

SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

**743 MAIN STREET
BUFFALO, ERIE COUNTY, NEW YORK**

Prepared for:

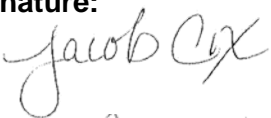
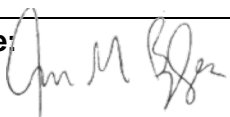
**Avalon Development, LLC
701 Secena Street, Suite 200
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Prepared by:



BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

**Brydges Engineering in Environment and Energy
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Prepared By: Jacob Cox, EIT	Signature: 	Date: 07/2023	Title: BE3— Environmental Engineer
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July 2023

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1.0 INTRODUCTION

Brydges Engineering in Environment and Energy (BE3) completed a Phase II Environmental Site Assessment (ESA) for the property located at 743 Main Street, Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II ESA was completed in accordance with ASTM E1903 - Standard Guide for Environmental Site Assessments: - Phase II Environmental Site Assessment Process and in general accordance with the most current updates of New York State Department of Environmental Conservation NYSDEC Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10).

This assessment included an investigation across the property (refer to **Figure 2**). The purpose of the assessment was to obtain information and data for assessing potential eligibility for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

1.1 BACKGROUND

1.1.1 General Site Setting

The property is currently a vacant lot but once contains a 4 story commercial building that was destroyed by fire and demolished in March of 2023. The property is located between the Theatre District and the Buffalo/Niagara Corridor and bound by Washington Street to the west, Main Street to the east, a parking lot to the north and a commercial building to the south. The surrounding area is predominantly commercial.

1.1.2 Physical Setting

The subject property is 0.3-acres and is currently a vacant lot. A 3-story commercial building was once located on the property and was destroyed by fire and demolished in March of 2023. The property is at an elevation of 627 feet, and located at 42° 53' 39.23" N; Longitude 78° 52' 15.66" W. The area has been historically mixed-use commercial with some residential. The property to the north is a large parking lot. Main Street bounds the property to the west and Washington Street to the east. To the south is a commercial building.

1.1.3 Historical Use

Historical records including street directories and Sanborn Maps suggest that the site was mixed use residential/commercial. Some of these uses include a jeweler, bike shop, dance hall, skating rink, residential, produce market and storage.

1.1.4 Contaminants of Concern

The history and use of the subject property suggests there were potential environmental impacts associated with fill material as well as adjacent properties historical uses. Potential contaminants include metals, polycyclic aromatic hydrocarbons (PAHs), petroleum and solvents.

1.2 SCOPE

The objective of this environmental assessment was to assess the potential for environmental impacts indicated by historical use at/adjacent to the subject property and to determine if it is

eligible for the BCP. This was completed by performing a field assessment of near surface and subsurface soil. Overburden groundwater was assessed on the property.

1.3 PREVIOUS INVESTIGATIONS

A previous Phase I environmental site assessment was performed on the subject property by Labella in September 2022 to identify the presence or likely presence of recognized environmental conditions (RECs). The following RECs were identified:

- One gasoline UST was identified immediately adjacent to the Site in the Washington Street right-of-way in at least 1925. It is likely that product piping and fuel dispenser was located on-site
- The east portion of the Site Building was utilized for automotive repair from at least 1946 to 1955.
- The north adjacent Site was historically utilized as a gasoline filling station. Although remedial work was completed on the north adjacent Site in 2001, subsurface gasoline impact may remain in-place on the north adjacent property. The severity of the impact remaining on the north adjacent property is unknown, and it is unknown whether the impact extends onto the Site.

In addition, during the Phase I ESA site walk, damaged and deteriorating building materials including but not limited to plaster were observed within interior spaces and released to the floors and stored materials. There is the potential that these materials contain asbestos, and that such materials would require handling and disposal as asbestos containing.

2.0 FIELD INVESTIGATIONS

The subsurface assessment field work for the subject property was completed on May 9, 2023, and June 28, 2023. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the property. The following is a summary of the Phase II tasks.

2.1 SOIL SAMPLING

BE3 completed an assessment of near-surface soils across the property by advancing a total of nine soil borings at specific locations across the property. (See **Figure 2**). A total of 8 grab soil samples from borings and 6 surface soil samples were collected for submission for laboratory analysis.

Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across the parcel. Boring depths ranged from 16 to 20 feet below ground surface (bgs). The borings were completed using a Geoprobe® unit which employs direct push technology. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 44 inches in length and 1½ inches in diameter with acetate liners resulting in approximately 4-foot length distinct sample cores (i.e., 0 to 4 feet, 4 to 8 feet, 8 to 12 feet). Each of the samplers was fitted with a new acetate liner prior to use. A photolog of field activities is included in **Appendix A**. Stratification of material observed in each boring are noted on boring logs, which are included in **Appendix B**.

Soil from each soil core was visually described and field screened for volatile organic compounds

(VOCs) using a MiniRae 3000+ photoionization detector (PID) with a 10.6 eV Lamp and by visual and olfactory observations. Soil cores from borings were transported to a staging area adjacent to each borehole. The soil core was opened, and the length of the core was examined visually and with PID. Odors, PID results, and observations were noted on the boring logs. A total of six (6) grab subsurface soil samples were collected at specific locations and depths from fill material as follows:

- BH01 at 0-2 (MS01) feet below ground surface (bgs). Total depth of boring was 16 feet bgs;
- BH02 no sample. Total depth of the boring was 16 feet bgs;
- BH03 at 0-2 feet bgs (MS02). Total depth of boring was 16 feet bgs;
- BH04 at 0-2 feet bgs (MS03). Total depth of boring was 16 feet bgs;
- BH05 no sample. Total depth of the boring was 16 feet bgs;
- BH06 at 0-2 feet bgs (MS04). Total depth of boring was 20 feet bgs;
- BH07 at 0-2 feet bgs (MS05) and 12-16 feet bgs (MS08). Total depth of boring was 16 feet bgs;
- BH09 at 0-2 feet bgs (MS06) and 12-16 feet bgs (MS07). Total depth of boring was 16 feet bgs;

Additionally, a total of six (6) grab surface soil samples were taken from 0-1 feet bgs designated as MS-7, MS-8, MS-9, MS-10, MS-11, and MS-12.

All soil borings were backfilled with the soil from the boring. The soil samples were submitted to Eurofins Buffalo Laboratory, a NYSDEC approved laboratory, for analysis.

2.2 GROUNDWATER SAMPLING

A total of two groundwater monitoring micro-wells were installed in boring BH07 (MS08) and BH09 (MS07) because the boring was wet at the completion depth. No elevated PID readings were detected. The wells were removed, and borings filled after sampling.

The well consisted of a 1-inch diameter, schedule 40 PVC casing equipped with a 5-foot, 100-slot screen and a solid PVC riser pipe extending to the surface. The well screen was positioned in the water bearing zone to the bottom of the bore to ensure assessment potential for contaminants. One groundwater sample was collected from each well and analyzed for volatile organic compounds. Two groundwater samples were collected using a bailer and analyzed for NYSDEC Part 375 VOCs by EPA Method 8260C. These results were compared to the detected groundwater parameter concentrations to the Class GA Groundwater Quality Standards (GWQS) per NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values.

2.3 SUBSURFACE CONDITIONS

The borings indicate that subsurface conditions generally consisted of fill with brown to black silty clayey sand with some debris such as brick and concrete. Fill depths ranged from 0 to 8 bgs. Below the fill in most locations was stiff red-brown silty clay or clayey silt. Bedrock was not encountered. The boreholes were completed to a range of 16 to 20 feet below ground surface. (Refer to borehole logs in **Appendix B**.)

3.0 RESULTS

The results of the Phase II assessment indicated the following:

- Fill exists across the property to about 8 feet in most locations.
- The fill contains elevated levels of metals primarily arsenic, lead, copper, and cadmium and semi volatile organic compounds primarily PAHs.

Soil samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC unrestricted, residential, restricted residential, commercial, and industrial Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (current). These SCOs and standards are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**.

3.1 SOIL

A total of fourteen (12) soil samples were collected for analysis. All soil samples were analyzed for NYSDEC Part 375 metals by EPA Method 6010C and NYSDEC Part 375 SVOCs by EPA Method 8270D. Six (6) samples were analyzed for NYSDEC Part 375 VOCs by EPA Method 8260 C.

Metals

Metal compounds were observed in all soil samples analyzed. A summary of metals above NYSDEC SCOs is provided in **Table 1** and **Figure 2**. The following results were above NYSDEC restricted residential SCOs:

- Cadmium was above restricted residential SCOs in samples MS-7 (6.3 ppm) and MS06 (565 ppm).

The following results were above NYSDEC commercial SCOs:

- Arsenic was above commercial SCOs in sample MS06 (499 ppm).
- Copper was above commercial SCOs in sample MS06 (850 ppm).

Other metals were above unrestricted SCOs in various samples across the property – refer to **Table 1** and **Figure 2**.

Semi-Volatile Organic Compounds (SVOCs)

SVOC compounds were observed in all soil samples analyzed. A summary of SVOCs above NYSDEC SCOs is provided in **Table 1** and **Figure 2**. The following results were above NYSDEC restricted residential SCOs:

- Benzo(a)anthracene was above restricted residential SCOs in samples MS05 (1.2 ppm), MS01 (4.0 ppm), MS04 (1.7 ppm), MS06 (1.1 ppm), MS-10 (2.0 ppm), and MS-11 (2.0 ppm)
- Benzo(b)fluoranthene was above restricted residential in samples MS05 (1.4 ppm), MS01 (3.5 ppm), MS04 (1.9 ppm), MS-10 (2.2 ppm), and MS-11 (2.2 ppm).
- Benzo(k)fluoranthene was above restricted residential SCOs in sample MS03 (14 ppm).

- Chrysene was above restricted residential SCOs in samples MS03 (27 ppm) and MS-9 (10 ppm).
- Dibenzo(a,h)anthracene was above restricted residential SCOs in sample MS04 (0.37 ppm).
- Indeno(1,2,3-cd)pyrene was above restricted residential SCOs in samples MS05 (0.85 ppm), MS01 (2 ppm), MS03 (15 ppm), MS04 (1 ppm), MS06 (0.62 ppm), MS-9 (3.3 ppm), MS-10 (0.89 ppm), and MS-11 (0.83 ppm).

The following results were above NYSDEC commercial SCOs:

- Benzo(a)anthracene was above commercial SCOs in samples MS03 (28 ppm), MS-9 (11 ppm).
- Benzo(a)pyrene was above commercial SCOs in samples MS05 (1.3 ppm), MS01 (3.6 ppm), MS03 (27 ppm), MS04 (1.7 ppm), MS06 (1.1 ppm), MS-9 (8.6 ppm), MS-10 (1.9 ppm), and MS-11 (2 ppm).
- Dibenzo(a,h)anthracene was above commercial SCOs in samples MS01 (0.82 ppm), MS03 (4.8 ppm), and MS-9 (1.3 ppm).

Volatile Organic Compounds (VOCs)

Odors and elevated PID readings were not observed in field activities. For due diligence, six of the soil samples in boreholes and at depths that indicated the highest PID readings were collected for VOC analysis at the laboratory. No VOCs were detected in the soil samples analyzed for volatile organic compounds.

3.2 GROUNDWATER

While some VOCs were detected in the groundwater samples, all results are below TOGS standards and guidance values.

4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts at 743 Main Street in Buffalo, New York. The property was previously mixed use residential and commercial and had a history of multiple uses including an auto repair shop on the east side from 1946 to 1955. Adjacent properties also have a history of commercial use as filling stations or use of USTs.

The laboratory results indicate that there are urban fill conditions existing at the property to at least 0-8 feet bgs resulting in target compounds (metals and SVOCs) above NYSDEC restricted residential and commercial SCOs. Historical use, previous environmental investigations, and this assessment indicate environmental impacts exist on the property in soils above NYSDEC SCOs.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils as well as a review of a previous Phase I ESA at the property. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

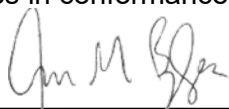
This report is intended for the sole use of Avalon Development, LLC. The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited subsurface assessment.

Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore not been evaluated.

6.0 PROFESSIONAL STATEMENT/SIGNATURE

This subsurface assessment at 743 Main Street, Buffalo, New York was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report and was completed based on the scope of work provided by the banks' consultant. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40CFR312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.



Jason Brydges, PE

7/11/2023

Date

FIGURES & TABLES



Figure 1: Erie County On-Line Mapping Application



Legend

 Parcels

0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
THIS MAP IS NOT TO BE USED FOR NAVIGATION

**ERIE COUNTY
DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF GIS**

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

1: 2,257



Figure 1: 743 Main Street - Boring Locations

Note: All analytical results listed in this figure are above restricted residential, commercial, or industrial Soil Cleanup Objectives (SCOs).

Soil Boring ●

Site Boundary —

Concentration above NYSDEC
Restricted Residential SCOs

Concentration above NYSDEC
Commercial SCOs



Figure 1: 743 Main Street - Boring Locations

743 Main Street
Buffalo, New York

7/11/2023
Avalon Development

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	743 Main Street - May 2023 - Sample ID, Sample Depth in feet below ground surface (bgs), and Sample Date									NYSDEC Soil Cleanup Objectives (SCOs)		
	MS05	MS01	MS03	MS04	MS06	MS-7	MS-9	MS-10	MS-11	Restricted Residential	Commerical	
	0-2'	0-2'	0-2'	0-2'	0-2'	0-1'	0-1'	0-1'	0-1'			
	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023			
METALS												
Arsenic	12.5	9.0	3.8	5.0	499.0	7.6	8.0	7.8	6.8	16	16	
Barium	99.2	114	60.0	222	50.8	105	91.5	103	104	400	400	
Beryllium	0.81	0.73	0.33	0.58	0.15 J	0.78	0.67	0.58	0.70	72	590	
Cadmium	0.43	0.47	0.5	0.38	0.28	6.3	0.4	0.440	0.36	4.3	9.3	
Chromium	20.0	22.0	11.0	17.0	90.3	18.8	20.2	18.9	16.9	180	1,500	
Copper	34.9	37.8	16.6	28.2	850.0	30.2	31.1	45.3	28.8	270	270	
Lead	97.9	113	63.3	89.9	565	82.5	81.3	100	83.0	400	1,000	
Manganese	421 B	430 B	569	392 B	439 B	392 B	406 B	389 B	356 B	2,000	10,000	
Mercury	0.079	0.067	0.310	0.10	0.46	0.19 B	0.31 B	0.14 B	0.1 B	0.81	2.8	
Nickel	25.7	25.3	9.0	17.3	33.3	21.7	22.8	20.4	22.4	310	310	
Zinc	108	130	75.3	128	169	977	97.5	108	95.4	10,000	10,000	
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)												
Acenaphthene	ND	0.79 J	11	0.46 J	0.19	0.71 J	2.5	0.49	0.330	100	500	
Acenaphthylene	ND	0.27 J	2.5 J	ND	0.12 J	0.050 J	0.72 J	0.11 J	0.061 J	100	500	
Anthracene	0.47	2.8	22	0.85 J	0.55	0.22	8.1	1.2	1.6	100	500	
Benzo(a)anthracene	1.2 J	4.0	28	1.7 J	1.1	0.64	11	2.0	2.0	1	5.6	
Benzo(a)pyrene	1.3 J	3.6	27	1.7 J	1.1	0.69	8.6	1.9	2.0	1	1	
Benzo(b)fluoranthene	1.4 J	3.5	24	1.9	1.1	0.78	9.7	2.2	2.2	1	5.6	
Benzo(g,h,i)perylene	0.78 J	2	16	1.2	0.62	0.37	2.8	0.88	0.77	100	500	
Benzo(k)fluoranthene	0.88 J	1.9 J	14	0.86	0.62	0.29	4	0.84	0.900	3.9	56	
Chrysene	1.4 J	3.7	27	1.8	1.1	0.68	10	2	2	3.9	56	
Dibenz(a,h)anthracene	ND	0.82 J	4.8	0.37	0.21	0.13 J	1.3	0.29	0.26	0.33	0.56	
Dibenzofuran	ND	1.1 J	6.8	0.33	0.18 J	0.052 J	2.2	0.32	0.36	18	180	
Fluoranthene	3.0	13	80	4.6	2.6	1.1 F1	25	4.2	4.5	100	500	
Fluorene	ND	1.7	11	0.39	0.26	0.085 J	3.8	0.55	0.54	100	500	
Indeno(1,2,3-cd)pyrene	0.85 J	2.0	15	1.0	0.62	0.36	3.3	0.89	0.83	0.5	5.6	
Naphthalene	ND	ND	13	ND	0.21	0.034 J	0.77 J	0.47	0.21	100	500	
Phenanthrene	1.4 J	11	76	3.3	2.0	0.860 F1	25	4.2	4.3	100	500	
Pyrene	1.7 J	6	47	2.8	1.8	1.1	16	3.6	3.3	100	500	
VOLATILE ORGANIC COMPOUNDS (VOCs)												
VOCs	ND	ND	ND	ND	ND	-	-	-	-	Various	Various	
ND Analyte not detected						Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO						
- Not Applicable or sample not tested for this analyte						Reported concentration greater than or equal to the NYSDEC Commercial SCO						

ND Analyte not detected
- Not Applicable or sample not tested for this analyte
J Estimated Concentration
B Analyte detected in method blank
K Result is reported as Benzo(b)fluoranthene
E Results exceeded calibration range
Values in parts per million (PPM)

Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
Reported concentration greater than or equal to the NYSDEC Commercial SCO

TABLE 2
SUMMARY OF GROUNDWATER RESULTS

Sample ID, Groundwater Depth (Top of Casing), and Sample Date			
Parameter Tested	MS07 12-16'	MS08 12-16'	NYSDEC TOGS 1.1.1 GA
	5/9/2023		
Volatile Organic Compounds (VOCs)			
Acetone	10 J	6.2 J	50
Benzene	ND	0.49 J	1
Chloroform	1.4 J	1.4	7
Toluene	ND	0.69 J	5

Notes: All units in micrograms per liter (µg/L)

NYSDEC New York State Department of Environmental Conservation

TOGS Technical and Operational Guidance Series

500 Analyte exceeds NYSDEC TOGS guidance value

APPENDICES

APPENDIX A

Field Activity Photolog

Daily Field Report

Date:	Tuesday, May 9, 2023		
Site Name:	743 Main St.		
Location:	743 Main St.		
Contractor/Sub-Contractor:	TREC		
Weather Conditions:	Sunny	54 °F	SW 7 mph
<u>Description of Work Performed:</u> Driller mmobilized and performed nine borings with a geoprobe. BE3 evaluated material and pulled samples for analysis.			
Problems/Observations:	None.		
Health and Saftey Concerns:	None.		
Contractor Work Force:	TREC: 1 Operator		
Contractor Equipment			
Attachments : Daily report, Photo Log			
Inspectors Name	Libby Broderick		

Photo Log

Date:	Tuesday, May 9, 2023
Site Name:	743 Main St.



Geoprobe - Bore 09



Bore 04



Bore 09



Bore 07

DAILY FIELD REPORT

Date:	Wednesday, June 28, 2023
Site Name:	743 Main Street
Location:	743 Main Street, Buffalo, NY 14203
Contractor/Sub-Contractor:	None.
Weather Conditions:	Cloudy 62 °F
<u>Description of Work Performed:</u> BE3 on site to collect six additional surface soil samples for analysis. No other work performed.	
Problems/Observations:	None.
Health and Safety Concerns:	None.
Contractor Work Force:	None
Contractor Equipment	None
Attachments : Photo Log	
Inspectors Name	Pete Gorton

PHOTO LOG

Date: Wednesday, June 28, 2023

Site Name: 743 Main Street



MS-8 looking North



MS-11 looking South



MS-9 looking North



MS-10 looking South



MS-7 looking North



MS-12 looking North

APPENDIX B

Boring Logs

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
				743 Main St.	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
				Geoprobe	
Date Completed:		5/9/2023		Geologist/Technician:	
				Libby Broderick	
Operator:		TREC		Ground Water:	
				N/A	
Bore Hole Number:		01		Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4	MS01	C		0.0	0 - 4 feet - Urban Fill - Mix of brick, stone, soil
5					
6					
7					
8				0.7	4 - 8 feet - Urban Fill - Mix of brick, stone, soil
9					
10					
11					
12				0.0	8 - 12 - Sand, clay
13					
14					
15					
16				0.0	12 - 16 - Clay
17					
18					
19					
20					
Comments: MS01 - Soil sample 0-4' No odor, PID readings 0.7ppm No water encountered					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		02		Depth to Bedrock:	
Depth (Ft)		Sample		PID	
		NO TYPE		REC (ppm)	
0					
1					
2					
3					
4				0.0 0 - 4 feet - Urban Fill - Mix of brick, stone and soil	
5					
6					
7					
8				0.0 4 - 8 feet - Sand	
9					
10					
11					
12				0.0 8 - 12 - Sand	
13					
14					
15					
16				0.0 12 - 16 - Clay	
17					
18					
19					
20					
Comments: No sample taken No odor, PID readings 0.0ppm No water encountered					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		03		Depth to Bedrock:	
Depth (Ft)		Sample		PID	
		NO TYPE		REC (ppm)	
0					
1					
2					
3					
4		MS02 C		0.0 0 - 4 feet - Urban Fill - Mix of brick, stone and soil	
5					
6					
7					
8				0.0 4 - 8 feet - Urban Fill - Mix of brick, stone, soil	
9					
10					
11					
12				0.0 8 - 12 - Sand, clay, wet	
13					
14					
15					
16				0.0 12 - 16 - Clay	
17					
18					
19					
20					
Comments: MS02 Soil sample 0-4' No odor, PID readings 0.0ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		04		Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4	MS03	C		0.0	0 - 4 feet - Urban Fill - Mix of brick, stone and soil
5					
6					
7					
8				0.0	4 - 8 feet - Sand, rocks
9					
10					
11					
12				0.0	8 - 12 - Sand, clay, wet
13					
14					
15					
16				0.0	12 - 16 - Clay
17					
18					
19					
20					
Comments: MS03 Soil sample 0-4' No odor, PID readings 0.0ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		05		Depth to Bedrock:	
Bore Hole Number:		05		Depth to Bedrock:	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4				0.0	0 - 4 feet - Urban Fill - Mix of brick, stone and soil
5					
6					
7					
8				0.0	4 - 8 feet - Sand
9					
10					
11					
12				0.0	8 - 12 - Sand, wet
13					
14					
15					
16				0.0	12 - 16 - Sand
17					
18					
19					
20					
Comments: No sample taken No odor, PID readings 0.0ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		06		Depth to Bedrock:	
Depth (Ft)		Sample NO TYPE		REC	
				PID (ppm)	
		Description			
0					
1					
2					
3					
4	MS04	C		0.0	0 - 4 feet - Urban Fill - Mix of brick and stone
5					
6					
7					
8				0.0	4 - 8 feet - Urban Fill - Mix of brick and stone
9					
10					
11					
12				0.0	8 - 12 - Sand, wet
13					
14					
15					
16				0.0	12 - 16 - Sand, wet
17					
18					
19					
20				0.0	16 - 20 - Sand, clay, wet
Comments: MS04 Soil sample 0-4' No odor, PID readings 0.0ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		07		Depth to Bedrock:	
Depth (Ft)		Sample		PID	
		NO TYPE		REC (ppm)	
0					
1					
2					
3					
4		MS05 C		0.0 0 - 4 feet - Urban Fill - Mix of brick and stone	
5					
6					
7					
8				0.0 4 - 8 feet - Urban Fill - Mix of brick and stone	
9					
10					
11					
12				0.0 8 - 12 - Sand and clay, wet	
13					
14					
15					
16		MS08		1.1 12 - 16 - Clay, wet	
17					
18					
19					
20					
Comments: MS05 Soil sample 0-4' MS08 Water sample ~12'-16' PID readings from well were 1.1ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
Date Completed:		5/9/2023		Geologist/Technician:	
Operator:		TREC		Ground Water:	
Bore Hole Number:		08		Depth to Bedrock:	
Depth (Ft)		Sample		PID	
		NO TYPE		REC (ppm)	
0					
1					
2					
3					
4				0.0 0 - 4 feet - Urban Fill - Mix of brick, stone and soil	
5					
6					
7					
8				0.0 4 - 8 feet - Urban Fill - Mix of brick, stone and soil	
9					
10					
11					
12				0.0 8 - 12 - Urban Fill - Mix of brick, stone and soil, wet	
13					
14					
15					
16				0.0 12 - 16 - Sand	
17					
18					
19					
20				0.0 16 - 20 - Sand/Clay	
Comments: No sample taken No odor, PID readings 0.0ppm Water encountered ~10' BGS					

