCOs and ISCOs, respectively). In addition, due to the history of petroleum USTs at the Site, analytical results were also compared to NYSDEC CP-51 SCLs. Appendix C contains a copy of the laboratory analytical data package.

As summarized on Table 1, VOCs were identified at concentrations exceeding CP-51 SCLs at SB-11 (0-2') and SB-12 (6-8'). Regarding SB-12, toluene at a concentration of 730 milligrams per kilogram (mg/kg) exceeds its respective CSCO (500 mg/kg) and a total xylenes concentration of 240 mg/kg exceeds its respective RRSCO (100 mg/kg).

PAHs were either not detected at concentrations above laboratory limits or concentrations were below regulatory criteria except for benzo(k)fluoranthene at SB-5, which slightly exceeds its respective CP-51 SCL and USCO.

Metals were identified at concentrations exceeding Part 375 SCOs at all five soil/fill samples collected from across the Site. Most notably, arsenic was identified above its ISCOs (16 mg/kg) in fill material at SB-7 (23.4 mg/kg) and SB-11(21.3 mg/kg). In addition, regarding SB-7, concentrations of barium and lead exceed their respective CSCOs.

3.4 Groundwater Analytical Results

Groundwater sample results are summarized on Table 2 with comparison to Class GA Groundwater Quality Standards (GWQS) per NYSDEC Technical and Operational Guidance Series (T.O.G.S 1.1.1). A copy of the complete laboratory analytical data package is included in Appendix C.

As indicated on Table 2, the groundwater samples collected from SB-9/9W and SB-12/12W exhibited VOCs at concentrations exceeding the Class GA Groundwater Quality Standards (GWQS), per NYSDEC Technical and Operational Guidance Series (T.O.G.S 1.1.1). Petroleum VOCs (benzene, toluene, ethylbenzene, and/or xylenes) and a chlorinated VOC (2-butanone/methyl ethyl ketone) exceed their respective GWQS. The most significant total VOC concentration, totaling over 140 ppm, was identified at SB-12/12W, located within the north-central portion of the building near two former bulk storage aboveground tanks (this is the former chemical storage tank area identified on historic Sanborn maps).

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II investigation at the Site, TurnKey offers the following conclusions and recommendations:

- The Site has a history of heavy industrial usage with operations including manufacturing of lacquers and shoe cement. Additional operations of environmental concern included a machine shop and a filling station.
- The highest PID reading identified during the work was over 3,000 ppm in a former chemical storage tank area (per Sanborns) in Building 1 at SB-12/12W. Chemical odors were also identified at this location. In addition, as further detailed below, laboratory analytical results revealed subsurface soil and groundwater VOC impacts.
- Fill materials were identified across the Site at depths ranging between 1 fbgs and 13 fbgs.
- Metals, including arsenic, barium, and lead were detected in soil/fill at concentrations exceeding CSCOs and/or ISCOs.
- VOC-impacted soil with petroleum VOCs exceeding CP-51 SCLs and/or Part 375 SCOs (RRSCOs and CSCOs) were identified within Building 1 in the former chemical storage tank area at SB-11 and SB-12/12W. In addition, VOC-impacted groundwater was identified in areas within or proximate to the former chemical storage tank area at SB-9/9W and SB-12/12W. The most significant VOC concentrations in groundwater, with petroleum and chlorinated VOC exceedances, were identified under Building 1 at SB-12/12W.
- We understand that this Site is being considered for redevelopment. Based on the findings detailed above, the Site is a potential candidate for the New York State Brownfield Cleanup Program (BCP). Regardless of whether the BCP is pursued, impacted soil/fill materials present on-Site will require exposure control, remediation, and/or proper soil management either prior to or during the redevelopment project.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of 710 Ohio Street Group, LLC. The contents of this report are limited to information available at the time of the Site investigation activities and to data referenced herein and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of 710 Ohio Street Group, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of TurnKey Environmental Restoration, LLC.

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
670 OHIO STREET
BUFFALO, NEW YORK

PARAMETER [1]	CP-51 SCLs[2]	Unrestricted Use SCOs[3]	Restricted Residential Use SCOs[3]	Commercial Use SCOs[3]	Industrial Use SCOs[3]	Sample Location (Depth)				
						SB-1 (4-5 FT)	SB-5 (0-2 FT)	SB-7 (0-2 FT)	SB-11 (0-2 FT)	SB-12/12W (6-8 FT)
						5/02/2022	5/02/2022	5/02/2022	5/02/2022	5/02/2022
Volatile Organic Compounds (VOCs) - mg/kg [4]										
1,2,4-Trimethylbenzene	**3.6**	**3.6**	**52**	**190**	**380**	--	--	--	0.12 J	**4.7 J**
1,3,5-Trimethylbenzene	**8.4**	**8.4**	**52**	**190**	**380**	--	--	--	0.057 J	ND
Benzene	**0.06**	**0.06**	**4.8**	**44**	**89**	--	--	--	0.041 J	ND
Butanone (MEK)	**0.12**	**0.12**	**100**	**100**	**500**	--	--	--	ND	**87**
Ethylbenzene	**1**	**1**	**41**	**390**	**780**	--	--	--	0.065 J	**35**
Methyl cyclohexane	**--**	**--**	**--**	**--**	**--**	--	--	--	1.3	39
Methyl-2-pentanone	**--**	**--**	**--**	**--**	**--**	--	--	--	ND	23 J
Naphthalene	**12**	**12**	**100**	**500**	**1000**	--	--	--	ND	5.2 J
Toulene	**0.7**	**0.7**	**100**	**500**	**1000**	--	--	--	**3.6**	**730**
Xylenes, Total	**0.26**	**0.26**	**100**	**500**	**1000**	--	--	--	**0.31 J**	**240**
Semi-Volatile Organic Compounds (SVOCs) - mg/kg [4]										
Acenaphthene	**20**	**20**	**100**	**500**	**1000**	ND	0.065 J	ND	ND	0.046 J
Acenaphthylene	**100**	**100**	**100**	**500**	**1000**	ND	0.044 J	ND	ND	0.028 J
Anthracene	**100**	**100**	**100**	**500**	**1000**	ND	0.21	ND	ND	0.069 J
Benzo[a]anthracene	**1**	**1**	**1**	**5.6**	**11**	ND	0.64	ND	ND	0.18 J
Benzo[a]pyrene	**1**	**1**	**1**	**1**	**1.1**	ND	0.64	0.46 J	ND	0.12
Benzo[b]fluorathene	**1**	**1**	**1**	**5.6**	**11**	ND	0.34	0.45 J	ND	0.22
Benzo[g,h,i]perylene	**100**	**100**	**100**	**500**	**1000**	ND	0.4	ND	ND	0.086 J
Benzo[k]fluoranthene	**0.8**	**0.8**	**3.9**	**56**	**110**	ND	**0.9**	0.32 J	ND	ND
Chrysene	**1**	**1**	**3.9**	**56**	**110**	ND	0.67	ND	ND	0.21
Dibenz(a,h)anthracene	**0.33**	**0.33**	**0.33**	**0.56**	**1.1**	ND	0.13 J	ND	ND	ND
Fluoranthene	**100**	**100**	**100**	**500**	**1000**	ND	1.2	0.65 J	ND	0.36
Fluorene	**30**	**30**	**100**	**500**	**1000**	ND	0.079 J	ND	ND	0.068 J
Indeno(1,2,3-cd)pyrene	**0.5**	**0.5**	**5.6**	**5.6**	**11**	ND	0.38	ND	ND	0.092
Naphthalene	**12**	**12**	**500**	**500**	**1000**	ND	0.068 J	ND	ND	0.61
Phenanthrene	**100**	**100**	**100**	**500**	**1000**	ND	0.9	0.41 J	ND	0.43
Pyrene	**100**	**100**	**100**	**500**	**1000**	ND	1.2	0.58 J	ND	0.31
RCRA Metals - mg/kg										
Arsenic	**--**	**13**	**16**	**16**	**16**	12.5	12.9	**23.4**	**21.3**	8.2
Barium	**--**	**350**	**400**	**400**	**10000**	160	105	**736**	165 F1	64.1
Cadmium	**--**	**2.5**	**4.3**	**9.3**	**60**	0.99	0.53	**9.2**	0.21 J	0.22 J
Chromium	**--**	**31**	**180**	**1500**	**6800**	19.5	**148**	11.5	21.5	8.3
Lead	**--**	**64**	**400**	**1000**	**3900**	**627**	**173**	**1750**	34.2	**236**
Mercury	**--**	**0.18**	**0.81**	**2.8**	**5.7**	**0.83**	**0.25**	**2.7**	**0.25**	**0.27**
Selenium	**--**	**3.9**	**180**	**1500**	**6800**	2.5 J	3.9 J	3.4 J	2 J	0.79 J
Silver	**--**	**2**	**180**	**1500**	**6800**	0.54 J	ND	0.77	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC CP-51 Soil Cleanup Levels (SCLs) for gasoline or fuel oil impacted sites.
3. Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
4. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCLs

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter. Or parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Bold	= Result exceeds CP-51 SCL and/or 6NYCRR Part 375 Unrestricted Use SCOs.
Bold	= Result exceeds 6NYCRR Part 375 Restricted-Residential Use SCOs.
Bold	= Result exceeds 6NYCRR Part 375 Commercial Use SCOs.
Bold	= Result exceeds 6NYCRR Part 375 Industrial Use SCOs.

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
670 OHIO STREET
BUFFALO, NEW YORK

PARMETER[1]	GWQS[2]	SB-9/9W	SB-12/12W
Volatile Organic Compounds (VOCs) - ug/L			
1-Dichloroethane	**5**	0.55 J	ND
2-Butanone (MEK)	**50**	14	**9000**
Acetone	**50**	7.4 J	ND
Benzene	**1**	**1.8**	ND
Carbon Disulfide	**--**	0.96 J	ND
Chloroethane	**5**	3.5	ND
Cyclohexane	**--**	ND	370 J
Ethylbenzene	**5**	ND	**2400**
Methyl cyclohexane	**--**	0.26 J	1100 J
Methylene Chloride	**5**	0.92 J	ND
m,p-Xylene	**5**	2	**14000**
o-Xylene	**5**	ND	**3900**
Toluene	**5**	**20**	**96000**
Xylenes, Total	**5**	2	**18000**

Notes:

1. Only those parameters with at least one detection are included.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - Class GA (TOGS 1.1.1)

Definitions:

VOC = Volatile Organic Compound
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
ND = Parameter not detected above laboratory detection limit.
BOLD = Result exceeds GWQS.

FIGURES

FIGURE 1

N

2000' 0' 2000' 4000'

SCALE: 1 INCH = 2000 FEET
SCALE IN FEET
(approximate)

TurnKey Environmental Restoration, LLC
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PROJECT NO.: T0635-022-001

DATE: MAY 2022

DRAFTED BY: CMS/ NAS

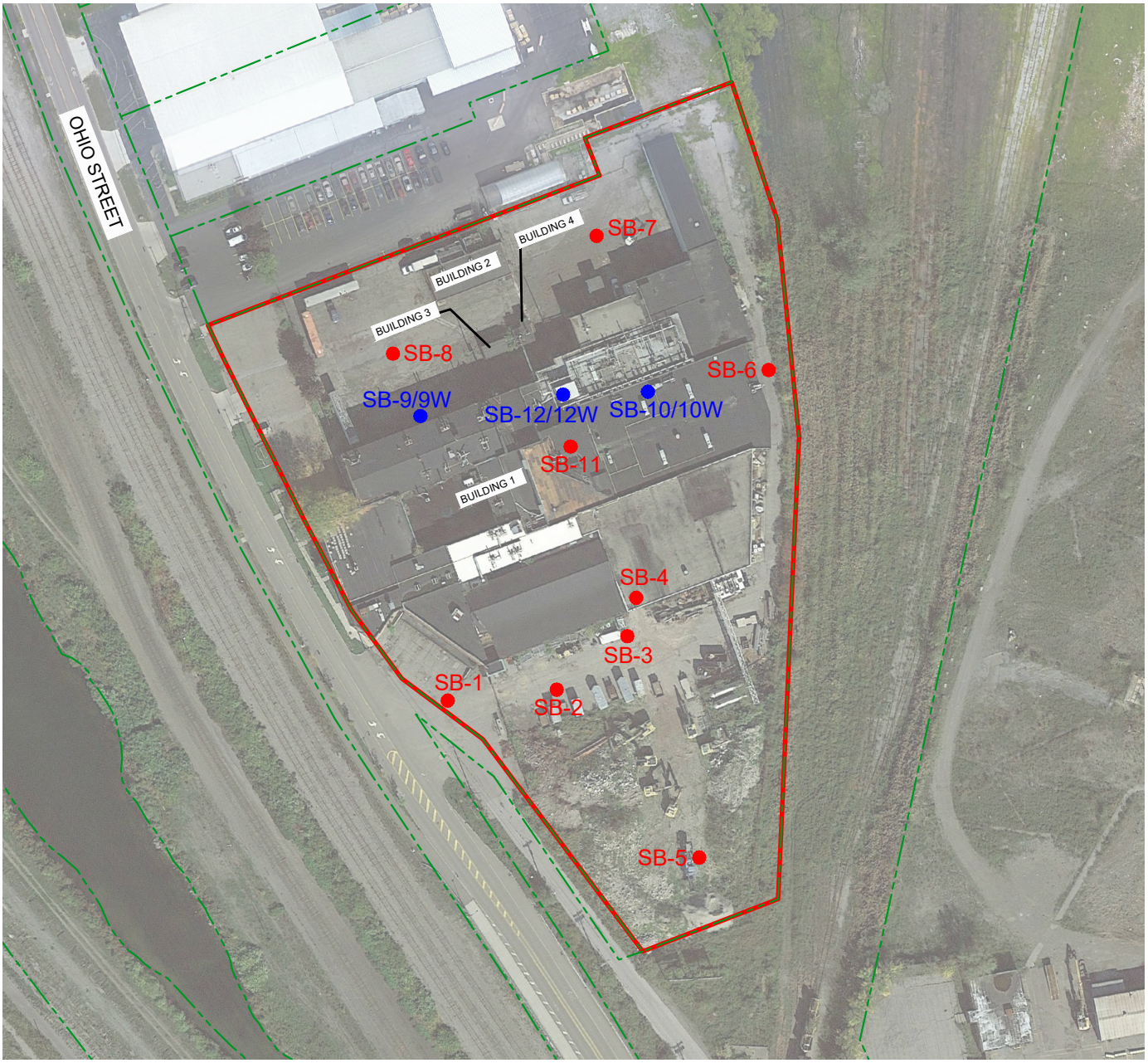
SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL INVESTIGATION

670 OHIO STREET
BUFFALO, NEW YORK

PREPARED FOR
710 OHIO STREET GROUP, LLC

FIGURE 2



N

150' 0' 150' 300'

SCALE: 1 INCH = 150 FEET
SCALE IN FEET
(approximate)

LEGEND:

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SB-1 ● SOIL BORING
- SB-1W ● SOIL BORING/ TEMPORARY MONITORING WELL

TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: T0635-022-001

DATE: MAY 2022

DRAFTED BY: CMS/NAS

INVESTIGATION LOCATIONS

PHASE II ENVIRONMENTAL INVESTIGATION

670 OHIO STREET
BUFFALO, NEW YORK

PREPARED FOR

710 OHIO STREET GROUP, LLC

APPENDIX A

SOIL BORING LOGS

Project No: T0635-022-001

Borehole Number: SB-1

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Fill*** Black/white, moist, mostly white chalky fill materials, some black fines, little cinders, loose when disturbed, no odors	1		0		0.0		
5.0			2		1		0.0	Sampled 4-5 ft	
	-7.0 7.0	***Reworked Sandy Lean Clay*** Dark brown,wet, mostly sandy lean clay, some fill (well sorted gravel, brick, white fines, cinders), stiff, no odors	3		0		0.0		
10.0							0.0		
	-12.5 12.5	***Sandy Lean Clay*** Reddish Brown, mostly medium plasticty fines, some fine sand, stiff, no odors	4		2		0.0		
15.0							0.0		
	-16.0 16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-2

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt***							
		Fill Black, red, grey, tan, mostly fill (cinders, brick, well sorted gravel, black fines), loose when disturbed, no odors	1		1		0.0 / 0.0 / 0.0 / 0.0		
	-4.0 4.0	***Fill*** Black, tan, brown, moist, mostly fill (well sorted gravel, black fines, cinders, fine sand), no odors	2		1.5		0.0 / 0.0 / 0.0 / 0.0		
5.0	-8.0 8.0	***Silty sand*** Dark brown, moist, mostly silty sand, medium dense, no odors	3		0.5		0.0 / 0.0 / 0.0 / 0.0		
10.0	-10.0 10.0	***Sandy Lean Clay*** Reddish Brown, mostly medium plasticty fines, some fine sand, stiff, no odors	4		3		0.0 / 0.0 / 0.0 / 0.0		
15.0	-16.0 16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-3

Project: 670 Ohio Street Site

A.K.A.:

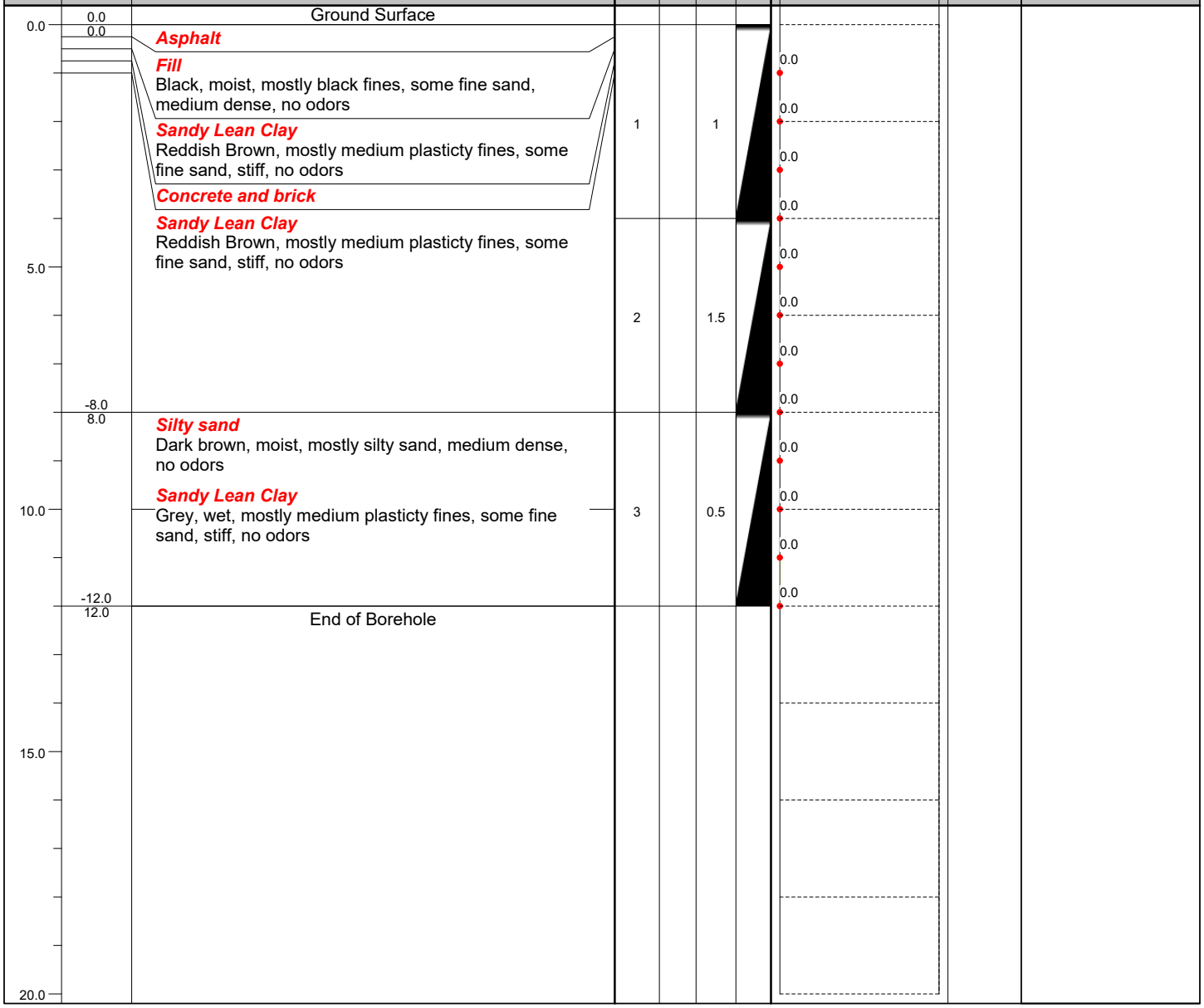
Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635



Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-4

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
		Subangular gravel Grey, moist, mostly subangular gravel, some fine sand, medium dense, no odors							
		Fill Brown/black/tan, moist, mostly fill (brick, fine sand, cinders), loose when disturbed, no odors	1		1		0.0 0.0 0.0 0.0		
5.0	-5.0 5.0	***Sandy Lean Clay*** Reddish Brown, mostly medium plasticty fines, some fine sand, stiff, no odors	2		1.5		0.0 0.0 0.0 0.0		
10.0	-10.0 10.0	***Fine sand*** Tan, wet, mostly fine sand, medium dense, no odors	3		0.5		0.0 0.0 0.0		
	-11.0 11.0	***Sandy Lean Clay*** Grey, wet, mostly medium plasticty fines, some fine sand, stiff, no odors					0.0		
	-12.0 12.0	End of Borehole							
15.0									
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-5

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Brick fill*** Red, moist, mostly brick, loose when disturbed, no odors					0.0	Sampled 0-2 ft	
	-1.0 1.0	***Fill*** Brown/black/tan, moist, mostly fill (cinders, wood, brick, black fines, ash), loose when disturbed, no odors	1		2		0.0		
5.0			2		0.5		0.0 0.0 0.0 0.0 0.0		
	-8.0 8.0	***Fine sand*** Tan, wet, mostly fine sand, medium dense, no odors	3		3		0.0 0.0 0.0 0.0		
10.0	-12.0 12.0	***Sandy Lean Clay*** Tan, wet, mostly medium plasticty fines, some fine sand, stiff, no odors	4		1		0.0 0.0 0.0 0.0 0.0		
15.0	-16.0 16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-6

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt***							
	-1.0 / 1.0	***Fine sand with fill*** Tan, moist, mostly fine sand, little fill (brick, subangular gravel), loose when disturbed, no odors	1		2		0.0		
		Fill Black, moist, mostly fill (cinders, brick, ash, metal, black fines), loose when disturbed, no odors					0.0		
							0.0		
	-4.5 / 4.5	***Sandy Lean Clay*** Grey, moist to wet, (8') mostly sandy lean clay, stiff, no odors	2		4		0.0		
5.0							0.0		
							0.0		
			3		4		0.0		
10.0							0.0		
							0.0		
	-12.0 / 12.0	End of Borehole					0.0		
15.0									
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-7

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt***							
		Fill Brown/grey/red, moist, mostly fill (brick, black fines, glass, iron staining, cinders, intermingled trace slag), loose when disturbed, no odors	1		2		0.0 / 0.0 / 0.0 / 0.0	Sampled 0-2 ft	
5.0			2		1		0.0 / 0.0 / 0.0 / 0.0		
	-8.0 8.0	***Fine sand*** Tan, wet, mostly fine sand, medium dense, no odors	3		0.5		0.0 / 0.0 / 0.0 / 0.0		
10.0	-12.0 12.0	End of Borehole							
15.0									
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-8