Geoprobe Bore Hole Log



960 Busti Avenue, Suite B-150
Buffalo, NY 14213
716.249.6880 be3corp.com

Project:				743 Main St., Buffalo, NY	
Client:		Avalon		Location:	
				743 Main St.	
Contractor:		TREC		Lat/Long:	
Date Started:		5/9/2023		Equipment Model:	
				Geoprobe	
Date Completed:		5/9/2023		Geologist/Technician:	
				Libby Broderick	
Operator:		TREC		Ground Water:	
				N/A	
Bore Hole Number:		09		Depth to Bedrock:	
				N/A	

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4	MS06	C		0.0	0 - 4 feet - Urban Fill - Mix of brick, stone and soil
5					
6					
7					
8				0.0	4 - 8 feet - Urban Fill - Mix of brick, stone, orange sandy soil, wet
9					
10					
11					
12					8 - 12 - Orange, sandy soil, wet
13					
14					
15					
16	MS07			0.0	12 - 16 - Clay, wet
17					
18					
19					
20					

Comments:
MS06 Soil sample 0-4'
MS07 Water sample ~12'-16'
PID readings from well were 0.0ppm
Water encountered ~8' BGS

APPENDIX C

Laboratory Data

ANALYTICAL REPORT

PREPARED FOR

Attn: Jason Brydges
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 5/19/2023 7:45:06 AM

JOB DESCRIPTION

743 Main Street

JOB NUMBER

480-208767-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
John Beninati, Project Manager
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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Eurofins Buffalo

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Job ID: 480-208767-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-208767-1

Comments

No additional comments.

Receipt

The samples were received on 5/10/2023 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.5° C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MS-07 (480-208767-7). Elevated reporting limits (RLs) are provided.

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 samples were analyzed within the 7-day holding time specified for unpreserved samples: MS-07 (480-208767-7) and MS-08 (480-208767-8).

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 samples were diluted due to color, appearance, and viscosity: MS-01 (480-208767-1), MS-02 (480-208767-2), MS-03 (480-208767-3), MS-04 (480-208767-4) and MS-05 (480-208767-5). Elevated reporting limits (RL) are provided.

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: MS-01 (480-208767-1), MS-04 (480-208767-4) and MS-05 (480-208767-5). These results have been reported and qualified.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MS-03 (480-208767-3). 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.

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

Metals

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Chromium, Nickel, and Lead: MS-06 (480-208767-6). Elevated reporting limits (RLs) are provided.

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

Organic Prep

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-01

Lab Sample ID: 480-208767-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	790	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Acenaphthylene	270	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Anthracene	2800		2000	500	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	4000		2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	3600		2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	3500		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	2000		2000	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	1900	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	3700		2000	460	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	820	J	2000	360	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	1100	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	13000		2000	220	ug/Kg	10	✱	8270D	Total/NA
Fluorene	1700	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2000		2000	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	11000		2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	6000		2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	9.0		2.3	0.46	mg/Kg	1	✱	6010C	Total/NA
Barium	114		0.58	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.73		0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.47		0.23	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	22.0		0.58	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	37.8		1.2	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	113		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	430	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	25.3		5.8	0.26	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.97	J	4.6	0.46	mg/Kg	1	✱	6010C	Total/NA
Zinc	130		2.3	0.74	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.067		0.022	0.0050	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-02

Lab Sample ID: 480-208767-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	650	J	1900	190	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	790	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	830	J	1900	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	460	J	1900	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	450	J	1900	240	ug/Kg	10	✱	8270D	Total/NA
Chrysene	750	J	1900	420	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	1800	J	1900	200	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	560	J	1900	230	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	1100	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1000	J	1900	220	ug/Kg	10	✱	8270D	Total/NA
Arsenic	7.4		2.2	0.44	mg/Kg	1	✱	6010C	Total/NA
Barium	202		0.55	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.60		0.22	0.031	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.50		0.22	0.033	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.3		0.55	0.22	mg/Kg	1	✱	6010C	Total/NA
Copper	33.8		1.1	0.23	mg/Kg	1	✱	6010C	Total/NA
Lead	127		1.1	0.27	mg/Kg	1	✱	6010C	Total/NA
Manganese	394	B	0.22	0.035	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.7		5.5	0.25	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-02 (Continued)

Lab Sample ID: 480-208767-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.48	J	4.4	0.44	mg/Kg	1	✱	6010C	Total/NA
Zinc	183		2.2	0.71	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.11		0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-03

Lab Sample ID: 480-208767-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	11000		3600	520	ug/Kg	20	✱	8270D	Total/NA
Acenaphthylene	2500	J	3600	460	ug/Kg	20	✱	8270D	Total/NA
Anthracene	22000		3600	880	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]anthracene	28000		3600	360	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]pyrene	27000		3600	520	ug/Kg	20	✱	8270D	Total/NA
Benzo[b]fluoranthene	24000		3600	570	ug/Kg	20	✱	8270D	Total/NA
Benzo[g,h,i]perylene	16000		3600	380	ug/Kg	20	✱	8270D	Total/NA
Benzo[k]fluoranthene	14000		3600	460	ug/Kg	20	✱	8270D	Total/NA
Chrysene	27000		3600	800	ug/Kg	20	✱	8270D	Total/NA
Dibenz(a,h)anthracene	4800		3600	630	ug/Kg	20	✱	8270D	Total/NA
Dibenzofuran	6800		3600	420	ug/Kg	20	✱	8270D	Total/NA
Fluoranthene	80000		3600	380	ug/Kg	20	✱	8270D	Total/NA
Fluorene	11000		3600	420	ug/Kg	20	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	15000		3600	440	ug/Kg	20	✱	8270D	Total/NA
Naphthalene	13000		3600	460	ug/Kg	20	✱	8270D	Total/NA
Phenanthrene	76000		3600	520	ug/Kg	20	✱	8270D	Total/NA
Pyrene	47000		3600	420	ug/Kg	20	✱	8270D	Total/NA
Arsenic	3.8		2.2	0.44	mg/Kg	1	✱	6010C	Total/NA
Barium	60.0		0.55	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.33		0.22	0.031	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.45		0.22	0.033	mg/Kg	1	✱	6010C	Total/NA
Chromium	11.0		0.55	0.22	mg/Kg	1	✱	6010C	Total/NA
Copper	16.6		1.1	0.23	mg/Kg	1	✱	6010C	Total/NA
Lead	63.3	F1 F2	1.1	0.26	mg/Kg	1	✱	6010C	Total/NA
Manganese	569	B	0.22	0.035	mg/Kg	1	✱	6010C	Total/NA
Nickel	9.0		5.5	0.25	mg/Kg	1	✱	6010C	Total/NA
Zinc	75.3	F1	2.2	0.70	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.31		0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-04

Lab Sample ID: 480-208767-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	460	J	1900	270	ug/Kg	10	✱	8270D	Total/NA
Anthracene	850	J	1900	460	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	1700	J	1900	190	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	1700	J	1900	270	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1900		1900	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1200	J	1900	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	860	J	1900	240	ug/Kg	10	✱	8270D	Total/NA
Chrysene	1800	J	1900	420	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	370	J	1900	330	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	330	J	1900	220	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	4600		1900	200	ug/Kg	10	✱	8270D	Total/NA
Fluorene	390	J	1900	220	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1000	J	1900	230	ug/Kg	10	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-04 (Continued)

Lab Sample ID: 480-208767-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	3300		1900	270	ug/Kg	10	✱	8270D	Total/NA
Pyrene	2800		1900	220	ug/Kg	10	✱	8270D	Total/NA
Arsenic	5.0		2.3	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	222		0.58	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.58		0.23	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.38		0.23	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	17.0		0.58	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	28.2		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	89.9		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	392	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.3		5.8	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	128		2.3	0.75	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.10		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-05

Lab Sample ID: 480-208767-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	470	J	1900	470	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	1200	J	1900	190	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	1300	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1400	J	1900	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	780	J	1900	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	880	J	1900	250	ug/Kg	10	✱	8270D	Total/NA
Chrysene	1400	J	1900	420	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	3000		1900	200	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	850	J	1900	230	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	1400	J	1900	280	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1700	J	1900	220	ug/Kg	10	✱	8270D	Total/NA
Arsenic	12.5		2.1	0.43	mg/Kg	1	✱	6010C	Total/NA
Barium	99.2		0.53	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.81		0.21	0.030	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.43		0.21	0.032	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.0		0.53	0.21	mg/Kg	1	✱	6010C	Total/NA
Copper	34.9		1.1	0.22	mg/Kg	1	✱	6010C	Total/NA
Lead	97.9		1.1	0.26	mg/Kg	1	✱	6010C	Total/NA
Manganese	421	B	0.21	0.034	mg/Kg	1	✱	6010C	Total/NA
Nickel	25.7		5.3	0.24	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.43	J	4.3	0.43	mg/Kg	1	✱	6010C	Total/NA
Zinc	108		2.1	0.68	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.079		0.020	0.0045	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-06

Lab Sample ID: 480-208767-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	190		190	27	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	120	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Anthracene	550		190	46	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1100		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1100		190	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1100		190	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	620		190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	620		190	24	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-06 (Continued)

Lab Sample ID: 480-208767-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	1100		190	41	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	210		190	33	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	180	J	190	22	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2600		190	20	ug/Kg	1	✱	8270D	Total/NA
Fluorene	260		190	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	620		190	23	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	210		190	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	2000		190	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1800		190	22	ug/Kg	1	✱	8270D	Total/NA
Arsenic	499		2.3	0.46	mg/Kg	1	✱	6010C	Total/NA
Barium	50.8		0.57	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.15	J	0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.28		0.23	0.034	mg/Kg	1	✱	6010C	Total/NA
Chromium	90.3		2.9	1.1	mg/Kg	5	✱	6010C	Total/NA
Copper	850		1.1	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	565		5.7	1.4	mg/Kg	5	✱	6010C	Total/NA
Manganese	439	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	33.3		28.5	1.3	mg/Kg	5	✱	6010C	Total/NA
Selenium	2.8	J	4.6	0.46	mg/Kg	1	✱	6010C	Total/NA
Zinc	169		2.3	0.73	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.46		0.023	0.0052	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-07

Lab Sample ID: 480-208767-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	20	6.0	ug/L	2		8260C	Total/NA
Chloroform	1.4	J	2.0	0.68	ug/L	2		8260C	Total/NA

Client Sample ID: MS-08

Lab Sample ID: 480-208767-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.49	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroform	1.4		1.0	0.34	ug/L	1		8260C	Total/NA
Toluene	0.69	J	1.0	0.51	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-01