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt***							
		Gravel Subbase Grey, moist, mostly subangular gravel, loose when disturbed, no odors							
		Fill Brown, moist, mostly silty sand, some fill (brick, cinders, gravel), loose when disturbed, no odors	1		1		0.0		
							0.0		
							0.0		
							0.0		
5.0			2		1		0.0		
							0.0		
							0.0		
							0.0		
	-8.3 8.3	***Sandy Lean Clay*** Grey, wet, mostly sandy lean clay, stiff, no odors					0.0		
10.0			3		3		0.0		
							0.0		
							0.0		
	-12.0 12.0	End of Borehole							
15.0									
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-9/9W

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 / 12.5 / 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Asphalt***							
		Fine sand with clay Tan/brown, moist, msotly fine sand, some sandy lean clay, stiff, no odors							
	-2.0 / 2.0	***Fill*** Black, wet, mostly fill (cinders, black fines, subrounded gravel, metal, iron stained sand, loose when disturbed, no odors	1		2		0.0		
5.0			2		1.5		0.0		
10.0			3		1.5		0.0		
	-13.0 / 13.0	***Fine sand*** Tan, wet, mostly fine sand, medium dense, no odors	4		3		0.0		
15.0	-16.0 / 16.0	End of Borehole					0.0		
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-10/10W

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
	-1.0 / 1.0	***Fill*** Black, moist, mostly foundry sand, medium dense, no odors							
		Fine sand Tan, moist, mostly fine sand, some subangular gravel, medium dense, no odors	1		2		0.0		
	-4.0 / 4.0	***Fill*** Black, moist, mostly fill (cinders, glass, black fines, ash), loose when disturbed, no odors	2		2		0.0		
5.0							0.0		
							0.0		
	-9.0 / 9.0	***Sandy Lean Clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, slight odors	3		4		0.0		
10.0							0.0		
							0.0		
			4		4		0.0		
15.0							0.0		
	-16.0 / 16.0	End of Borehole					0.0		
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-11

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (%)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0 -0.5	***Concrete***							
	0.5	***Fill*** Black, moist, mostly black fines, little fill (cinders, concrete, subangular gravel, cinders), slight chemical odor	1		2.5		4.0 4.0	Sampled 0-2 ft	
	-2.5 2.5	End of Borehole							
5.0									
10.0									
15.0									
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments: Refual at 2.5 ft
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

Project No: T0635-022-001

Borehole Number: SB-12/12W

Project: 670 Ohio Street Site

A.K.A.:

Client: 710 Ohio Street Group, LLC

Logged By: NAS

Site Location: Buffalo, NY

Checked By: BWM

TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218
(716) 856-0635

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs (ppm)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete***							
		Fill Grey/black, moist/ wet (8'), mostly fill (cinders, black fines), some fine sand, chemical-like odors	1		2.5		600.0, 650.0, 707.0, 2905.0		
5.0			2		2		2980.0, 2908.0, 3000.0, 3044.0	Sampled 6-8 ft	
10.0			3		1		500.0, 300.0, 10.0, 10.0		
	-12.5 12.5	***Sandy Lean Clay*** Grey, moist, mostly medium plasticity fines, some fine sand, stiff, slight odors	4		4		7.0, 5.0, 0.0, 0.0		
15.0	-16.0 16.0	End of Borehole							
20.0									

Drilled By: Trec Environmental, Inc.
Drill Rig Type: Geoprobe 66DT
Drill Method: Direct Push
Comments:
Drill Date(s): 5/2/2022

Hole Size: 2"
Stick-up: N/A
Datum: NAVD 88

Sheet: 1 of 1

APPENDIX B

PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: View of the drilling of SB-2.

Photo 2: View of the fill materials noted across the Site.

Photo 3: View of the drilling of SB-7.

Photo 4: View of the fill materials noted across the Site.

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: View of the groundwater encountered at SB-12/12W.

Photo 6: View of the drilling of SB-10.

Photo 7: View of the fill materials noted across the Site.

Photo 8: View of the fill materials noted across the Site.

APPENDIX C

LABORATORY ANALYTICAL DATA SUMMARY PACKAGE

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197455-1
Client Project/Site: Benchmark-710 Ohio St,Bflo, NY

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Attn: Bryan Mayback

Authorized for release by:
5/11/2022 10:41:18 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@et.eurofinsus.com

LINKS

Review your project results through TotalAccess

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Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-197455-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-197455-1

Comments
No additional comments.

Receipt
The samples were received on 5/3/2022 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.5º C and 7.9º C.

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level soil analysis to bring the concentration of target analytes within the calibration range: SB-11 0-2FT (480-197455-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SB-12 6-8FT (480-197455-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-624675 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated samples are impacted: SB-11 0-2FT (480-197455-4) and SB-12 6-8FT (480-197455-5).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-12W (480-197455-7). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery in the continuing calibration verification (CCV) was outside the 20%D recovery but within house limits. The following samples are impacted: SB-9W (480-197455-6) and SB-12W (480-197455-7).

Method 8260C: The following sample were collected in a unpreserved vials; however, the test assigned is preserved. The sample was analyzed within the 7-day holding time specified for unpreserved samples: SB-9W (480-197455-6).

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: SB-12W (480-197455-7).

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

GC/MS Semi VOA
Method 8270D: The following sample was diluted due to color and appearance: SB-7 0-2FT (480-197455-3). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to viscosity: SB-1 4-5FT (480-197455-1). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples required a dilution due to sample viscosity: SB-1 4-5FT (480-197455-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB-11 0-2FT (480-197455-4). These results have been reported and qualified.

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

Metals
Method 6010C: The serial dilution and post spike (480-197455-B-4-D PDS) and (480-197455-B-4-D SD ^5), associated with batch

Job ID: 480-197455-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

480-624857, exceeded the quality control limits for Total Barium. Sample matrix is suspected, therefore, no corrective action was necessary.

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

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

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-1 4-5FT — Lab Sample ID: 480-197455-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12.5		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	160		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.99		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.5		0.69	0.28	mg/Kg	1	☼	6010C	Total/NA
Lead	627		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.5	J	5.6	0.56	mg/Kg	1	☼	6010C	Total/NA
Silver	0.54	J	0.83	0.28	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.83		0.030	0.0069	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-5 0-2FT — Lab Sample ID: 480-197455-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	65	J	190	29	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	44	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Anthracene	210		190	48	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	640		190	19	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	640		190	29	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	900		190	31	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	400		190	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	340		190	25	ug/Kg	1	☼	8270D	Total/NA
Chrysene	670		190	43	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	190	34	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1200		190	21	ug/Kg	1	☼	8270D	Total/NA
Fluorene	79	J	190	23	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	380		190	24	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	68	J	190	25	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		190	23	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	900		190	29	ug/Kg	1	☼	8270D	Total/NA
Arsenic	12.9		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	105		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.53		0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	148		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Lead	173		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.9	J	4.8	0.48	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.25		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-7 0-2FT — Lab Sample ID: 480-197455-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	460	J	2100	310	ug/Kg	10	☼	8270D	Total/NA
Benzo[b]fluoranthene	450	J	2100	330	ug/Kg	10	☼	8270D	Total/NA
Benzo[k]fluoranthene	320	J	2100	270	ug/Kg	10	☼	8270D	Total/NA
Fluoranthene	650	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
Pyrene	580	J	2100	240	ug/Kg	10	☼	8270D	Total/NA
Phenanthrene	410	J	2100	310	ug/Kg	10	☼	8270D	Total/NA
Arsenic	23.4		2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	736		0.63	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	9.2		0.25	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.5		0.63	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	1750		1.3	0.30	mg/Kg	1	☼	6010C	Total/NA
Selenium	3.4	J	5.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Silver	0.77		0.75	0.25	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample ID: SB-7 0-2FT (Continued)

Lab Sample ID: 480-197455-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	2.7		0.13	0.029	mg/Kg	5	☼	7471B	Total/NA

Client Sample ID: SB-11 0-2FT

Lab Sample ID: 480-197455-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	120	J	190	52	ug/Kg	1	☼	8260C	Total/NA
1,3,5-Trimethylbenzene	57	J	190	57	ug/Kg	1	☼	8260C	Total/NA
Benzene	41	J	190	36	ug/Kg	1	☼	8260C	Total/NA
Cyclohexane	470		190	42	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	65	J	190	55	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	1300		190	88	ug/Kg	1	☼	8260C	Total/NA
m,p-Xylene	240	J	380	100	ug/Kg	1	☼	8260C	Total/NA
o-Xylene	72	J	190	24	ug/Kg	1	☼	8260C	Total/NA
Toluene	3600		190	50	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	310	J	380	100	ug/Kg	1	☼	8260C	Total/NA
Arsenic	21.3		3.3	0.67	mg/Kg	1	☼	6010C	Total/NA
Barium	165	F1	0.83	0.18	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21	J	0.33	0.050	mg/Kg	1	☼	6010C	Total/NA
Chromium	21.5		0.83	0.33	mg/Kg	1	☼	6010C	Total/NA
Lead	34.2		1.7	0.40	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.0	J	6.7	0.67	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.25		0.033	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-12 6-8FT

Lab Sample ID: 480-197455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4700	J	10000	2900	ug/Kg	80	☼	8260C	Total/NA
2-Butanone (MEK)	87000		52000	31000	ug/Kg	80	☼	8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	23000	J	52000	3300	ug/Kg	80	☼	8260C	Total/NA
Cyclohexane	3900	J	10000	2300	ug/Kg	80	☼	8260C	Total/NA
Ethylbenzene	35000		10000	3000	ug/Kg	80	☼	8260C	Total/NA
Methylcyclohexane	39000		10000	4900	ug/Kg	80	☼	8260C	Total/NA
m,p-Xylene	180000		21000	5800	ug/Kg	80	☼	8260C	Total/NA
Naphthalene	5200	J	10000	3500	ug/Kg	80	☼	8260C	Total/NA
o-Xylene	57000		10000	1400	ug/Kg	80	☼	8260C	Total/NA
Toluene	730000		10000	2800	ug/Kg	80	☼	8260C	Total/NA
Xylenes, Total	240000		21000	5800	ug/Kg	80	☼	8260C	Total/NA
Acenaphthene	46	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	28	J	210	27	ug/Kg	1	☼	8270D	Total/NA
Anthracene	69	J	210	51	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180	J	210	21	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	120	J	210	30	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	220		210	33	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	86	J	210	22	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210		210	46	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	360		210	22	ug/Kg	1	☼	8270D	Total/NA
Fluorene	68	J	210	24	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	92	J	210	25	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	610		210	27	ug/Kg	1	☼	8270D	Total/NA
Pyrene	310		210	24	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	430		210	30	ug/Kg	1	☼	8270D	Total/NA
Arsenic	8.2		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-12 6-8FT (Continued)

Lab Sample ID: 480-197455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	64.1		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.3		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Lead	236		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.79	J	4.9	0.49	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.27		0.023	0.0053	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-9W

Lab Sample ID: 480-197455-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.55	J	1.0	0.38	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	14		10	1.3	ug/L	1		8260C	Total/NA
Acetone	7.4	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.96	J	1.0	0.19	ug/L	1		8260C	Total/NA
Chloroethane	3.5		1.0	0.32	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.26	J	1.0	0.16	ug/L	1		8260C	Total/NA
Methylene Chloride	0.92	J	1.0	0.44	ug/L	1		8260C	Total/NA
m,p-Xylene	2.0		2.0	0.66	ug/L	1		8260C	Total/NA
Toluene	20		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	2.0		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: SB-12W

Lab Sample ID: 480-197455-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9000	J	20000	2600	ug/L	2000		8260C	Total/NA
Cyclohexane	370	J	2000	360	ug/L	2000		8260C	Total/NA
Ethylbenzene	2400		2000	1500	ug/L	2000		8260C	Total/NA
Methylcyclohexane	1100	J	2000	320	ug/L	2000		8260C	Total/NA
m,p-Xylene	14000		4000	1300	ug/L	2000		8260C	Total/NA
o-Xylene	3900		2000	1500	ug/L	2000		8260C	Total/NA
Toluene	96000		2000	1000	ug/L	2000		8260C	Total/NA
Xylenes, Total	18000		4000	1300	ug/L	2000		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-1 4-5FT

Date Collected: 05/02/22 09:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-1

Matrix: Solid
Percent Solids: 69.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4900	720	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Acenaphthylene	ND		4900	630	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Anthracene	ND		4900	1200	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Benzo[a]anthracene	ND		4900	490	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Benzo[a]pyrene	ND		4900	720	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Benzo[b]fluoranthene	ND		4900	780	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Benzo[g,h,i]perylene	ND		4900	520	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Benzo[k]fluoranthene	ND		4900	630	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Chrysene	ND		4900	1100	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Dibenz(a,h)anthracene	ND		4900	860	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Fluoranthene	ND		4900	520	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Fluorene	ND		4900	580	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Indeno[1,2,3-cd]pyrene	ND		4900	600	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Naphthalene	ND		4900	630	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Pyrene	ND		4900	580	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20
Phenanthrene	ND		4900	720	ug/Kg	☼	05/04/22 15:54	05/05/22 20:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*S1-*	*54 - 120*	*05/04/22 15:54*	*05/05/22 20:54*	*20*
2-Fluorobiphenyl (Surr)	*83*		*60 - 120*	*05/04/22 15:54*	*05/05/22 20:54*	*20*
2-Fluorophenol (Surr)	*62*		*52 - 120*	*05/04/22 15:54*	*05/05/22 20:54*	*20*
Phenol-d5 (Surr)	*79*		*54 - 120*	*05/04/22 15:54*	*05/05/22 20:54*	*20*
p-Terphenyl-d14 (Surr)	*89*		*79 - 130*	*05/04/22 15:54*	*05/05/22 20:54*	*20*
Nitrobenzene-d5 (Surr)	*75*		*53 - 120*	*05/04/22 15:54*	*05/05/22 20:54*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12.5**		2.8	0.56	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Barium	**160**		0.69	0.15	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Cadmium	**0.99**		0.28	0.042	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Chromium	**19.5**		0.69	0.28	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Lead	**627**		1.4	0.33	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Selenium	**2.5**	**J**	5.6	0.56	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1
Silver	**0.54**	**J**	0.83	0.28	mg/Kg	☼	05/09/22 10:16	05/10/22 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.83**		0.030	0.0069	mg/Kg	☼	05/06/22 08:32	05/06/22 11:21	1

Client Sample ID: SB-5 0-2FT

Date Collected: 05/02/22 11:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-2

Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	65	J	190	29	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Acenaphthylene	44	J	190	25	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Anthracene	210		190	48	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Benzo[a]anthracene	640		190	19	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Benzo[a]pyrene	640		190	29	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Benzo[b]fluoranthene	900		190	31	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Benzo[g,h,i]perylene	400		190	21	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Benzo[k]fluoranthene	340		190	25	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Chrysene	670		190	43	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Dibenz(a,h)anthracene	130	J	190	34	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Fluoranthene	1200		190	21	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Fluorene	79	J	190	23	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Indeno[1,2,3-cd]pyrene	380		190	24	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Naphthalene	68	J	190	25	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Pyrene	1200		190	23	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1
Phenanthrene	900		190	29	ug/Kg	☼	05/04/22 15:54	05/05/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*54 - 120*	*05/04/22 15:54*	*05/05/22 21:18*	*1*
2-Fluorobiphenyl (Surr)	*86*		*60 - 120*	*05/04/22 15:54*	*05/05/22 21:18*	*1*
2-Fluorophenol (Surr)	*60*		*52 - 120*	*05/04/22 15:54*	*05/05/22 21:18*	*1*
Phenol-d5 (Surr)	*67*		*54 - 120*	*05/04/22 15:54*	*05/05/22 21:18*	*1*
p-Terphenyl-d14 (Surr)	*97*		*79 - 130*	*05/04/22 15:54*	*05/05/22 21:18*	*1*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*05/04/22 15:54*	*05/05/22 21:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.9		2.4	0.48	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Barium	105		0.60	0.13	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Cadmium	0.53		0.24	0.036	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Chromium	148		0.60	0.24	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Lead	173		1.2	0.29	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Selenium	3.9	J	4.8	0.48	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1
Silver	ND		0.71	0.24	mg/Kg	☼	05/09/22 10:16	05/10/22 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.023	0.0053	mg/Kg	☼	05/06/22 08:32	05/06/22 11:22	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-7 0-2FT
Date Collected: 05/02/22 13:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-3
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2100	310	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Acenaphthylene	ND		2100	270	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Anthracene	ND		2100	510	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Benzo[a]anthracene	ND		2100	210	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Benzo[a]pyrene	**460**	**J**	2100	310	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Benzo[b]fluoranthene	**450**	**J**	2100	330	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Benzo[g,h,i]perylene	ND		2100	220	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Benzo[k]fluoranthene	**320**	**J**	2100	270	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Chrysene	ND		2100	460	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Dibenz(a,h)anthracene	ND		2100	370	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Fluoranthene	**650**	**J**	2100	220	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Fluorene	ND		2100	240	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Indeno[1,2,3-cd]pyrene	ND		2100	260	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Naphthalene	ND		2100	270	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Pyrene	**580**	**J**	2100	240	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10
Phenanthrene	**410**	**J**	2100	310	ug/Kg	☼	05/04/22 15:54	05/05/22 21:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*109*		*54 - 120*	*05/04/22 15:54*	*05/05/22 21:42*	*10*
2-Fluorobiphenyl (Surr)	*90*		*60 - 120*	*05/04/22 15:54*	*05/05/22 21:42*	*10*
2-Fluorophenol (Surr)	*71*		*52 - 120*	*05/04/22 15:54*	*05/05/22 21:42*	*10*
Phenol-d5 (Surr)	*68*		*54 - 120*	*05/04/22 15:54*	*05/05/22 21:42*	*10*
p-Terphenyl-d14 (Surr)	*81*		*79 - 130*	*05/04/22 15:54*	*05/05/22 21:42*	*10*
Nitrobenzene-d5 (Surr)	*89*		*53 - 120*	*05/04/22 15:54*	*05/05/22 21:42*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**23.4**		2.5	0.50	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Barium	**736**		0.63	0.14	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Cadmium	**9.2**		0.25	0.038	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Chromium	**11.5**		0.63	0.25	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Lead	**1750**		1.3	0.30	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Selenium	**3.4**	**J**	5.0	0.50	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1
Silver	**0.77**		0.75	0.25	mg/Kg	☼	05/09/22 10:16	05/10/22 16:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.7**		0.13	0.029	mg/Kg	☼	05/06/22 08:32	05/06/22 12:41	5