Lab Sample ID: 480-208767-1

Date Collected: 05/09/23 10:30

Matrix: Solid

Date Received: 05/10/23 17:00

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.0	U vs	6.0	0.43	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,1-Dichloroethane	6.0	U vs	6.0	0.73	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,1-Dichloroethene	6.0	U vs	6.0	0.73	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,2,4-Trimethylbenzene	6.0	U vs	6.0	1.1	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,2-Dichlorobenzene	6.0	U vs	6.0	0.47	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,2-Dichloroethane	6.0	U vs	6.0	0.30	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,3,5-Trimethylbenzene	6.0	U vs	6.0	0.39	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,3-Dichlorobenzene	6.0	U vs	6.0	0.31	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,4-Dichlorobenzene	6.0	U vs	6.0	0.84	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
1,4-Dioxane	120	U vs	120	26	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
2-Butanone (MEK)	30	U vs	30	2.2	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Acetone	30	U vs	30	5.0	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Benzene	6.0	U vs	6.0	0.29	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Carbon tetrachloride	6.0	U vs	6.0	0.58	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Chlorobenzene	6.0	U vs	6.0	0.79	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Chloroform	6.0	U vs	6.0	0.37	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
cis-1,2-Dichloroethene	6.0	U vs	6.0	0.77	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Ethylbenzene	6.0	U vs	6.0	0.41	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Methyl tert-butyl ether	6.0	U vs	6.0	0.59	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Methylene Chloride	6.0	U vs	6.0	2.8	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
n-Butylbenzene	6.0	U vs	6.0	0.52	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
N-Propylbenzene	6.0	U vs	6.0	0.48	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
sec-Butylbenzene	6.0	U vs	6.0	0.52	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
tert-Butylbenzene	6.0	U vs	6.0	0.62	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Tetrachloroethene	6.0	U vs	6.0	0.80	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Toluene	6.0	U vs	6.0	0.45	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
trans-1,2-Dichloroethene	6.0	U vs	6.0	0.62	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Trichloroethene	6.0	U vs	6.0	1.3	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Vinyl chloride	6.0	U vs	6.0	0.73	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1
Xylenes, Total	12	U vs	12	1.0	ug/Kg	✱	05/10/23 18:25	05/10/23 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	05/10/23 18:25	05/10/23 22:37	1
4-Bromofluorobenzene (Surr)	93		72 - 126	05/10/23 18:25	05/10/23 22:37	1
Dibromofluoromethane (Surr)	97		60 - 140	05/10/23 18:25	05/10/23 22:37	1
Toluene-d8 (Surr)	93		71 - 125	05/10/23 18:25	05/10/23 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1200	U	1200	660	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
2-Methylphenol	2000	U	2000	240	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
3-Methylphenol	4000	U	4000	310	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
4-Methylphenol	4000	U	4000	240	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Acenaphthene	790	J	2000	300	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Acenaphthylene	270	J	2000	260	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Anthracene	2800		2000	500	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Benzo[a]anthracene	4000		2000	200	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Benzo[a]pyrene	3600		2000	300	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Benzo[b]fluoranthene	3500		2000	320	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10
Benzo[g,h,i]perylene	2000		2000	220	ug/Kg	✱	05/11/23 15:59	05/12/23 17:23	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-01

Date Collected: 05/09/23 10:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-1

Matrix: Solid

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	1900	J	2000	260	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Chrysene	3700		2000	460	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Dibenz(a,h)anthracene	820	J	2000	360	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Dibenzofuran	1100	J	2000	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Fluoranthene	13000		2000	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Fluorene	1700	J	2000	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Hexachlorobenzene	2000	U	2000	280	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Indeno[1,2,3-cd]pyrene	2000		2000	250	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Pentachlorophenol	4000	U	4000	2000	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Phenanthrene	11000		2000	300	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Phenol	2000	U	2000	310	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10
Pyrene	6000		2000	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		54 - 120	05/11/23 15:59	05/12/23 17:23	10
2-Fluorobiphenyl (Surr)	84		60 - 120	05/11/23 15:59	05/12/23 17:23	10
2-Fluorophenol (Surr)	86		52 - 120	05/11/23 15:59	05/12/23 17:23	10
Nitrobenzene-d5 (Surr)	80		53 - 120	05/11/23 15:59	05/12/23 17:23	10
Phenol-d5 (Surr)	73		54 - 120	05/11/23 15:59	05/12/23 17:23	10
p-Terphenyl-d14 (Surr)	69	S1-	79 - 130	05/11/23 15:59	05/12/23 17:23	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.3	0.46	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Barium	114		0.58	0.13	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Beryllium	0.73		0.23	0.032	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Cadmium	0.47		0.23	0.035	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Chromium	22.0		0.58	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Copper	37.8		1.2	0.24	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Lead	113		1.2	0.28	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Manganese	430	B	0.23	0.037	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Nickel	25.3		5.8	0.26	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Selenium	0.97	J	4.6	0.46	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Silver	0.69	U	0.69	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1
Zinc	130		2.3	0.74	mg/Kg	☆	05/11/23 10:23	05/12/23 21:43	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.022	0.0050	mg/Kg	☆	05/12/23 09:47	05/12/23 13:08	1

Client Sample ID: MS-02

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-2

Matrix: Solid

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,1-Dichloroethane	5.6	U vs	5.6	0.69	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,1-Dichloroethene	5.6	U vs	5.6	0.69	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,2,4-Trimethylbenzene	5.6	U vs	5.6	1.1	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-02

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-2

Matrix: Solid

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	5.6	U vs	5.6	0.44	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,3,5-Trimethylbenzene	5.6	U vs	5.6	0.36	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,3-Dichlorobenzene	5.6	U vs	5.6	0.29	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,4-Dichlorobenzene	5.6	U vs	5.6	0.79	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
1,4-Dioxane	110	U vs	110	25	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
2-Butanone (MEK)	28	U vs	28	2.1	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Acetone	28	U vs	28	4.7	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Benzene	5.6	U vs	5.6	0.28	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Carbon tetrachloride	5.6	U vs	5.6	0.54	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Chlorobenzene	5.6	U vs	5.6	0.74	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Chloroform	5.6	U vs	5.6	0.35	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Ethylbenzene	5.6	U vs	5.6	0.39	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
n-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
N-Propylbenzene	5.6	U vs	5.6	0.45	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
sec-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
tert-Butylbenzene	5.6	U vs	5.6	0.58	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Tetrachloroethene	5.6	U vs	5.6	0.75	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Toluene	5.6	U vs	5.6	0.43	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Trichloroethene	5.6	U vs	5.6	1.2	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Vinyl chloride	5.6	U vs	5.6	0.69	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1
Xylenes, Total	11	U vs	11	0.94	ug/Kg	☆	05/10/23 18:25	05/10/23 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126	05/10/23 18:25	05/10/23 23:02	1
4-Bromofluorobenzene (Surr)	93		72 - 126	05/10/23 18:25	05/10/23 23:02	1
Dibromofluoromethane (Surr)	99		60 - 140	05/10/23 18:25	05/10/23 23:02	1
Toluene-d8 (Surr)	92		71 - 125	05/10/23 18:25	05/10/23 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	610	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
2-Methylphenol	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
4-Methylphenol	3700	U	3700	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Acenaphthene	1900	U	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Acenaphthylene	1900	U	1900	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Anthracene	1900	U	1900	470	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Benzo[a]anthracene	650	J	1900	190	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Benzo[a]pyrene	790	J	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Benzo[b]fluoranthene	830	J	1900	300	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Benzo[g,h,i]perylene	460	J	1900	200	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Benzo[k]fluoranthene	450	J	1900	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Chrysene	750	J	1900	420	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Dibenz(a,h)anthracene	1900	U	1900	330	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Dibenzofuran	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-02

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-2

Matrix: Solid

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	1800	J	1900	200	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Fluorene	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Indeno[1,2,3-cd]pyrene	560	J	1900	230	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Naphthalene	1900	U	1900	240	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Phenanthrene	1100	J	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Phenol	1900	U	1900	290	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10
Pyrene	1000	J	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 17:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	05/11/23 15:59	05/12/23 17:48	10
2-Fluorobiphenyl (Surr)	79		60 - 120	05/11/23 15:59	05/12/23 17:48	10
2-Fluorophenol (Surr)	83		52 - 120	05/11/23 15:59	05/12/23 17:48	10
Nitrobenzene-d5 (Surr)	89		53 - 120	05/11/23 15:59	05/12/23 17:48	10
Phenol-d5 (Surr)	87		54 - 120	05/11/23 15:59	05/12/23 17:48	10
p-Terphenyl-d14 (Surr)	83		79 - 130	05/11/23 15:59	05/12/23 17:48	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		2.2	0.44	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Barium	202		0.55	0.12	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Beryllium	0.60		0.22	0.031	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Cadmium	0.50		0.22	0.033	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Chromium	20.3		0.55	0.22	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Copper	33.8		1.1	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Lead	127		1.1	0.27	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Manganese	394	B	0.22	0.035	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Nickel	22.7		5.5	0.25	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Selenium	0.48	J	4.4	0.44	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Silver	0.66	U	0.66	0.22	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1
Zinc	183		2.2	0.71	mg/Kg	☆	05/11/23 10:23	05/12/23 21:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.023	0.0053	mg/Kg	☆	05/12/23 09:47	05/12/23 13:09	1

Client Sample ID: MS-03

Date Collected: 05/09/23 11:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-3

Matrix: Solid

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U vs	5.3	0.38	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,1-Dichloroethane	5.3	U vs	5.3	0.65	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,1-Dichloroethene	5.3	U vs	5.3	0.65	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,2,4-Trimethylbenzene	5.3	U vs	5.3	1.0	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,2-Dichlorobenzene	5.3	U vs	5.3	0.41	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,2-Dichloroethane	5.3	U vs	5.3	0.27	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,3,5-Trimethylbenzene	5.3	U vs	5.3	0.34	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,3-Dichlorobenzene	5.3	U vs	5.3	0.27	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-03

Date Collected: 05/09/23 11:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-3

Matrix: Solid

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	5.3	U vs	5.3	0.74	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
1,4-Dioxane	110	U vs	110	23	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
2-Butanone (MEK)	27	U vs	27	1.9	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Acetone	27	U vs	27	4.5	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Benzene	5.3	U vs	5.3	0.26	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Carbon tetrachloride	5.3	U vs	5.3	0.51	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Chlorobenzene	5.3	U vs	5.3	0.70	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Chloroform	5.3	U vs	5.3	0.33	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
cis-1,2-Dichloroethene	5.3	U vs	5.3	0.68	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Ethylbenzene	5.3	U vs	5.3	0.37	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Methyl tert-butyl ether	5.3	U vs	5.3	0.52	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Methylene Chloride	5.3	U vs	5.3	2.4	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
n-Butylbenzene	5.3	U vs	5.3	0.46	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
N-Propylbenzene	5.3	U vs	5.3	0.42	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
sec-Butylbenzene	5.3	U vs	5.3	0.46	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
tert-Butylbenzene	5.3	U vs	5.3	0.55	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Tetrachloroethene	5.3	U vs	5.3	0.71	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Toluene	5.3	U vs	5.3	0.40	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
trans-1,2-Dichloroethene	5.3	U vs	5.3	0.55	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Trichloroethene	5.3	U vs	5.3	1.2	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Vinyl chloride	5.3	U vs	5.3	0.65	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1
Xylenes, Total	11	U vs	11	0.89	ug/Kg	☆	05/10/23 18:25	05/10/23 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/10/23 18:25	05/10/23 23:26	1
4-Bromofluorobenzene (Surr)	92		72 - 126	05/10/23 18:25	05/10/23 23:26	1
Dibromofluoromethane (Surr)	102		60 - 140	05/10/23 18:25	05/10/23 23:26	1
Toluene-d8 (Surr)	92		71 - 125	05/10/23 18:25	05/10/23 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2100	U	2100	1200	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
2-Methylphenol	3600	U	3600	420	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
3-Methylphenol	6900	U	6900	540	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
4-Methylphenol	6900	U	6900	420	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Acenaphthene	11000		3600	520	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Acenaphthylene	2500	J	3600	460	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Anthracene	22000		3600	880	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Benzo[a]anthracene	28000		3600	360	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Benzo[a]pyrene	27000		3600	520	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Benzo[b]fluoranthene	24000		3600	570	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Benzo[g,h,i]perylene	16000		3600	380	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Benzo[k]fluoranthene	14000		3600	460	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Chrysene	27000		3600	800	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Dibenz(a,h)anthracene	4800		3600	630	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Dibenzofuran	6800		3600	420	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Fluoranthene	80000		3600	380	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Fluorene	11000		3600	420	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Hexachlorobenzene	3600	U	3600	480	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Indeno[1,2,3-cd]pyrene	15000		3600	440	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-03