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-11 0-2FT
Date Collected: 05/02/22 14:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-4
Matrix: Solid
Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		190	52	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,1,2,2-Tetrachloroethane	ND		190	31	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		190	94	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,1,2-Trichloroethane	ND		190	39	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,1-Dichloroethane	ND		190	58	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,1-Dichloroethene	ND		190	65	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2,4-Trichlorobenzene	ND		190	71	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2,4-Trimethylbenzene	**120**	**J**	190	52	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2-Dibromo-3-Chloropropane	ND		190	94	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2-Dichlorobenzene	ND		190	48	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2-Dichloroethane	ND		190	77	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2-Dichloropropane	ND		190	30	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,3,5-Trimethylbenzene	**57**	**J**	190	57	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,3-Dichlorobenzene	ND		190	50	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,4-Dichlorobenzene	ND		190	26	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
2-Butanone (MEK)	ND		940	560	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
2-Hexanone	ND		940	390	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
4-Isopropyltoluene	ND		190	63	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		940	60	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Acetone	ND		940	770	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Benzene	**41**	**J**	190	36	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Bromoform	ND		190	94	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Bromomethane	ND		190	41	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Carbon disulfide	ND		190	86	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Carbon tetrachloride	ND		190	48	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Chlorobenzene	ND		190	25	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Dibromochloromethane	ND		190	91	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Chloroethane	ND		190	39	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Chloroform	ND		190	130	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Chloromethane	ND		190	45	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
cis-1,2-Dichloroethene	ND		190	52	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Cyclohexane	**470**		190	42	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Bromodichloromethane	ND		190	38	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Dichlorodifluoromethane	ND		190	82	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Ethylbenzene	**65**	**J**	190	55	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
1,2-Dibromoethane	ND		190	33	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Isopropylbenzene	ND		190	28	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Methyl acetate	ND		940	89	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Methyl tert-butyl ether	ND		190	71	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Methylcyclohexane	**1300**		190	88	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Methylene Chloride	ND		190	37	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
m,p-Xylene	**240**	**J**	380	100	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Naphthalene	ND		190	63	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
n-Butylbenzene	ND		190	55	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
N-Propylbenzene	ND		190	49	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
o-Xylene	**72**	**J**	190	24	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
sec-Butylbenzene	ND		190	69	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Tetrachloroethene	ND		190	25	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Toluene	**3600**		190	50	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-11 0-2FT
Date Collected: 05/02/22 14:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-4
Matrix: Solid
Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		190	44	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
trans-1,3-Dichloropropene	ND		190	18	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Trichloroethene	ND		190	52	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Trichlorofluoromethane	ND		190	88	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Vinyl chloride	ND		190	63	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Xylenes, Total	**310**	**J**	380	100	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
cis-1,3-Dichloropropene	ND		190	45	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
Styrene	ND		190	45	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1
tert-Butylbenzene	ND		190	52	ug/Kg	☼	05/04/22 16:54	05/05/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*53 - 146*	*05/04/22 16:54*	*05/05/22 16:41*	*1*
4-Bromofluorobenzene (Surr)	*108*		*49 - 148*	*05/04/22 16:54*	*05/05/22 16:41*	*1*
Toluene-d8 (Surr)	*117*		*50 - 149*	*05/04/22 16:54*	*05/05/22 16:41*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*05/04/22 16:54*	*05/05/22 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		270	40	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Acenaphthylene	ND		270	35	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Anthracene	ND		270	67	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Benzo[a]anthracene	ND		270	27	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Benzo[a]pyrene	ND		270	40	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Benzo[b]fluoranthene	ND		270	43	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Benzo[g,h,i]perylene	ND		270	29	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Benzo[k]fluoranthene	ND		270	35	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Chrysene	ND		270	60	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Dibenz(a,h)anthracene	ND		270	48	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Fluoranthene	ND		270	29	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Fluorene	ND		270	32	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Indeno[1,2,3-cd]pyrene	ND		270	33	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Naphthalene	ND		270	35	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Pyrene	ND		270	32	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1
Phenanthrene	ND		270	40	ug/Kg	☼	05/04/22 15:54	05/05/22 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*21*	*S1-*	*54 - 120*	*05/04/22 15:54*	*05/05/22 22:30*	*1*
2-Fluorobiphenyl (Surr)	*83*		*60 - 120*	*05/04/22 15:54*	*05/05/22 22:30*	*1*
2-Fluorophenol (Surr)	*55*		*52 - 120*	*05/04/22 15:54*	*05/05/22 22:30*	*1*
Phenol-d5 (Surr)	*71*		*54 - 120*	*05/04/22 15:54*	*05/05/22 22:30*	*1*
p-Terphenyl-d14 (Surr)	*69*	*S1-*	*79 - 130*	*05/04/22 15:54*	*05/05/22 22:30*	*1*
Nitrobenzene-d5 (Surr)	*79*		*53 - 120*	*05/04/22 15:54*	*05/05/22 22:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**21.3**		3.3	0.67	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1
Barium	**165**	**F1**	0.83	0.18	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1
Cadmium	**0.21**	**J**	0.33	0.050	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1
Chromium	**21.5**		0.83	0.33	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1
Lead	**34.2**		1.7	0.40	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-11 0-2FT
Date Collected: 05/02/22 14:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-4
Matrix: Solid
Percent Solids: 62.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.0	J	6.7	0.67	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1
Silver	ND		1.0	0.33	mg/Kg	☼	05/09/22 10:16	05/10/22 16:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.033	0.0075	mg/Kg	☼	05/06/22 08:32	05/06/22 11:25	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-12 6-8FT
Date Collected: 05/02/22 15:25
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-5
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10000	2900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,1,2,2-Tetrachloroethane	ND		10000	1700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10000	5200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,1,2-Trichloroethane	ND		10000	2200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,1-Dichloroethane	ND		10000	3200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,1-Dichloroethene	ND		10000	3600	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2,4-Trichlorobenzene	ND		10000	3900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2,4-Trimethylbenzene	**4700**	**J**	10000	2900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2-Dibromo-3-Chloropropane	ND		10000	5200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2-Dichlorobenzene	ND		10000	2700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2-Dichloroethane	ND		10000	4300	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2-Dichloropropane	ND		10000	1700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,3,5-Trimethylbenzene	ND		10000	3100	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,3-Dichlorobenzene	ND		10000	2800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,4-Dichlorobenzene	ND		10000	1500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
2-Butanone (MEK)	**87000**		52000	31000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
2-Hexanone	ND		52000	21000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
4-Isopropyltoluene	ND		10000	3500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
4-Methyl-2-pentanone (MIBK)	**23000**	**J**	52000	3300	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Acetone	ND		52000	43000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Benzene	ND		10000	2000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Bromoform	ND		10000	5200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Bromomethane	ND		10000	2300	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Carbon disulfide	ND		10000	4700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Carbon tetrachloride	ND		10000	2700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Chlorobenzene	ND		10000	1400	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Dibromochloromethane	ND		10000	5000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Chloroethane	ND		10000	2200	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Chloroform	ND		10000	7100	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Chloromethane	ND		10000	2500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
cis-1,2-Dichloroethene	ND		10000	2900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Cyclohexane	**3900**	**J**	10000	2300	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Bromodichloromethane	ND		10000	2100	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Dichlorodifluoromethane	ND		10000	4500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Ethylbenzene	**35000**		10000	3000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
1,2-Dibromoethane	ND		10000	1800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Isopropylbenzene	ND		10000	1600	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Methyl acetate	ND		52000	5000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Methyl tert-butyl ether	ND		10000	3900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Methylcyclohexane	**39000**		10000	4900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Methylene Chloride	ND		10000	2100	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
m,p-Xylene	**180000**		21000	5800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Naphthalene	**5200**	**J**	10000	3500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
n-Butylbenzene	ND		10000	3000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
N-Propylbenzene	ND		10000	2700	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
o-Xylene	**57000**		10000	1400	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
sec-Butylbenzene	ND		10000	3800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Tetrachloroethene	ND		10000	1400	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Toluene	**730000**		10000	2800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-12 6-8FT
Date Collected: 05/02/22 15:25
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-5
Matrix: Solid
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		10000	2500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
trans-1,3-Dichloropropene	ND		10000	1000	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Trichloroethene	ND		10000	2900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Trichlorofluoromethane	ND		10000	4900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Vinyl chloride	ND		10000	3500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Xylenes, Total	**240000**		21000	5800	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
cis-1,3-Dichloropropene	ND		10000	2500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
Styrene	ND		10000	2500	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80
tert-Butylbenzene	ND		10000	2900	ug/Kg	☼	05/04/22 16:54	05/05/22 15:55	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*53 - 146*	*05/04/22 16:54*	*05/05/22 15:55*	*80*
4-Bromofluorobenzene (Surr)	*109*		*49 - 148*	*05/04/22 16:54*	*05/05/22 15:55*	*80*
Toluene-d8 (Surr)	*115*		*50 - 149*	*05/04/22 16:54*	*05/05/22 15:55*	*80*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*05/04/22 16:54*	*05/05/22 15:55*	*80*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**46**	**J**	210	30	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Acenaphthylene	**28**	**J**	210	27	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Anthracene	**69**	**J**	210	51	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Benzo[a]anthracene	**180**	**J**	210	21	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Benzo[a]pyrene	**120**	**J**	210	30	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Benzo[b]fluoranthene	**220**		210	33	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Benzo[g,h,i]perylene	**86**	**J**	210	22	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Benzo[k]fluoranthene	ND		210	27	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Chrysene	**210**		210	46	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Fluoranthene	**360**		210	22	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Fluorene	**68**	**J**	210	24	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Indeno[1,2,3-cd]pyrene	**92**	**J**	210	25	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Naphthalene	**610**		210	27	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Pyrene	**310**		210	24	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1
Phenanthrene	**430**		210	30	ug/Kg	☼	05/04/22 15:54	05/05/22 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*54 - 120*	*05/04/22 15:54*	*05/05/22 22:06*	*1*
2-Fluorobiphenyl (Surr)	*87*		*60 - 120*	*05/04/22 15:54*	*05/05/22 22:06*	*1*
2-Fluorophenol (Surr)	*63*		*52 - 120*	*05/04/22 15:54*	*05/05/22 22:06*	*1*
Phenol-d5 (Surr)	*72*		*54 - 120*	*05/04/22 15:54*	*05/05/22 22:06*	*1*
p-Terphenyl-d14 (Surr)	*84*		*79 - 130*	*05/04/22 15:54*	*05/05/22 22:06*	*1*
Nitrobenzene-d5 (Surr)	*81*		*53 - 120*	*05/04/22 15:54*	*05/05/22 22:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.2**		2.5	0.49	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1
Barium	**64.1**		0.62	0.14	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1
Cadmium	**0.22**	**J**	0.25	0.037	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1
Chromium	**8.3**		0.62	0.25	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1
Lead	**236**		1.2	0.30	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1

Client Sample ID: SB-12 6-8FT
Lab Sample ID: 480-197455-5

Date Collected: 05/02/22 15:25
Matrix: Solid

Date Received: 05/03/22 16:45
Percent Solids: 81.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.79**	**J**	4.9	0.49	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1
Silver	ND		0.74	0.25	mg/Kg	☼	05/09/22 10:16	05/10/22 17:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.023	0.0053	mg/Kg	☼	05/06/22 08:32	05/06/22 11:26	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-9W

Date Collected: 05/02/22 15:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 13:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/06/22 13:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/06/22 13:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/06/22 13:29	1
1,1-Dichloroethane	**0.55**	**J**	1.0	0.38	ug/L			05/06/22 13:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/06/22 13:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/06/22 13:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 13:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/06/22 13:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/06/22 13:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/06/22 13:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/06/22 13:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 13:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/06/22 13:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/06/22 13:29	1
2-Butanone (MEK)	**14**		10	1.3	ug/L			05/06/22 13:29	1
2-Hexanone	ND		5.0	1.2	ug/L			05/06/22 13:29	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			05/06/22 13:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/06/22 13:29	1
Acetone	**7.4**	**J**	10	3.0	ug/L			05/06/22 13:29	1
Benzene	**1.8**		1.0	0.41	ug/L			05/06/22 13:29	1
Bromoform	ND		1.0	0.26	ug/L			05/06/22 13:29	1
Bromomethane	ND		1.0	0.69	ug/L			05/06/22 13:29	1
Carbon disulfide	**0.96**	**J**	1.0	0.19	ug/L			05/06/22 13:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/06/22 13:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/22 13:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/06/22 13:29	1
Chloroethane	**3.5**		1.0	0.32	ug/L			05/06/22 13:29	1
Chloroform	ND		1.0	0.34	ug/L			05/06/22 13:29	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 13:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/06/22 13:29	1
Cyclohexane	ND		1.0	0.18	ug/L			05/06/22 13:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/06/22 13:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/06/22 13:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 13:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/06/22 13:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/06/22 13:29	1
Methyl acetate	ND		2.5	1.3	ug/L			05/06/22 13:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 13:29	1
Methylcyclohexane	**0.26**	**J**	1.0	0.16	ug/L			05/06/22 13:29	1
Methylene Chloride	**0.92**	**J**	1.0	0.44	ug/L			05/06/22 13:29	1
m,p-Xylene	**2.0**		2.0	0.66	ug/L			05/06/22 13:29	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 13:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 13:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 13:29	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 13:29	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			05/06/22 13:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/22 13:29	1
Toluene	**20**		1.0	0.51	ug/L			05/06/22 13:29	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-9W
Date Collected: 05/02/22 15:00
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/22 13:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/06/22 13:29	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/22 13:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/06/22 13:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/06/22 13:29	1
Xylenes, Total	**2.0**		2.0	0.66	ug/L			05/06/22 13:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/06/22 13:29	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 13:29	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			05/06/22 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/06/22 13:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*05/06/22 13:29*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/06/22 13:29*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*05/06/22 13:29*	*1*

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-12W

Date Collected: 05/02/22 15:15
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2000	1600	ug/L			05/06/22 13:52	2000
1,1,2,2-Tetrachloroethane	ND		2000	420	ug/L			05/06/22 13:52	2000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2000	620	ug/L			05/06/22 13:52	2000
1,1,2-Trichloroethane	ND		2000	460	ug/L			05/06/22 13:52	2000
1,1-Dichloroethane	ND		2000	760	ug/L			05/06/22 13:52	2000
1,1-Dichloroethene	ND		2000	580	ug/L			05/06/22 13:52	2000
1,2,4-Trichlorobenzene	ND		2000	820	ug/L			05/06/22 13:52	2000
1,2,4-Trimethylbenzene	ND		2000	1500	ug/L			05/06/22 13:52	2000
1,2-Dibromo-3-Chloropropane	ND		2000	780	ug/L			05/06/22 13:52	2000
1,2-Dichlorobenzene	ND		2000	1600	ug/L			05/06/22 13:52	2000
1,2-Dichloroethane	ND		2000	420	ug/L			05/06/22 13:52	2000
1,2-Dichloropropane	ND		2000	1400	ug/L			05/06/22 13:52	2000
1,3,5-Trimethylbenzene	ND		2000	1500	ug/L			05/06/22 13:52	2000
1,3-Dichlorobenzene	ND		2000	1600	ug/L			05/06/22 13:52	2000
1,4-Dichlorobenzene	ND		2000	1700	ug/L			05/06/22 13:52	2000
2-Butanone (MEK)	**9000**	**J**	20000	2600	ug/L			05/06/22 13:52	2000
2-Hexanone	ND		10000	2500	ug/L			05/06/22 13:52	2000
4-Isopropyltoluene	ND		2000	620	ug/L			05/06/22 13:52	2000
4-Methyl-2-pentanone (MIBK)	ND		10000	4200	ug/L			05/06/22 13:52	2000
Acetone	ND		20000	6000	ug/L			05/06/22 13:52	2000
Benzene	ND		2000	820	ug/L			05/06/22 13:52	2000
Bromoform	ND		2000	520	ug/L			05/06/22 13:52	2000
Bromomethane	ND		2000	1400	ug/L			05/06/22 13:52	2000
Carbon disulfide	ND		2000	380	ug/L			05/06/22 13:52	2000
Carbon tetrachloride	ND		2000	540	ug/L			05/06/22 13:52	2000
Chlorobenzene	ND		2000	1500	ug/L			05/06/22 13:52	2000
Dibromochloromethane	ND		2000	640	ug/L			05/06/22 13:52	2000
Chloroethane	ND		2000	640	ug/L			05/06/22 13:52	2000
Chloroform	ND		2000	680	ug/L			05/06/22 13:52	2000
Chloromethane	ND		2000	700	ug/L			05/06/22 13:52	2000
cis-1,2-Dichloroethene	ND		2000	1600	ug/L			05/06/22 13:52	2000
Cyclohexane	**370**	**J**	2000	360	ug/L			05/06/22 13:52	2000
Bromodichloromethane	ND		2000	780	ug/L			05/06/22 13:52	2000
Dichlorodifluoromethane	ND		2000	1400	ug/L			05/06/22 13:52	2000
Ethylbenzene	**2400**		2000	1500	ug/L			05/06/22 13:52	2000
1,2-Dibromoethane	ND		2000	1500	ug/L			05/06/22 13:52	2000
Isopropylbenzene	ND		2000	1600	ug/L			05/06/22 13:52	2000
Methyl acetate	ND		5000	2600	ug/L			05/06/22 13:52	2000
Methyl tert-butyl ether	ND		2000	320	ug/L			05/06/22 13:52	2000
Methylcyclohexane	**1100**	**J**	2000	320	ug/L			05/06/22 13:52	2000
Methylene Chloride	ND		2000	880	ug/L			05/06/22 13:52	2000
m,p-Xylene	**14000**		4000	1300	ug/L			05/06/22 13:52	2000
Naphthalene	ND		2000	860	ug/L			05/06/22 13:52	2000
n-Butylbenzene	ND		2000	1300	ug/L			05/06/22 13:52	2000
N-Propylbenzene	ND		2000	1400	ug/L			05/06/22 13:52	2000
o-Xylene	**3900**		2000	1500	ug/L			05/06/22 13:52	2000
sec-Butylbenzene	ND		2000	1500	ug/L			05/06/22 13:52	2000
Tetrachloroethene	ND		2000	720	ug/L			05/06/22 13:52	2000
Toluene	**96000**		2000	1000	ug/L			05/06/22 13:52	2000