Date Collected: 05/09/23 11:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-3

Matrix: Solid

Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	13000		3600	460	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Pentachlorophenol	6900	U	6900	3600	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Phenanthrene	76000		3600	520	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Phenol	3600	U	3600	540	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Pyrene	47000		3600	420	ug/Kg	☆	05/11/23 15:59	05/12/23 18:14	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		54 - 120				05/11/23 15:59	05/12/23 18:14	20
2-Fluorobiphenyl (Surr)	71		60 - 120				05/11/23 15:59	05/12/23 18:14	20
2-Fluorophenol (Surr)	81		52 - 120				05/11/23 15:59	05/12/23 18:14	20
Nitrobenzene-d5 (Surr)	88		53 - 120				05/11/23 15:59	05/12/23 18:14	20
Phenol-d5 (Surr)	73		54 - 120				05/11/23 15:59	05/12/23 18:14	20
p-Terphenyl-d14 (Surr)	87		79 - 130				05/11/23 15:59	05/12/23 18:14	20

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		2.2	0.44	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Barium	60.0		0.55	0.12	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Beryllium	0.33		0.22	0.031	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Cadmium	0.45		0.22	0.033	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Chromium	11.0		0.55	0.22	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Copper	16.6		1.1	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Lead	63.3	F1 F2	1.1	0.26	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Manganese	569	B	0.22	0.035	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Nickel	9.0		5.5	0.25	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Silver	0.66	U	0.66	0.22	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1
Zinc	75.3	F1	2.2	0.70	mg/Kg	☆	05/11/23 10:23	05/12/23 21:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.021	0.0049	mg/Kg	☆	05/12/23 09:47	05/12/23 13:10	1

Client Sample ID: MS-04

Date Collected: 05/09/23 12:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-4

Matrix: Solid

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.4	U vs	5.4	0.39	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,1-Dichloroethane	5.4	U vs	5.4	0.66	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,1-Dichloroethene	5.4	U vs	5.4	0.66	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,2,4-Trimethylbenzene	5.4	U vs	5.4	1.0	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,2-Dichlorobenzene	5.4	U vs	5.4	0.42	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,2-Dichloroethane	5.4	U vs	5.4	0.27	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,3,5-Trimethylbenzene	5.4	U vs	5.4	0.35	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,3-Dichlorobenzene	5.4	U vs	5.4	0.28	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,4-Dichlorobenzene	5.4	U vs	5.4	0.76	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
1,4-Dioxane	110	U vs	110	24	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
2-Butanone (MEK)	27	U vs	27	2.0	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1
Acetone	27	U vs	27	4.6	ug/Kg	☆	05/10/23 18:25	05/10/23 23:50	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-04

Lab Sample ID: 480-208767-4

Date Collected: 05/09/23 12:20

Matrix: Solid

Date Received: 05/10/23 17:00

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.4	U vs	5.4	0.27	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Carbon tetrachloride	5.4	U vs	5.4	0.53	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Chlorobenzene	5.4	U vs	5.4	0.72	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Chloroform	5.4	U vs	5.4	0.34	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
cis-1,2-Dichloroethene	5.4	U vs	5.4	0.69	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Ethylbenzene	5.4	U vs	5.4	0.37	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Methyl tert-butyl ether	5.4	U vs	5.4	0.53	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Methylene Chloride	5.4	U vs	5.4	2.5	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
n-Butylbenzene	5.4	U vs	5.4	0.47	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
N-Propylbenzene	5.4	U vs	5.4	0.43	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
sec-Butylbenzene	5.4	U vs	5.4	0.47	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
tert-Butylbenzene	5.4	U vs	5.4	0.56	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Tetrachloroethene	5.4	U vs	5.4	0.73	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Toluene	5.4	U vs	5.4	0.41	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
trans-1,2-Dichloroethene	5.4	U vs	5.4	0.56	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Trichloroethene	5.4	U vs	5.4	1.2	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Vinyl chloride	5.4	U vs	5.4	0.66	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1
Xylenes, Total	11	U vs	11	0.91	ug/Kg	✱	05/10/23 18:25	05/10/23 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	05/10/23 18:25	05/10/23 23:50	1
4-Bromofluorobenzene (Surr)	93		72 - 126	05/10/23 18:25	05/10/23 23:50	1
Dibromofluoromethane (Surr)	99		60 - 140	05/10/23 18:25	05/10/23 23:50	1
Toluene-d8 (Surr)	93		71 - 125	05/10/23 18:25	05/10/23 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	600	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
2-Methylphenol	1900	U	1900	220	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
3-Methylphenol	3600	U	3600	290	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
4-Methylphenol	3600	U	3600	220	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Acenaphthene	460	J	1900	270	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Acenaphthylene	1900	U	1900	240	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Anthracene	850	J	1900	460	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Benzo[a]anthracene	1700	J	1900	190	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Benzo[a]pyrene	1700	J	1900	270	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Benzo[b]fluoranthene	1900		1900	300	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Benzo[g,h,i]perylene	1200	J	1900	200	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Benzo[k]fluoranthene	860	J	1900	240	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Chrysene	1800	J	1900	420	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Dibenz(a,h)anthracene	370	J	1900	330	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Dibenzofuran	330	J	1900	220	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Fluoranthene	4600		1900	200	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Fluorene	390	J	1900	220	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Hexachlorobenzene	1900	U	1900	250	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Indeno[1,2,3-cd]pyrene	1000	J	1900	230	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Naphthalene	1900	U	1900	240	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Pentachlorophenol	3600	U	3600	1900	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Phenanthrene	3300		1900	270	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10
Phenol	1900	U	1900	290	ug/Kg	✱	05/11/23 15:59	05/12/23 18:38	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-04

Date Collected: 05/09/23 12:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-4

Matrix: Solid

Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	2800		1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 18:38	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		54 - 120				05/11/23 15:59	05/12/23 18:38	10
2-Fluorobiphenyl (Surr)	68		60 - 120				05/11/23 15:59	05/12/23 18:38	10
2-Fluorophenol (Surr)	63		52 - 120				05/11/23 15:59	05/12/23 18:38	10
Nitrobenzene-d5 (Surr)	76		53 - 120				05/11/23 15:59	05/12/23 18:38	10
Phenol-d5 (Surr)	68		54 - 120				05/11/23 15:59	05/12/23 18:38	10
p-Terphenyl-d14 (Surr)	67	S1-	79 - 130				05/11/23 15:59	05/12/23 18:38	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		2.3	0.47	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Barium	222		0.58	0.13	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Beryllium	0.58		0.23	0.033	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Cadmium	0.38		0.23	0.035	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Chromium	17.0		0.58	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Copper	28.2		1.2	0.25	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Lead	89.9		1.2	0.28	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Manganese	392	B	0.23	0.037	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Nickel	17.3		5.8	0.27	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Selenium	4.7	U	4.7	0.47	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Silver	0.70	U	0.70	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1
Zinc	128		2.3	0.75	mg/Kg	☆	05/11/23 10:23	05/12/23 22:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.022	0.0051	mg/Kg	☆	05/12/23 09:47	05/12/23 13:12	1

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6	U vs	5.6	0.41	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,1-Dichloroethane	5.6	U vs	5.6	0.68	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,1-Dichloroethene	5.6	U vs	5.6	0.68	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,2,4-Trimethylbenzene	5.6	U vs	5.6	1.1	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,2-Dichlorobenzene	5.6	U vs	5.6	0.44	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,2-Dichloroethane	5.6	U vs	5.6	0.28	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,3,5-Trimethylbenzene	5.6	U vs	5.6	0.36	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,3-Dichlorobenzene	5.6	U vs	5.6	0.29	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,4-Dichlorobenzene	5.6	U vs	5.6	0.78	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
1,4-Dioxane	110	U vs	110	24	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
2-Butanone (MEK)	28	U vs	28	2.0	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Acetone	28	U vs	28	4.7	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Benzene	5.6	U vs	5.6	0.27	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Carbon tetrachloride	5.6	U vs	5.6	0.54	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Chlorobenzene	5.6	U vs	5.6	0.74	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Chloroform	5.6	U vs	5.6	0.35	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	5.6	U vs	5.6	0.72	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Ethylbenzene	5.6	U vs	5.6	0.39	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Methyl tert-butyl ether	5.6	U vs	5.6	0.55	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Methylene Chloride	5.6	U vs	5.6	2.6	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
n-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
N-Propylbenzene	5.6	U vs	5.6	0.45	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
sec-Butylbenzene	5.6	U vs	5.6	0.49	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
tert-Butylbenzene	5.6	U vs	5.6	0.58	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Tetrachloroethene	5.6	U vs	5.6	0.75	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Toluene	5.6	U vs	5.6	0.42	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
trans-1,2-Dichloroethene	5.6	U vs	5.6	0.58	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Trichloroethene	5.6	U vs	5.6	1.2	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Vinyl chloride	5.6	U vs	5.6	0.68	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1
Xylenes, Total	11	U vs	11	0.94	ug/Kg	☆	05/10/23 18:25	05/11/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	05/10/23 18:25	05/11/23 00:14	1
4-Bromofluorobenzene (Surr)	92		72 - 126	05/10/23 18:25	05/11/23 00:14	1
Dibromofluoromethane (Surr)	98		60 - 140	05/10/23 18:25	05/11/23 00:14	1
Toluene-d8 (Surr)	93		71 - 125	05/10/23 18:25	05/11/23 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1100	U	1100	610	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
2-Methylphenol	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
3-Methylphenol	3700	U	3700	290	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
4-Methylphenol	3700	U	3700	220	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Acenaphthene	1900	U	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Acenaphthylene	1900	U	1900	250	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Anthracene	470	J	1900	470	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Benzo[a]anthracene	1200	J	1900	190	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Benzo[a]pyrene	1300	J	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Benzo[b]fluoranthene	1400	J	1900	300	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Benzo[g,h,i]perylene	780	J	1900	200	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Benzo[k]fluoranthene	880	J	1900	250	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Chrysene	1400	J	1900	420	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Dibenz(a,h)anthracene	1900	U	1900	330	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Dibenzofuran	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Fluoranthene	3000		1900	200	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Fluorene	1900	U	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Hexachlorobenzene	1900	U	1900	260	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Indeno[1,2,3-cd]pyrene	850	J	1900	230	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Naphthalene	1900	U	1900	250	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Pentachlorophenol	3700	U	3700	1900	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Phenanthrene	1400	J	1900	280	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Phenol	1900	U	1900	290	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10
Pyrene	1700	J	1900	220	ug/Kg	☆	05/11/23 15:59	05/12/23 19:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		54 - 120	05/11/23 15:59	05/12/23 19:03	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Percent Solids: 88.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		60 - 120	05/11/23 15:59	05/12/23 19:03	10
2-Fluorophenol (Surr)	59		52 - 120	05/11/23 15:59	05/12/23 19:03	10
Nitrobenzene-d5 (Surr)	66		53 - 120	05/11/23 15:59	05/12/23 19:03	10
Phenol-d5 (Surr)	78		54 - 120	05/11/23 15:59	05/12/23 19:03	10
p-Terphenyl-d14 (Surr)	77	S1-	79 - 130	05/11/23 15:59	05/12/23 19:03	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.5		2.1	0.43	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Barium	99.2		0.53	0.12	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Beryllium	0.81		0.21	0.030	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Cadmium	0.43		0.21	0.032	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Chromium	20.0		0.53	0.21	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Copper	34.9		1.1	0.22	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Lead	97.9		1.1	0.26	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Manganese	421	B	0.21	0.034	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Nickel	25.7		5.3	0.24	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Selenium	0.43	J	4.3	0.43	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Silver	0.64	U	0.64	0.21	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1
Zinc	108		2.1	0.68	mg/Kg	☆	05/11/23 10:23	05/12/23 22:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.079		0.020	0.0045	mg/Kg	☆	05/12/23 09:47	05/12/23 13:13	1

Client Sample ID: MS-06

Date Collected: 05/09/23 13:45

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-6

Matrix: Solid

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.5	U vs	5.5	0.40	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,1-Dichloroethane	5.5	U vs	5.5	0.67	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,1-Dichloroethene	5.5	U vs	5.5	0.67	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,2,4-Trimethylbenzene	5.5	U vs F1	5.5	1.0	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,2-Dichlorobenzene	5.5	U vs F1	5.5	0.43	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,2-Dichloroethane	5.5	U vs F1	5.5	0.27	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,3,5-Trimethylbenzene	5.5	U vs F1	5.5	0.35	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,3-Dichlorobenzene	5.5	U vs F1	5.5	0.28	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,4-Dichlorobenzene	5.5	U vs F1	5.5	0.76	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
1,4-Dioxane	110	U vs F1	110	24	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
2-Butanone (MEK)	27	U vs F1	27	2.0	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Acetone	27	U vs	27	4.6	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Benzene	5.5	U vs	5.5	0.27	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Carbon tetrachloride	5.5	U vs	5.5	0.53	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Chlorobenzene	5.5	U vs F1	5.5	0.72	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Chloroform	5.5	U vs	5.5	0.34	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
cis-1,2-Dichloroethene	5.5	U vs	5.5	0.70	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Ethylbenzene	5.5	U vs F1	5.5	0.38	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Methyl tert-butyl ether	5.5	U vs	5.5	0.54	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-06

Date Collected: 05/09/23 13:45

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-6

Matrix: Solid

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.5	U vs	5.5	2.5	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
n-Butylbenzene	5.5	U vs F1	5.5	0.47	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
N-Propylbenzene	5.5	U vs F1	5.5	0.44	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
sec-Butylbenzene	5.5	U vs F1	5.5	0.47	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
tert-Butylbenzene	5.5	U vs F1	5.5	0.57	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Tetrachloroethene	5.5	U vs F1	5.5	0.73	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Toluene	5.5	U vs F1	5.5	0.41	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
trans-1,2-Dichloroethene	5.5	U vs	5.5	0.56	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Trichloroethene	5.5	U vs F1	5.5	1.2	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Vinyl chloride	5.5	U vs	5.5	0.67	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1
Xylenes, Total	11	U vs F1	11	0.92	ug/Kg	☆	05/10/23 18:25	05/11/23 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	05/10/23 18:25	05/11/23 00:39	1
4-Bromofluorobenzene (Surr)	91		72 - 126	05/10/23 18:25	05/11/23 00:39	1
Dibromofluoromethane (Surr)	99		60 - 140	05/10/23 18:25	05/11/23 00:39	1
Toluene-d8 (Surr)	92		71 - 125	05/10/23 18:25	05/11/23 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	60	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
2-Methylphenol	190	U	190	22	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
3-Methylphenol	360	U	360	28	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
4-Methylphenol	360	U	360	22	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Acenaphthene	190		190	27	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Acenaphthylene	120	J	190	24	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Anthracene	550		190	46	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Benzo[a]anthracene	1100		190	19	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Benzo[a]pyrene	1100		190	27	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Benzo[b]fluoranthene	1100		190	29	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Benzo[g,h,i]perylene	620		190	20	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Benzo[k]fluoranthene	620		190	24	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Chrysene	1100		190	41	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Dibenz(a,h)anthracene	210		190	33	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Dibenzofuran	180	J	190	22	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Fluoranthene	2600		190	20	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Fluorene	260		190	22	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Indeno[1,2,3-cd]pyrene	620		190	23	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Naphthalene	210		190	24	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Pentachlorophenol	360	U	360	190	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Phenanthrene	2000		190	27	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Phenol	190	U	190	28	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1
Pyrene	1800		190	22	ug/Kg	☆	05/11/23 15:59	05/12/23 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	05/11/23 15:59	05/12/23 19:28	1
2-Fluorobiphenyl (Surr)	85		60 - 120	05/11/23 15:59	05/12/23 19:28	1
2-Fluorophenol (Surr)	75		52 - 120	05/11/23 15:59	05/12/23 19:28	1
Nitrobenzene-d5 (Surr)	80		53 - 120	05/11/23 15:59	05/12/23 19:28	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-06

Date Collected: 05/09/23 13:45

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-6

Matrix: Solid

Percent Solids: 90.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	83		54 - 120	05/11/23 15:59	05/12/23 19:28	1
p-Terphenyl-d14 (Surr)	81		79 - 130	05/11/23 15:59	05/12/23 19:28	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	499		2.3	0.46	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Barium	50.8		0.57	0.13	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Beryllium	0.15	J	0.23	0.032	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Cadmium	0.28		0.23	0.034	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Chromium	90.3		2.9	1.1	mg/Kg	☆	05/11/23 10:23	05/16/23 13:57	5
Copper	850		1.1	0.24	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Lead	565		5.7	1.4	mg/Kg	☆	05/11/23 10:23	05/16/23 13:57	5
Manganese	439	B	0.23	0.037	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Nickel	33.3		28.5	1.3	mg/Kg	☆	05/11/23 10:23	05/16/23 13:57	5
Selenium	2.8	J	4.6	0.46	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Silver	0.68	U	0.68	0.23	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1
Zinc	169		2.3	0.73	mg/Kg	☆	05/11/23 10:23	05/12/23 22:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.023	0.0052	mg/Kg	☆	05/12/23 09:47	05/12/23 13:17	1

Client Sample ID: MS-07

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.0	U	2.0	1.6	ug/L			05/11/23 20:10	2
1,1-Dichloroethane	2.0	U	2.0	0.76	ug/L			05/11/23 20:10	2
1,1-Dichloroethene	2.0	U	2.0	0.58	ug/L			05/11/23 20:10	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			05/11/23 20:10	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			05/11/23 20:10	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			05/11/23 20:10	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			05/11/23 20:10	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			05/11/23 20:10	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			05/11/23 20:10	2
1,4-Dioxane	80	U	80	19	ug/L			05/11/23 20:10	2
2-Butanone (MEK)	20	U	20	2.6	ug/L			05/11/23 20:10	2
Acetone	10	J	20	6.0	ug/L			05/11/23 20:10	2
Benzene	2.0	U	2.0	0.82	ug/L			05/11/23 20:10	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			05/11/23 20:10	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			05/11/23 20:10	2
Chloroform	1.4	J	2.0	0.68	ug/L			05/11/23 20:10	2
cis-1,2-Dichloroethene	2.0	U	2.0	1.6	ug/L			05/11/23 20:10	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			05/11/23 20:10	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			05/11/23 20:10	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			05/11/23 20:10	2
n-Butylbenzene	2.0	U	2.0	1.3	ug/L			05/11/23 20:10	2
N-Propylbenzene	2.0	U	2.0	1.4	ug/L			05/11/23 20:10	2

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-07

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	2.0	U	2.0	1.5	ug/L			05/11/23 20:10	2
tert-Butylbenzene	2.0	U	2.0	1.6	ug/L			05/11/23 20:10	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			05/11/23 20:10	2
Toluene	2.0	U	2.0	1.0	ug/L			05/11/23 20:10	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			05/11/23 20:10	2
Trichloroethene	2.0	U	2.0	0.92	ug/L			05/11/23 20:10	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			05/11/23 20:10	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			05/11/23 20:10	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					05/11/23 20:10	2
4-Bromofluorobenzene (Surr)	88		73 - 120					05/11/23 20:10	2
Dibromofluoromethane (Surr)	90		75 - 123					05/11/23 20:10	2
Toluene-d8 (Surr)	94		80 - 120					05/11/23 20:10	2

Client Sample ID: MS-08

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/11/23 20:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/11/23 20:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/11/23 20:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/11/23 20:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/11/23 20:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/11/23 20:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/11/23 20:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/11/23 20:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/11/23 20:32	1
1,4-Dioxane	40	U	40	9.3	ug/L			05/11/23 20:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/11/23 20:32	1
Acetone	6.2	J	10	3.0	ug/L			05/11/23 20:32	1
Benzene	0.49	J	1.0	0.41	ug/L			05/11/23 20:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/11/23 20:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/11/23 20:32	1
Chloroform	1.4		1.0	0.34	ug/L			05/11/23 20:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/11/23 20:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/11/23 20:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/11/23 20:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/11/23 20:32	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			05/11/23 20:32	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			05/11/23 20:32	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			05/11/23 20:32	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			05/11/23 20:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/11/23 20:32	1
Toluene	0.69	J	1.0	0.51	ug/L			05/11/23 20:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/11/23 20:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 20:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/11/23 20:32	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-08

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/11/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					05/11/23 20:32	1
4-Bromofluorobenzene (Surr)	88		73 - 120					05/11/23 20:32	1
Dibromofluoromethane (Surr)	90		75 - 123					05/11/23 20:32	1
Toluene-d8 (Surr)	93		80 - 120					05/11/23 20:32	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-208767-1	MS-01	101	93	97	93
480-208767-2	MS-02	100	93	99	92
480-208767-3	MS-03	103	92	102	92
480-208767-4	MS-04	103	93	99	93
480-208767-5	MS-05	101	92	98	93
480-208767-6	MS-06	101	91	99	92
480-208767-6 MS	MS-06	90	88	97	94
480-208767-6 MSD	MS-06	89	90	97	95
LCS 480-669001/1-A	Lab Control Sample	95	92	96	94
MB 480-669001/2-A	Method Blank	96	93	97	93

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-208767-7	MS-07	106	88	90	94
480-208767-8	MS-08	105	88	90	93
LCS 480-669106/6	Lab Control Sample	106	91	94	95
MB 480-669106/8	Method Blank	105	87	96	95

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-208767-1	MS-01	76	84	86	80	73	69 S1-
480-208767-2	MS-02	91	79	83	89	87	83
480-208767-3	MS-03	113	71	81	88	73	87
480-208767-4	MS-04	81	68	63	76	68	67 S1-
480-208767-5	MS-05	104	60	59	66	78	77 S1-
480-208767-6	MS-06	96	85	75	80	83	81
LCS 480-669176/2-A	Lab Control Sample	93	84	76	78	77	100
MB 480-669176/1-A	Method Blank	84	84	80	78	87	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 480-208767-1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: MB 480-669001/2-A

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669001

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
1,4-Dioxane	100	U	100	22	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Acetone	25	U	25	4.2	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Benzene	5.0	U	5.0	0.25	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Toluene	5.0	U	5.0	0.38	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		05/10/23 18:25	05/10/23 21:49	1
Xylenes, Total	10	U	10	0.84	ug/Kg		05/10/23 18:25	05/10/23 21:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		64 - 126	05/10/23 18:25	05/10/23 21:49	1
4-Bromofluorobenzene (Surr)	93		72 - 126	05/10/23 18:25	05/10/23 21:49	1
Dibromofluoromethane (Surr)	97		60 - 140	05/10/23 18:25	05/10/23 21:49	1
Toluene-d8 (Surr)	93		71 - 125	05/10/23 18:25	05/10/23 21:49	1

Lab Sample ID: LCS 480-669001/1-A

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	49.4		ug/Kg		99	77 - 121
1,1-Dichloroethane	50.0	54.8		ug/Kg		110	73 - 126
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	59 - 125
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	74 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	49.7		ug/Kg		99	77 - 122