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-12W
Date Collected: 05/02/22 15:15
Date Received: 05/03/22 16:45

Lab Sample ID: 480-197455-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			05/06/22 13:52	2000
trans-1,3-Dichloropropene	ND		2000	740	ug/L			05/06/22 13:52	2000
Trichloroethene	ND		2000	920	ug/L			05/06/22 13:52	2000
Trichlorofluoromethane	ND		2000	1800	ug/L			05/06/22 13:52	2000
Vinyl chloride	ND		2000	1800	ug/L			05/06/22 13:52	2000
Xylenes, Total	**18000**		4000	1300	ug/L			05/06/22 13:52	2000
cis-1,3-Dichloropropene	ND		2000	720	ug/L			05/06/22 13:52	2000
Styrene	ND		2000	1500	ug/L			05/06/22 13:52	2000
tert-Butylbenzene	ND		2000	1600	ug/L			05/06/22 13:52	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*05/06/22 13:52*	*2000*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/06/22 13:52*	*2000*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/06/22 13:52*	*2000*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*05/06/22 13:52*	*2000*

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-197455-4	SB-11 0-2FT	113	108	117	100
480-197455-5	SB-12 6-8FT	107	109	115	99
LCS 480-624598/1-A	Lab Control Sample	95	103	102	100
MB 480-624598/2-A	Method Blank	108	108	112	101

Surrogate Legend

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

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)
480-197455-6	SB-9W	102	97	104	96
480-197455-7	SB-12W	97	95	101	95
LCS 480-624854/5	Lab Control Sample	104	101	111	106
MB 480-624854/7	Method Blank	106	100	100	108

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	PHL	TPHd14	NBZ
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(54-120)	(79-130)	(53-120)
480-197455-1	SB-1 4-5FT	0 S1-	83	62	79	89	75
480-197455-2	SB-5 0-2FT	108	86	60	67	97	76
480-197455-3	SB-7 0-2FT	109	90	71	68	81	89
480-197455-4	SB-11 0-2FT	21 S1-	83	55	71	69 S1-	79
480-197455-5	SB-12 6-8FT	88	87	63	72	84	81
LCS 480-624575/2-A	Lab Control Sample	104	88	80	79	109	85
MB 480-624575/1-A	Method Blank	95	100	79	88	112	96

Surrogate Legend

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

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

Lab Sample ID: MB 480-624598/2-A
Matrix: Solid
Analysis Batch: 624675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,1-Dichloroethane	ND		100	31	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,1-Dichloroethene	ND		100	35	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2-Dichloroethane	ND		100	41	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2-Dichloropropane	ND		100	16	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
2-Butanone (MEK)	ND		500	300	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
2-Hexanone	ND		500	210	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
4-Isopropyltoluene	ND		100	34	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Acetone	ND		500	410	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Benzene	ND		100	19	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Bromoform	ND		100	50	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Bromomethane	ND		100	22	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Carbon disulfide	ND		100	46	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Carbon tetrachloride	ND		100	26	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Chlorobenzene	ND		100	13	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Dibromochloromethane	ND		100	48	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Chloroethane	ND		100	21	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Chloroform	ND		100	69	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Chloromethane	ND		100	24	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Cyclohexane	ND		100	22	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Bromodichloromethane	ND		100	20	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Ethylbenzene	ND		100	29	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
1,2-Dibromoethane	ND		100	18	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Isopropylbenzene	ND		100	15	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Methyl acetate	ND		500	48	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Methylcyclohexane	ND		100	47	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Methylene Chloride	ND		100	20	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
m,p-Xylene	ND		200	55	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Naphthalene	ND		100	34	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
n-Butylbenzene	ND		100	29	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
N-Propylbenzene	ND		100	26	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
o-Xylene	ND		100	13	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
sec-Butylbenzene	ND		100	37	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Tetrachloroethene	ND		100	13	ug/Kg		05/04/22 16:54	05/05/22 13:24	1

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

Lab Sample ID: MB 480-624598/2-A
Matrix: Solid
Analysis Batch: 624675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		100	27	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Trichloroethene	ND		100	28	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Trichlorofluoromethane	ND		100	47	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Vinyl chloride	ND		100	34	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Xylenes, Total	ND		200	55	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
Styrene	ND		100	24	ug/Kg		05/04/22 16:54	05/05/22 13:24	1
tert-Butylbenzene	ND		100	28	ug/Kg		05/04/22 16:54	05/05/22 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*	*05/04/22 16:54*	*05/05/22 13:24*	*1*
4-Bromofluorobenzene (Surr)	*108*		*49 - 148*	*05/04/22 16:54*	*05/05/22 13:24*	*1*
Toluene-d8 (Surr)	*112*		*50 - 149*	*05/04/22 16:54*	*05/05/22 13:24*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*05/04/22 16:54*	*05/05/22 13:24*	*1*

Lab Sample ID: LCS 480-624598/1-A
Matrix: Solid
Analysis Batch: 624675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	2500	2530		ug/Kg		101	68 - 130
1,1,2,2-Tetrachloroethane	2500	2270		ug/Kg		91	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2710		ug/Kg		109	10 - 179
1,1,2-Trichloroethane	2500	2460		ug/Kg		99	80 - 120
1,1-Dichloroethane	2500	2560		ug/Kg		103	78 - 121
1,1-Dichloroethene	2500	2520		ug/Kg		101	48 - 133
1,2,4-Trichlorobenzene	2500	2600		ug/Kg		104	70 - 140
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		104	77 - 127
1,2-Dibromo-3-Chloropropane	2500	1950		ug/Kg		78	56 - 122
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	78 - 125
1,2-Dichloroethane	2500	2310		ug/Kg		93	74 - 127
1,2-Dichloropropane	2500	2540		ug/Kg		101	80 - 120
1,3,5-Trimethylbenzene	2500	2670		ug/Kg		107	79 - 120
1,3-Dichlorobenzene	2500	2580		ug/Kg		103	80 - 120
1,4-Dichlorobenzene	2500	2460		ug/Kg		98	80 - 120
2-Butanone (MEK)	12500	10300		ug/Kg		82	54 - 149
2-Hexanone	12500	11900		ug/Kg		96	59 - 127
4-Isopropyltoluene	2500	2610		ug/Kg		104	80 - 120
4-Methyl-2-pentanone (MIBK)	12500	11700		ug/Kg		94	74 - 120
Acetone	12500	8680		ug/Kg		69	47 - 141
Benzene	2500	2590		ug/Kg		104	77 - 125
Bromoform	2500	2270		ug/Kg		91	48 - 125
Bromomethane	2500	1930		ug/Kg		77	39 - 149
Carbon disulfide	2500	2610		ug/Kg		104	40 - 136
Carbon tetrachloride	2500	2520		ug/Kg		101	54 - 135
Chlorobenzene	2500	2520		ug/Kg		101	76 - 126

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

Lab Sample ID: LCS 480-624598/1-A
Matrix: Solid
Analysis Batch: 624675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromochloromethane	2500	2280		ug/Kg		91	64 - 120
Chloroethane	2500	2080		ug/Kg		83	23 - 150
Chloroform	2500	2410		ug/Kg		96	78 - 120
Chloromethane	2500	2390		ug/Kg		96	61 - 124
cis-1,2-Dichloroethene	2500	2470		ug/Kg		99	79 - 124
Cyclohexane	2500	2720		ug/Kg		109	49 - 129
Bromodichloromethane	2500	2410		ug/Kg		96	71 - 121
Dichlorodifluoromethane	2500	2490		ug/Kg		99	10 - 150
Ethylbenzene	2500	2610		ug/Kg		105	78 - 124
1,2-Dibromoethane	2500	2480		ug/Kg		99	80 - 120
Isopropylbenzene	2500	2600		ug/Kg		104	76 - 120
Methyl acetate	5000	4100		ug/Kg		82	71 - 123
Methyl tert-butyl ether	2500	2420		ug/Kg		97	67 - 137
Methylcyclohexane	2500	2810		ug/Kg		113	50 - 130
Methylene Chloride	2500	2410		ug/Kg		96	75 - 118
m,p-Xylene	2500	2540		ug/Kg		102	77 - 125
Naphthalene	2500	2410		ug/Kg		97	65 - 142
n-Butylbenzene	2500	2640		ug/Kg		106	80 - 120
N-Propylbenzene	2500	2580		ug/Kg		103	76 - 120
o-Xylene	2500	2590		ug/Kg		104	80 - 124
sec-Butylbenzene	2500	2630		ug/Kg		105	79 - 120
Tetrachloroethene	2500	2610		ug/Kg		105	73 - 133
Toluene	2500	2580		ug/Kg		103	75 - 124
trans-1,2-Dichloroethene	2500	2560		ug/Kg		102	74 - 129
trans-1,3-Dichloropropene	2500	2390		ug/Kg		96	73 - 120
Trichloroethene	2500	2620		ug/Kg		105	75 - 131
Trichlorofluoromethane	2500	2630		ug/Kg		105	29 - 158
Vinyl chloride	2500	2440		ug/Kg		98	59 - 124
cis-1,3-Dichloropropene	2500	2460		ug/Kg		98	75 - 121
Styrene	2500	2580		ug/Kg		103	80 - 120
tert-Butylbenzene	2500	2650		ug/Kg		106	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*53 - 146*
4-Bromofluorobenzene (Surr)	*103*		*49 - 148*
Toluene-d8 (Surr)	*102*		*50 - 149*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Lab Sample ID: MB 480-624854/7
Matrix: Water
Analysis Batch: 624854

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/06/22 12:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/06/22 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/06/22 12:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/06/22 12:27	1

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

Lab Sample ID: MB 480-624854/7
Matrix: Water
Analysis Batch: 624854

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/06/22 12:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/06/22 12:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 12:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/06/22 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/06/22 12:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/06/22 12:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/06/22 12:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/06/22 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/06/22 12:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/06/22 12:27	1
2-Hexanone	ND		5.0	1.2	ug/L			05/06/22 12:27	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			05/06/22 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/06/22 12:27	1
Acetone	ND		10	3.0	ug/L			05/06/22 12:27	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 12:27	1
Bromoform	ND		1.0	0.26	ug/L			05/06/22 12:27	1
Bromomethane	ND		1.0	0.69	ug/L			05/06/22 12:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/06/22 12:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/06/22 12:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/06/22 12:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/06/22 12:27	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/22 12:27	1
Chloroform	ND		1.0	0.34	ug/L			05/06/22 12:27	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/06/22 12:27	1
Cyclohexane	ND		1.0	0.18	ug/L			05/06/22 12:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/06/22 12:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/06/22 12:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 12:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/06/22 12:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/06/22 12:27	1
Methyl acetate	ND		2.5	1.3	ug/L			05/06/22 12:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 12:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/06/22 12:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/06/22 12:27	1
m,p-Xylene	ND		2.0	0.66	ug/L			05/06/22 12:27	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 12:27	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 12:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 12:27	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 12:27	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			05/06/22 12:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/06/22 12:27	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/06/22 12:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/06/22 12:27	1
Trichloroethene	ND		1.0	0.46	ug/L			05/06/22 12:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/06/22 12:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/06/22 12:27	1