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: LCS 480-669001/1-A

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	50.0	50.6		ug/Kg		101	74 - 120
1,3-Dichlorobenzene	50.0	46.5		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	45.8		ug/Kg		92	73 - 120
1,4-Dioxane	1000	1090		ug/Kg		109	64 - 124
2-Butanone (MEK)	250	292		ug/Kg		117	70 - 134
Acetone	250	279		ug/Kg		112	61 - 137
Benzene	50.0	52.2		ug/Kg		104	79 - 127
Carbon tetrachloride	50.0	46.4		ug/Kg		93	75 - 135
Chlorobenzene	50.0	45.9		ug/Kg		92	76 - 124
Chloroform	50.0	49.0		ug/Kg		98	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	81 - 120
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 120
Methyl tert-butyl ether	50.0	52.3		ug/Kg		105	63 - 125
Methylene Chloride	50.0	53.3		ug/Kg		107	61 - 127
n-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 120
N-Propylbenzene	50.0	51.8		ug/Kg		104	70 - 130
sec-Butylbenzene	50.0	50.5		ug/Kg		101	74 - 120
tert-Butylbenzene	50.0	48.9		ug/Kg		98	73 - 120
Tetrachloroethene	50.0	44.7		ug/Kg		89	74 - 122
Toluene	50.0	47.3		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	78 - 126
Trichloroethene	50.0	49.9		ug/Kg		100	77 - 129
Vinyl chloride	50.0	53.2		ug/Kg		106	61 - 133
Xylenes, Total	100	93.4		ug/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		64 - 126
4-Bromofluorobenzene (Surr)	92		72 - 126
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	94		71 - 125

Lab Sample ID: 480-208767-6 MS

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: MS-06

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	5.5	U vs	55.3	49.3	vs	ug/Kg	☼	89	77 - 121
1,1-Dichloroethane	5.5	U vs	55.3	53.5	vs	ug/Kg	☼	97	73 - 126
1,1-Dichloroethene	5.5	U vs	55.3	50.2	vs	ug/Kg	☼	91	59 - 125
1,2,4-Trimethylbenzene	5.5	U vs F1	55.3	33.0	vs F1	ug/Kg	☼	60	74 - 120
1,2-Dichlorobenzene	5.5	U vs F1	55.3	25.5	vs F1	ug/Kg	☼	46	75 - 120
1,2-Dichloroethane	5.5	U vs F1	55.3	42.0	vs F1	ug/Kg	☼	76	77 - 122
1,3,5-Trimethylbenzene	5.5	U vs F1	55.3	35.1	vs F1	ug/Kg	☼	63	74 - 120
1,3-Dichlorobenzene	5.5	U vs F1	55.3	24.7	vs F1	ug/Kg	☼	45	74 - 120
1,4-Dichlorobenzene	5.5	U vs F1	55.3	23.7	vs F1	ug/Kg	☼	43	73 - 120
1,4-Dioxane	110	U vs F1	1110	620	vs F1	ug/Kg	☼	56	64 - 124
2-Butanone (MEK)	27	U vs F1	277	175	vs F1	ug/Kg	☼	63	70 - 134
Acetone	27	U vs	277	169	vs	ug/Kg	☼	61	61 - 137

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: 480-208767-6 MS

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: MS-06

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	5.5	U vs	55.3	48.9	vs	ug/Kg	✱	88	79 - 127
Carbon tetrachloride	5.5	U vs	55.3	43.3	vs	ug/Kg	✱	78	75 - 135
Chlorobenzene	5.5	U vs F1	55.3	33.3	vs F1	ug/Kg	✱	60	76 - 124
Chloroform	5.5	U vs	55.3	47.6	vs	ug/Kg	✱	86	80 - 120
cis-1,2-Dichloroethene	5.5	U vs	55.3	46.3	vs	ug/Kg	✱	84	80 - 120
Ethylbenzene	5.5	U vs F1	55.3	35.8	vs F1	ug/Kg	✱	65	80 - 120
Methyl tert-butyl ether	5.5	U vs	55.3	44.7	vs	ug/Kg	✱	81	63 - 125
Methylene Chloride	5.5	U vs	55.3	51.5	vs	ug/Kg	✱	93	61 - 127
n-Butylbenzene	5.5	U vs F1	55.3	19.7	vs F1	ug/Kg	✱	36	70 - 120
N-Propylbenzene	5.5	U vs F1	55.3	32.4	vs F1	ug/Kg	✱	59	70 - 130
sec-Butylbenzene	5.5	U vs F1	55.3	29.1	vs F1	ug/Kg	✱	53	74 - 120
tert-Butylbenzene	5.5	U vs F1	55.3	35.4	vs F1	ug/Kg	✱	64	73 - 120
Tetrachloroethene	5.5	U vs F1	55.3	32.4	vs F1	ug/Kg	✱	59	74 - 122
Toluene	5.5	U vs F1	55.3	40.2	vs F1	ug/Kg	✱	73	74 - 128
trans-1,2-Dichloroethene	5.5	U vs	55.3	44.4	vs	ug/Kg	✱	80	78 - 126
Trichloroethene	5.5	U vs F1	55.3	41.1	vs F1	ug/Kg	✱	74	77 - 129
Vinyl chloride	5.5	U vs	55.3	56.8	vs	ug/Kg	✱	103	61 - 133
Xylenes, Total	11	U vs F1	111	70.3	vs F1	ug/Kg	✱	64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 126
4-Bromofluorobenzene (Surr)	88		72 - 126
Dibromofluoromethane (Surr)	97		60 - 140
Toluene-d8 (Surr)	94		71 - 125

Lab Sample ID: 480-208767-6 MSD

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: MS-06

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	5.5	U vs	55.4	48.5	vs	ug/Kg	✱	88	77 - 121	2	30
1,1-Dichloroethane	5.5	U vs	55.4	55.0	vs	ug/Kg	✱	99	73 - 126	3	30
1,1-Dichloroethene	5.5	U vs	55.4	52.0	vs	ug/Kg	✱	94	59 - 125	3	30
1,2,4-Trimethylbenzene	5.5	U vs F1	55.4	34.0	vs F1	ug/Kg	✱	61	74 - 120	3	30
1,2-Dichlorobenzene	5.5	U vs F1	55.4	27.4	vs F1	ug/Kg	✱	50	75 - 120	7	30
1,2-Dichloroethane	5.5	U vs F1	55.4	43.6	vs	ug/Kg	✱	79	77 - 122	4	30
1,3,5-Trimethylbenzene	5.5	U vs F1	55.4	35.7	vs F1	ug/Kg	✱	64	74 - 120	2	30
1,3-Dichlorobenzene	5.5	U vs F1	55.4	26.8	vs F1	ug/Kg	✱	48	74 - 120	8	30
1,4-Dichlorobenzene	5.5	U vs F1	55.4	26.2	vs F1	ug/Kg	✱	47	73 - 120	10	30
1,4-Dioxane	110	U vs F1	1110	685	vs F1	ug/Kg	✱	62	64 - 124	10	30
2-Butanone (MEK)	27	U vs F1	277	181	vs F1	ug/Kg	✱	65	70 - 134	3	30
Acetone	27	U vs	277	172	vs	ug/Kg	✱	62	61 - 137	2	30
Benzene	5.5	U vs	55.4	50.8	vs	ug/Kg	✱	92	79 - 127	4	30
Carbon tetrachloride	5.5	U vs	55.4	45.1	vs	ug/Kg	✱	81	75 - 135	4	30
Chlorobenzene	5.5	U vs F1	55.4	35.4	vs F1	ug/Kg	✱	64	76 - 124	6	30
Chloroform	5.5	U vs	55.4	48.6	vs	ug/Kg	✱	88	80 - 120	2	30
cis-1,2-Dichloroethene	5.5	U vs	55.4	46.9	vs	ug/Kg	✱	85	80 - 120	1	30
Ethylbenzene	5.5	U vs F1	55.4	38.5	vs F1	ug/Kg	✱	70	80 - 120	7	30

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: 480-208767-6 MSD

Matrix: Solid

Analysis Batch: 669002

Client Sample ID: MS-06

Prep Type: Total/NA

Prep Batch: 669001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methyl tert-butyl ether	5.5	U vs	55.4	45.2	vs	ug/Kg	✱	82	63 - 125	1	30
Methylene Chloride	5.5	U vs	55.4	51.1	vs	ug/Kg	✱	92	61 - 127	1	30
n-Butylbenzene	5.5	U vs F1	55.4	20.9	vs F1	ug/Kg	✱	38	70 - 120	6	30
N-Propylbenzene	5.5	U vs F1	55.4	33.6	vs F1	ug/Kg	✱	61	70 - 130	3	30
sec-Butylbenzene	5.5	U vs F1	55.4	29.3	vs F1	ug/Kg	✱	53	74 - 120	1	30
tert-Butylbenzene	5.5	U vs F1	55.4	35.3	vs F1	ug/Kg	✱	64	73 - 120	0	30
Tetrachloroethene	5.5	U vs F1	55.4	34.9	vs F1	ug/Kg	✱	63	74 - 122	8	30
Toluene	5.5	U vs F1	55.4	41.5	vs	ug/Kg	✱	75	74 - 128	3	30
trans-1,2-Dichloroethene	5.5	U vs	55.4	46.4	vs	ug/Kg	✱	84	78 - 126	5	30
Trichloroethene	5.5	U vs F1	55.4	42.8	vs	ug/Kg	✱	77	77 - 129	4	30
Vinyl chloride	5.5	U vs	55.4	56.4	vs	ug/Kg	✱	102	61 - 133	1	30
Xylenes, Total	11	U vs F1	111	73.9	vs F1	ug/Kg	✱	67	70 - 130	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		64 - 126
4-Bromofluorobenzene (Surr)	90		72 - 126
Dibromofluoromethane (Surr)	97		60 - 140
Toluene-d8 (Surr)	95		71 - 125

Lab Sample ID: MB 480-669106/8

Matrix: Water

Analysis Batch: 669106

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	1.0	U	1.0	0.82	ug/L			05/11/23 13:43	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/11/23 13:43	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/11/23 13:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/11/23 13:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/11/23 13:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/11/23 13:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/11/23 13:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/11/23 13:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/11/23 13:43	1
1,4-Dioxane	40	U	40	9.3	ug/L			05/11/23 13:43	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/11/23 13:43	1
Acetone	10	U	10	3.0	ug/L			05/11/23 13:43	1
Benzene	1.0	U	1.0	0.41	ug/L			05/11/23 13:43	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/11/23 13:43	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/11/23 13:43	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/11/23 13:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/11/23 13:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/11/23 13:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/11/23 13:43	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/11/23 13:43	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			05/11/23 13:43	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			05/11/23 13:43	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			05/11/23 13:43	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			05/11/23 13:43	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: MB 480-669106/8

Matrix: Water

Analysis Batch: 669106

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/11/23 13:43	1
Toluene	1.0	U	1.0	0.51	ug/L			05/11/23 13:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/11/23 13:43	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/11/23 13:43	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/11/23 13:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/11/23 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		05/11/23 13:43	1
4-Bromofluorobenzene (Surr)	87		73 - 120		05/11/23 13:43	1
Dibromofluoromethane (Surr)	96		75 - 123		05/11/23 13:43	1
Toluene-d8 (Surr)	95		80 - 120		05/11/23 13:43	1

Lab Sample ID: LCS 480-669106/6

Matrix: Water

Analysis Batch: 669106

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	23.2		ug/L		93	73 - 126
1,1-Dichloroethane	25.0	26.2		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	22.7		ug/L		91	66 - 127
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		104	76 - 121
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		101	77 - 121
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 120
1,4-Dioxane	500	425		ug/L		85	50 - 150
2-Butanone (MEK)	125	133		ug/L		107	57 - 140
Acetone	125	141		ug/L		113	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Carbon tetrachloride	25.0	23.4		ug/L		94	72 - 134
Chlorobenzene	25.0	22.4		ug/L		90	80 - 120
Chloroform	25.0	25.1		ug/L		100	73 - 127
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	74 - 124
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylene Chloride	25.0	25.6		ug/L		102	75 - 124
n-Butylbenzene	25.0	26.6		ug/L		106	71 - 128
N-Propylbenzene	25.0	25.8		ug/L		103	75 - 127
sec-Butylbenzene	25.0	26.3		ug/L		105	74 - 127
tert-Butylbenzene	25.0	23.8		ug/L		95	75 - 123
Tetrachloroethene	25.0	22.1		ug/L		89	74 - 122
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
Trichloroethene	25.0	22.4		ug/L		90	74 - 123
Vinyl chloride	25.0	26.8		ug/L		107	65 - 133
Xylenes, Total	50.0	45.5		ug/L		91	76 - 122