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

Lab Sample ID: MB 480-624854/7
Matrix: Water
Analysis Batch: 624854

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/06/22 12:27	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 12:27	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			05/06/22 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/06/22 12:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/06/22 12:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/06/22 12:27*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/06/22 12:27*	*1*

Lab Sample ID: LCS 480-624854/5
Matrix: Water
Analysis Batch: 624854

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	28.7		ug/L		115	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5		ug/L		94	61 - 148
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	25.6		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	22.9		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	79 - 122
1,2,4-Trimethylbenzene	25.0	28.2		ug/L		113	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	30.8		ug/L		123	56 - 134
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 124
1,2-Dichloroethane	25.0	26.0		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	24.8		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	25.0	28.3		ug/L		113	77 - 121
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	26.8		ug/L		107	80 - 120
2-Butanone (MEK)	125	154		ug/L		124	57 - 140
2-Hexanone	125	149		ug/L		119	65 - 127
4-Isopropyltoluene	25.0	27.4		ug/L		110	73 - 120
4-Methyl-2-pentanone (MIBK)	125	144		ug/L		115	71 - 125
Acetone	125	150		ug/L		120	56 - 142
Benzene	25.0	25.3		ug/L		101	71 - 124
Bromoform	25.0	30.3		ug/L		121	61 - 132
Bromomethane	25.0	26.9		ug/L		108	55 - 144
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	25.9		ug/L		104	80 - 120
Dibromochloromethane	25.0	24.9		ug/L		100	75 - 125
Chloroethane	25.0	28.8		ug/L		115	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	25.5		ug/L		102	68 - 124
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	74 - 124
Cyclohexane	25.0	24.6		ug/L		99	59 - 135

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

Lab Sample ID: LCS 480-624854/5
Matrix: Water
Analysis Batch: 624854

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	25.0	27.4		ug/L		110	80 - 122
Dichlorodifluoromethane	25.0	21.1		ug/L		85	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
1,2-Dibromoethane	25.0	27.6		ug/L		110	77 - 120
Isopropylbenzene	25.0	27.7		ug/L		111	77 - 122
Methyl acetate	50.0	53.8		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	25.8		ug/L		103	77 - 120
Methylcyclohexane	25.0	24.0		ug/L		96	68 - 134
Methylene Chloride	25.0	25.6		ug/L		102	75 - 124
m,p-Xylene	25.0	26.2		ug/L		105	76 - 122
Naphthalene	25.0	29.0		ug/L		116	66 - 125
n-Butylbenzene	25.0	27.7		ug/L		111	71 - 128
N-Propylbenzene	25.0	27.4		ug/L		110	75 - 127
o-Xylene	25.0	26.0		ug/L		104	76 - 122
sec-Butylbenzene	25.0	28.0		ug/L		112	74 - 127
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	26.1		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	24.2		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	27.6		ug/L		110	62 - 150
Vinyl chloride	25.0	25.9		ug/L		104	65 - 133
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	74 - 124
Styrene	25.0	26.4		ug/L		106	80 - 120
tert-Butylbenzene	25.0	26.8		ug/L		107	75 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

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

Lab Sample ID: MB 480-624575/1-A
Matrix: Solid
Analysis Batch: 624716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	24	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Acenaphthylene	ND		170	21	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Anthracene	ND		170	41	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Benzo[a]anthracene	ND		170	17	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Benzo[a]pyrene	ND		170	24	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Chrysene	ND		170	37	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		05/04/22 15:54	05/05/22 15:15	1

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

Lab Sample ID: MB 480-624575/1-A
Matrix: Solid
Analysis Batch: 624716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		170	18	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Fluorene	ND		170	19	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Naphthalene	ND		170	21	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Pyrene	ND		170	19	ug/Kg		05/04/22 15:54	05/05/22 15:15	1
Phenanthrene	ND		170	24	ug/Kg		05/04/22 15:54	05/05/22 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*54 - 120*	*05/04/22 15:54*	*05/05/22 15:15*	*1*
2-Fluorobiphenyl (Surr)	*100*		*60 - 120*	*05/04/22 15:54*	*05/05/22 15:15*	*1*
2-Fluorophenol (Surr)	*79*		*52 - 120*	*05/04/22 15:54*	*05/05/22 15:15*	*1*
Phenol-d5 (Surr)	*88*		*54 - 120*	*05/04/22 15:54*	*05/05/22 15:15*	*1*
p-Terphenyl-d14 (Surr)	*112*		*79 - 130*	*05/04/22 15:54*	*05/05/22 15:15*	*1*
Nitrobenzene-d5 (Surr)	*96*		*53 - 120*	*05/04/22 15:54*	*05/05/22 15:15*	*1*

Lab Sample ID: LCS 480-624575/2-A
Matrix: Solid
Analysis Batch: 624716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1640	1530		ug/Kg		93	62 - 120
Acenaphthylene	1640	1370		ug/Kg		84	58 - 121
Anthracene	1640	1630		ug/Kg		99	62 - 120
Benzo[a]anthracene	1640	1500		ug/Kg		91	65 - 120
Benzo[a]pyrene	1640	1500		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1640	1660		ug/Kg		101	64 - 120
Benzo[g,h,i]perylene	1640	1650		ug/Kg		101	45 - 145
Benzo[k]fluoranthene	1640	1620		ug/Kg		99	65 - 120
Chrysene	1640	1540		ug/Kg		94	64 - 120
Dibenz(a,h)anthracene	1640	1700		ug/Kg		104	54 - 132
Fluoranthene	1640	1450		ug/Kg		88	62 - 120
Fluorene	1640	1440		ug/Kg		88	63 - 120
Indeno[1,2,3-cd]pyrene	1640	1680		ug/Kg		103	56 - 134
Naphthalene	1640	1410		ug/Kg		86	55 - 120
Pyrene	1640	1840		ug/Kg		113	61 - 133
Phenanthrene	1640	1590		ug/Kg		97	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*54 - 120*
2-Fluorobiphenyl (Surr)	*88*		*60 - 120*
2-Fluorophenol (Surr)	*80*		*52 - 120*
Phenol-d5 (Surr)	*79*		*54 - 120*
p-Terphenyl-d14 (Surr)	*109*		*79 - 130*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-624857/1-A
Matrix: Solid
Analysis Batch: 625462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.9	0.38	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Barium	ND		0.47	0.10	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Cadmium	ND		0.19	0.028	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Chromium	ND		0.47	0.19	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Lead	ND		0.94	0.23	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Selenium	ND		3.8	0.38	mg/Kg		05/09/22 10:16	05/10/22 16:19	1
Silver	ND		0.57	0.19	mg/Kg		05/09/22 10:16	05/10/22 16:19	1

Lab Sample ID: LCSSRM 480-624857/2-A
Matrix: Solid
Analysis Batch: 625462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624857

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	156	136.8		mg/Kg		87.7	69.9 - 130.1
Barium	239	215.2		mg/Kg		90.0	74.9 - 124.7
Cadmium	137	116.6		mg/Kg		85.1	75.2 - 124.8
Chromium	154	135.4		mg/Kg		87.9	70.1 - 129.9
Lead	130	133.9		mg/Kg		103.0	71.8 - 128.5
Selenium	167	138.0		mg/Kg		82.6	67.7 - 132.3
Silver	33.6	29.39		mg/Kg		87.5	68.5 - 131.3

Lab Sample ID: 480-197455-4 MS
Matrix: Solid
Analysis Batch: 625462

Client Sample ID: SB-11 0-2FT
Prep Type: Total/NA
Prep Batch: 624857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	21.3		63.9	78.60		mg/Kg	☼	90	75 - 125
Barium	165	F1	63.9	224.2		mg/Kg	☼	92	75 - 125
Cadmium	0.21	J	63.9	57.28		mg/Kg	☼	89	75 - 125
Chromium	21.5		63.9	81.95		mg/Kg	☼	95	75 - 125
Lead	34.2		63.9	92.65		mg/Kg	☼	92	75 - 125
Selenium	2.0	J	63.9	55.63		mg/Kg	☼	84	75 - 125
Silver	ND		16.0	15.22		mg/Kg	☼	95	75 - 125

Lab Sample ID: 480-197455-4 MSD
Matrix: Solid
Analysis Batch: 625462

Client Sample ID: SB-11 0-2FT
Prep Type: Total/NA
Prep Batch: 624857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	21.3		66.8	84.94		mg/Kg	☼	95	75 - 125	8	20
Barium	165	F1	66.8	250.9	F1	mg/Kg	☼	128	75 - 125	11	20
Cadmium	0.21	J	66.8	60.69		mg/Kg	☼	91	75 - 125	6	20
Chromium	21.5		66.8	89.55		mg/Kg	☼	102	75 - 125	9	20
Lead	34.2		66.8	105.3		mg/Kg	☼	106	75 - 125	13	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-197455-4 MSD
Matrix: Solid
Analysis Batch: 625462

Client Sample ID: SB-11 0-2FT
Prep Type: Total/NA
Prep Batch: 624857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	2.0	J	66.8	59.69		mg/Kg	☼	86	75 - 125	7	20
Silver	ND		16.7	16.36		mg/Kg	☼	98	75 - 125	7	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-624777/1-A
Matrix: Solid
Analysis Batch: 624926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0045	mg/Kg		05/06/22 08:32	05/06/22 11:18	1

Lab Sample ID: LCSSRM 480-624777/2-A ^10
Matrix: Solid
Analysis Batch: 624926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624777

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.5	21.97		mg/Kg		107.2	60.0 - 139.5

GC/MS VOA

Prep Batch: 624598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-4	SB-11 0-2FT	Total/NA	Solid	5035A_H	
480-197455-5	SB-12 6-8FT	Total/NA	Solid	5035A_H	
MB 480-624598/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-624598/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 624675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-4	SB-11 0-2FT	Total/NA	Solid	8260C	624598
480-197455-5	SB-12 6-8FT	Total/NA	Solid	8260C	624598
MB 480-624598/2-A	Method Blank	Total/NA	Solid	8260C	624598
LCS 480-624598/1-A	Lab Control Sample	Total/NA	Solid	8260C	624598

Analysis Batch: 624854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-6	SB-9W	Total/NA	Water	8260C	
480-197455-7	SB-12W	Total/NA	Water	8260C	
MB 480-624854/7	Method Blank	Total/NA	Water	8260C	
LCS 480-624854/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 624575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	3550C	
480-197455-2	SB-5 0-2FT	Total/NA	Solid	3550C	
480-197455-3	SB-7 0-2FT	Total/NA	Solid	3550C	
480-197455-4	SB-11 0-2FT	Total/NA	Solid	3550C	
480-197455-5	SB-12 6-8FT	Total/NA	Solid	3550C	
MB 480-624575/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-624575/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 624716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	8270D	624575
480-197455-2	SB-5 0-2FT	Total/NA	Solid	8270D	624575
480-197455-3	SB-7 0-2FT	Total/NA	Solid	8270D	624575
480-197455-4	SB-11 0-2FT	Total/NA	Solid	8270D	624575
480-197455-5	SB-12 6-8FT	Total/NA	Solid	8270D	624575
MB 480-624575/1-A	Method Blank	Total/NA	Solid	8270D	624575
LCS 480-624575/2-A	Lab Control Sample	Total/NA	Solid	8270D	624575

Metals

Prep Batch: 624777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	7471B	
480-197455-2	SB-5 0-2FT	Total/NA	Solid	7471B	
480-197455-3	SB-7 0-2FT	Total/NA	Solid	7471B	
480-197455-4	SB-11 0-2FT	Total/NA	Solid	7471B	
480-197455-5	SB-12 6-8FT	Total/NA	Solid	7471B	
MB 480-624777/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-624777/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-197455-1
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Metals

Prep Batch: 624857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	3050B	
480-197455-2	SB-5 0-2FT	Total/NA	Solid	3050B	
480-197455-3	SB-7 0-2FT	Total/NA	Solid	3050B	
480-197455-4	SB-11 0-2FT	Total/NA	Solid	3050B	
480-197455-5	SB-12 6-8FT	Total/NA	Solid	3050B	
MB 480-624857/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-624857/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-197455-4 MS	SB-11 0-2FT	Total/NA	Solid	3050B	
480-197455-4 MSD	SB-11 0-2FT	Total/NA	Solid	3050B	

Analysis Batch: 624926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	7471B	624777
480-197455-2	SB-5 0-2FT	Total/NA	Solid	7471B	624777
480-197455-3	SB-7 0-2FT	Total/NA	Solid	7471B	624777
480-197455-4	SB-11 0-2FT	Total/NA	Solid	7471B	624777
480-197455-5	SB-12 6-8FT	Total/NA	Solid	7471B	624777
MB 480-624777/1-A	Method Blank	Total/NA	Solid	7471B	624777
LCSSRM 480-624777/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	624777

Analysis Batch: 625462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	6010C	624857
480-197455-2	SB-5 0-2FT	Total/NA	Solid	6010C	624857
480-197455-3	SB-7 0-2FT	Total/NA	Solid	6010C	624857
480-197455-4	SB-11 0-2FT	Total/NA	Solid	6010C	624857
480-197455-5	SB-12 6-8FT	Total/NA	Solid	6010C	624857
MB 480-624857/1-A	Method Blank	Total/NA	Solid	6010C	624857
LCSSRM 480-624857/2-A	Lab Control Sample	Total/NA	Solid	6010C	624857
480-197455-4 MS	SB-11 0-2FT	Total/NA	Solid	6010C	624857
480-197455-4 MSD	SB-11 0-2FT	Total/NA	Solid	6010C	624857

General Chemistry

Analysis Batch: 624579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197455-1	SB-1 4-5FT	Total/NA	Solid	Moisture	
480-197455-2	SB-5 0-2FT	Total/NA	Solid	Moisture	
480-197455-3	SB-7 0-2FT	Total/NA	Solid	Moisture	
480-197455-4	SB-11 0-2FT	Total/NA	Solid	Moisture	
480-197455-5	SB-12 6-8FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-1 4-5FT
Lab Sample ID: 480-197455-1
Date Collected: 05/02/22 09:00
Matrix: Solid
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624579	05/04/22 16:09	JMM	TAL BUF

Client Sample ID: SB-1 4-5FT
Lab Sample ID: 480-197455-1
Date Collected: 05/02/22 09:00
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 69.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			624575	05/04/22 15:54	SJM	TAL BUF
Total/NA	Analysis	8270D		20	624716	05/05/22 20:54	PJQ	TAL BUF
Total/NA	Prep	3050B			624857	05/09/22 10:16	NBS	TAL BUF
Total/NA	Analysis	6010C		1	625462	05/10/22 16:42	LMH	TAL BUF
Total/NA	Prep	7471B			624777	05/06/22 08:32	NVK	TAL BUF
Total/NA	Analysis	7471B		1	624926	05/06/22 11:21	NVK	TAL BUF

Client Sample ID: SB-5 0-2FT
Lab Sample ID: 480-197455-2
Date Collected: 05/02/22 11:00
Matrix: Solid
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624579	05/04/22 16:09	JMM	TAL BUF

Client Sample ID: SB-5 0-2FT
Lab Sample ID: 480-197455-2
Date Collected: 05/02/22 11:00
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			624575	05/04/22 15:54	SJM	TAL BUF
Total/NA	Analysis	8270D		1	624716	05/05/22 21:18	PJQ	TAL BUF
Total/NA	Prep	3050B			624857	05/09/22 10:16	NBS	TAL BUF
Total/NA	Analysis	6010C		1	625462	05/10/22 16:46	LMH	TAL BUF
Total/NA	Prep	7471B			624777	05/06/22 08:32	NVK	TAL BUF
Total/NA	Analysis	7471B		1	624926	05/06/22 11:22	NVK	TAL BUF

Client Sample ID: SB-7 0-2FT
Lab Sample ID: 480-197455-3
Date Collected: 05/02/22 13:00
Matrix: Solid
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624579	05/04/22 16:09	JMM	TAL BUF

Client Sample ID: SB-7 0-2FT
Lab Sample ID: 480-197455-3
Date Collected: 05/02/22 13:00
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			624575	05/04/22 15:54	SJM	TAL BUF
Total/NA	Analysis	8270D		10	624716	05/05/22 21:42	PJQ	TAL BUF
Total/NA	Prep	3050B			624857	05/09/22 10:16	NBS	TAL BUF
Total/NA	Analysis	6010C		1	625462	05/10/22 16:50	LMH	TAL BUF
Total/NA	Prep	7471B			624777	05/06/22 08:32	NVK	TAL BUF
Total/NA	Analysis	7471B		5	624926	05/06/22 12:41	NVK	TAL BUF

Client Sample ID: SB-11 0-2FT
Lab Sample ID: 480-197455-4
Date Collected: 05/02/22 14:00
Matrix: Solid
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624579	05/04/22 16:09	JMM	TAL BUF

Client Sample ID: SB-11 0-2FT
Lab Sample ID: 480-197455-4
Date Collected: 05/02/22 14:00
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			624598	05/04/22 16:54	CDC	TAL BUF
Total/NA	Analysis	8260C		1	624675	05/05/22 16:41	AXK	TAL BUF
Total/NA	Prep	3550C			624575	05/04/22 15:54	SJM	TAL BUF
Total/NA	Analysis	8270D		1	624716	05/05/22 22:30	PJQ	TAL BUF
Total/NA	Prep	3050B			624857	05/09/22 10:16	NBS	TAL BUF
Total/NA	Analysis	6010C		1	625462	05/10/22 16:54	LMH	TAL BUF
Total/NA	Prep	7471B			624777	05/06/22 08:32	NVK	TAL BUF
Total/NA	Analysis	7471B		1	624926	05/06/22 11:25	NVK	TAL BUF

Client Sample ID: SB-12 6-8FT
Lab Sample ID: 480-197455-5
Date Collected: 05/02/22 15:25
Matrix: Solid
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624579	05/04/22 16:09	JMM	TAL BUF

Client Sample ID: SB-12 6-8FT
Lab Sample ID: 480-197455-5
Date Collected: 05/02/22 15:25
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			624598	05/04/22 16:54	CDC	TAL BUF
Total/NA	Analysis	8260C		80	624675	05/05/22 15:55	AXK	TAL BUF
Total/NA	Prep	3550C			624575	05/04/22 15:54	SJM	TAL BUF
Total/NA	Analysis	8270D		1	624716	05/05/22 22:06	PJQ	TAL BUF
Total/NA	Prep	3050B			624857	05/09/22 10:16	NBS	TAL BUF
Total/NA	Analysis	6010C		1	625462	05/10/22 17:13	LMH	TAL BUF

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Client Sample ID: SB-12 6-8FT

Lab Sample ID: 480-197455-5
Date Collected: 05/02/22 15:25
Matrix: Solid
Date Received: 05/03/22 16:45
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			624777	05/06/22 08:32	NVK	TAL BUF
Total/NA	Analysis	7471B		1	624926	05/06/22 11:26	NVK	TAL BUF

Client Sample ID: SB-9W

Lab Sample ID: 480-197455-6
Date Collected: 05/02/22 15:00
Matrix: Water
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624854	05/06/22 13:29	CR	TAL BUF

Client Sample ID: SB-12W

Lab Sample ID: 480-197455-7
Date Collected: 05/02/22 15:15
Matrix: Water
Date Received: 05/03/22 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2000	624854	05/06/22 13:52	CR	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-197455-1
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark-710 Ohio St,Bflo, NY

Job ID: 480-197455-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197455-1	SB-1 4-5FT	Solid	05/02/22 09:00	05/03/22 16:45
480-197455-2	SB-5 0-2FT	Solid	05/02/22 11:00	05/03/22 16:45
480-197455-3	SB-7 0-2FT	Solid	05/02/22 13:00	05/03/22 16:45
480-197455-4	SB-11 0-2FT	Solid	05/02/22 14:00	05/03/22 16:45
480-197455-5	SB-12 6-8FT	Solid	05/02/22 15:25	05/03/22 16:45
480-197455-6	SB-9W	Water	05/02/22 15:00	05/03/22 16:45
480-197455-7	SB-12W	Water	05/02/22 15:15	05/03/22 16:45

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Nick Suraci	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-173295-37456.1
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail: Brian.Fischer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Benchmark Env. Eng. & Science, PLLC	PWSID:			Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested: Standard			
City: Lackawanna	TAT Requested (days):			
State, Zip: NY, 14218	Compliance Project: Δ Yes Δ No			
Phone:	PO #: T0635-022-001-002-003			
Email: nsuraci@bm-tk.com	WO #:			
Project Name: GTO Benchmark-Ohio St,Bflo, NY	Project #: 48025133			
Site: GTO Ohio St	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

480-197455 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D, Moisture	8260C - TCL list OLM04.2+CP-51 list	8260C - (MOD) TCL list OLM04.2+CP-51 list	containers	
			Preservation Code:				N	N	A		
SB-1 4-5Ft	5/12/22	9:00	G	Solid			X				
SB-5 0-2Ft		11:00		Solid			X				
SB-7 0-2Ft		13:00		Solid			X				
SB-11 0-2Ft		14:00		Solid			X	X			
SB-12 6-8Ft		15:25		Solid			X	X			
SB-9W		15:00		Water					X	3	
SB-12W		15:15		Water					X	3	
~~SB-20-1.5Ft~~ SB-20-1.5Ft		9:45		~~Solid~~ Water							On hold
SB-4 0-1Ft		10:30	G	Solid							On hold
SB-6 1-2Ft		14:45	G	Solid							On hold
~~SB-9~~ DUP SB-9 4-5 5Ft		12:30	G	Solid							On hold

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	5/13/22 16:45	BMTK		5/13/22 1645	EUROFINS BFLO
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.5 #1 ICE

Ver: 06/08/2021

5/11/2022

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

[redacted]

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler: Nick Surai	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact: Nick Surai	Phone: 716-713-3937	E-Mail:	State of Origin:	Page:
Company: Turnkey Env. Restoration		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg Tpke	Due Date Requested: Standard	**Analysis Requested**		**Preservation Codes:**
City: Buffalo	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY 14218				Other:
Phone: 716-713-3937	PO #: T0616-022002			
Email: BMaybelle@BM-TK.com	WO #:			
Project Name: 20 Cornelia	Project #:			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAH's	RCRA Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB-1 0-2Ft	5/3/22	9:00	G	S						On hold
SB-5 0-2.5 Ft	↓	12:30	↓	↓						On hold
SB-4 0-2 Ft	↓	11:30	↓	↓						On hold
SB-6 0-2Ft	↓	12:00	↓	↓						On hold
SB-8 0-2Ft	↓	13:45	↓	↓						On hold
SB-9 0-2Ft	↓	15:10	↓	↓						On hold
SB-1 9-9 Ft	5/3/22	9:15	G	S						--

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank: 2 | Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: [signature]	Date/Time: 5/3/22 16:20	Company	Received by: [signature]	Date/Time: 5/3/22 1645	Company: Eurofins BFLO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 7.9 #1 ICE		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-197455-1

Login Number: 197455

List Source: Eurofins Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No: Analyses are listed on COC; individual samples are not designated Spec Analy
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BMTK
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	