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: LCS 480-669106/6

Matrix: Water

Analysis Batch: 669106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123
Toluene-d8 (Surr)	95		80 - 120

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

Lab Sample ID: MB 480-669176/1-A

Matrix: Solid

Analysis Batch: 669244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	97	U	97	54	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
2-Methylphenol	170	U	170	19	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
3-Methylphenol	320	U	320	25	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
4-Methylphenol	320	U	320	19	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Acenaphthene	170	U	170	24	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Acenaphthylene	170	U	170	21	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Anthracene	170	U	170	41	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Benzo[a]pyrene	170	U	170	24	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Benzo[b]fluoranthene	170	U	170	26	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Benzo[k]fluoranthene	170	U	170	21	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Chrysene	170	U	170	37	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Dibenz(a,h)anthracene	170	U	170	29	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Dibenzofuran	170	U	170	19	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Fluoranthene	170	U	170	18	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Fluorene	170	U	170	19	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Hexachlorobenzene	170	U	170	22	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Indeno[1,2,3-cd]pyrene	170	U	170	20	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Naphthalene	170	U	170	21	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Pentachlorophenol	320	U	320	170	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Phenanthrene	170	U	170	24	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Phenol	170	U	170	25	ug/Kg		05/11/23 15:59	05/12/23 12:46	1
Pyrene	170	U	170	19	ug/Kg		05/11/23 15:59	05/12/23 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		54 - 120	05/11/23 15:59	05/12/23 12:46	1
2-Fluorobiphenyl (Surr)	84		60 - 120	05/11/23 15:59	05/12/23 12:46	1
2-Fluorophenol (Surr)	80		52 - 120	05/11/23 15:59	05/12/23 12:46	1
Nitrobenzene-d5 (Surr)	78		53 - 120	05/11/23 15:59	05/12/23 12:46	1
Phenol-d5 (Surr)	87		54 - 120	05/11/23 15:59	05/12/23 12:46	1
p-Terphenyl-d14 (Surr)	100		79 - 130	05/11/23 15:59	05/12/23 12:46	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: LCS 480-669176/2-A

Matrix: Solid

Analysis Batch: 669244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1630	741		ug/Kg		46	23 - 120
2-Methylphenol	1630	1350		ug/Kg		83	54 - 120
3-Methylphenol	1630	1350		ug/Kg		83	55 - 120
4-Methylphenol	1630	1350		ug/Kg		83	55 - 120
Acenaphthene	1630	1490		ug/Kg		92	62 - 120
Acenaphthylene	1630	1640		ug/Kg		101	58 - 121
Anthracene	1630	1590		ug/Kg		98	62 - 120
Benzo[a]anthracene	1630	1600		ug/Kg		98	65 - 120
Benzo[a]pyrene	1630	1640		ug/Kg		101	64 - 120
Benzo[b]fluoranthene	1630	1600		ug/Kg		98	64 - 120
Benzo[g,h,i]perylene	1630	1480		ug/Kg		91	45 - 145
Benzo[k]fluoranthene	1630	1700		ug/Kg		104	65 - 120
Chrysene	1630	1540		ug/Kg		95	64 - 120
Dibenz(a,h)anthracene	1630	1570		ug/Kg		96	54 - 132
Dibenzofuran	1630	1470		ug/Kg		91	63 - 120
Fluoranthene	1630	1740		ug/Kg		107	62 - 120
Fluorene	1630	1510		ug/Kg		93	63 - 120
Hexachlorobenzene	1630	1670		ug/Kg		102	60 - 120
Indeno[1,2,3-cd]pyrene	1630	1500		ug/Kg		92	56 - 134
Naphthalene	1630	1350		ug/Kg		83	55 - 120
Pentachlorophenol	3260	3700		ug/Kg		114	51 - 120
Phenanthrene	1630	1550		ug/Kg		95	60 - 120
Phenol	1630	1370		ug/Kg		84	53 - 120
Pyrene	1630	1790		ug/Kg		110	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	93		54 - 120
2-Fluorobiphenyl (Surr)	84		60 - 120
2-Fluorophenol (Surr)	76		52 - 120
Nitrobenzene-d5 (Surr)	78		53 - 120
Phenol-d5 (Surr)	77		54 - 120
p-Terphenyl-d14 (Surr)	100		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-669049/1-A

Matrix: Solid

Analysis Batch: 669429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	U	2.1	0.41	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Barium	0.51	U	0.51	0.11	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Beryllium	0.21	U	0.21	0.029	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Cadmium	0.21	U	0.21	0.031	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Chromium	0.51	U	0.51	0.21	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Copper	1.0	U	1.0	0.22	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Lead	1.0	U	1.0	0.25	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Manganese	0.163	J	0.21	0.033	mg/Kg		05/11/23 10:23	05/12/23 21:35	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: MB 480-669049/1-A
Matrix: Solid
Analysis Batch: 669429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	5.1	U	5.1	0.24	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Selenium	4.1	U	4.1	0.41	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Silver	0.62	U	0.62	0.21	mg/Kg		05/11/23 10:23	05/12/23 21:35	1
Zinc	2.1	U	2.1	0.66	mg/Kg		05/11/23 10:23	05/12/23 21:35	1

Lab Sample ID: LCSSRM 480-669049/2-A
Matrix: Solid
Analysis Batch: 669429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669049

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	104.6		mg/Kg		81.1	60.9 - 113.2
Barium	169	145.1		mg/Kg		85.9	68.6 - 114.2
Beryllium	137	111.9		mg/Kg		81.7	66.3 - 110.2
Cadmium	227	179.4		mg/Kg		79.0	64.8 - 110.1
Chromium	115	96.43		mg/Kg		83.9	62.4 - 115.7
Copper	76.0	60.07		mg/Kg		79.0	69.5 - 115.8
Lead	74.8	82.60		mg/Kg		110.4	67.0 - 128.9
Manganese	400	361.7		mg/Kg		90.4	70.5 - 115.8
Nickel	282	278.9		mg/Kg		98.9	62.1 - 114.9
Selenium	246	200.5		mg/Kg		81.5	60.2 - 114.6
Silver	87.5	67.04		mg/Kg		76.6	63.7 - 115.4
Zinc	401	314.2		mg/Kg		78.4	62.8 - 116.7

Lab Sample ID: 480-208767-3 MS
Matrix: Solid
Analysis Batch: 669429

Client Sample ID: MS-03
Prep Type: Total/NA
Prep Batch: 669049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.8		44.9	42.73		mg/Kg	✱	87	75 - 125
Barium	60.0		44.9	97.31		mg/Kg	✱	83	75 - 125
Beryllium	0.33		44.9	38.56		mg/Kg	✱	85	75 - 125
Cadmium	0.45		44.9	39.74		mg/Kg	✱	87	75 - 125
Chromium	11.0		44.9	50.68		mg/Kg	✱	88	75 - 125
Copper	16.6		44.9	51.26		mg/Kg	✱	77	75 - 125
Lead	63.3	F1 F2	44.9	89.77	F1	mg/Kg	✱	59	75 - 125
Manganese	569	B	44.9	537.6	4	mg/Kg	✱	-69	75 - 125
Nickel	9.0		44.9	52.77		mg/Kg	✱	97	75 - 125
Selenium	4.4	U	44.9	39.42		mg/Kg	✱	88	75 - 125
Silver	0.66	U	11.2	9.03		mg/Kg	✱	80	75 - 125
Zinc	75.3	F1	44.9	101.5	F1	mg/Kg	✱	58	75 - 125

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Lab Sample ID: 480-208767-3 MSD

Matrix: Solid

Analysis Batch: 669429

Client Sample ID: MS-03

Prep Type: Total/NA

Prep Batch: 669049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.8		44.5	43.80		mg/Kg	✱	90	75 - 125	2	20
Barium	60.0		44.5	102.2		mg/Kg	✱	95	75 - 125	5	20
Beryllium	0.33		44.5	39.43		mg/Kg	✱	88	75 - 125	2	20
Cadmium	0.45		44.5	40.58		mg/Kg	✱	90	75 - 125	2	20
Chromium	11.0		44.5	54.17		mg/Kg	✱	97	75 - 125	7	20
Copper	16.6		44.5	56.52		mg/Kg	✱	90	75 - 125	10	20
Lead	63.3	F1 F2	44.5	113.7	F2	mg/Kg	✱	113	75 - 125	24	20
Manganese	569	B	44.5	578.0	4	mg/Kg	✱	21	75 - 125	7	20
Nickel	9.0		44.5	56.01		mg/Kg	✱	106	75 - 125	6	20
Selenium	4.4	U	44.5	40.12		mg/Kg	✱	90	75 - 125	2	20
Silver	0.66	U	11.1	9.11		mg/Kg	✱	82	75 - 125	1	20
Zinc	75.3	F1	44.5	113.2		mg/Kg	✱	85	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-669224/1-A

Matrix: Solid

Analysis Batch: 669333

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 669224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0045	mg/Kg		05/12/23 09:47	05/12/23 13:01	1

Lab Sample ID: LCSSRM 480-669224/2-A ^10

Matrix: Solid

Analysis Batch: 669333

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 669224

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	12.94		mg/Kg		62.5	38.3 - 110.

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

GC/MS VOA

Prep Batch: 669001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	5035A_L	
480-208767-2	MS-02	Total/NA	Solid	5035A_L	
480-208767-3	MS-03	Total/NA	Solid	5035A_L	
480-208767-4	MS-04	Total/NA	Solid	5035A_L	
480-208767-5	MS-05	Total/NA	Solid	5035A_L	
480-208767-6	MS-06	Total/NA	Solid	5035A_L	
MB 480-669001/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-669001/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-208767-6 MS	MS-06	Total/NA	Solid	5035A_L	
480-208767-6 MSD	MS-06	Total/NA	Solid	5035A_L	

Analysis Batch: 669002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	8260C	669001
480-208767-2	MS-02	Total/NA	Solid	8260C	669001
480-208767-3	MS-03	Total/NA	Solid	8260C	669001
480-208767-4	MS-04	Total/NA	Solid	8260C	669001
480-208767-5	MS-05	Total/NA	Solid	8260C	669001
480-208767-6	MS-06	Total/NA	Solid	8260C	669001
MB 480-669001/2-A	Method Blank	Total/NA	Solid	8260C	669001
LCS 480-669001/1-A	Lab Control Sample	Total/NA	Solid	8260C	669001
480-208767-6 MS	MS-06	Total/NA	Solid	8260C	669001
480-208767-6 MSD	MS-06	Total/NA	Solid	8260C	669001

Analysis Batch: 669106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-7	MS-07	Total/NA	Water	8260C	
480-208767-8	MS-08	Total/NA	Water	8260C	
MB 480-669106/8	Method Blank	Total/NA	Water	8260C	
LCS 480-669106/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 669176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	3550C	
480-208767-2	MS-02	Total/NA	Solid	3550C	
480-208767-3	MS-03	Total/NA	Solid	3550C	
480-208767-4	MS-04	Total/NA	Solid	3550C	
480-208767-5	MS-05	Total/NA	Solid	3550C	
480-208767-6	MS-06	Total/NA	Solid	3550C	
MB 480-669176/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-669176/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 669244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	8270D	669176
480-208767-2	MS-02	Total/NA	Solid	8270D	669176
480-208767-3	MS-03	Total/NA	Solid	8270D	669176
480-208767-4	MS-04	Total/NA	Solid	8270D	669176
480-208767-5	MS-05	Total/NA	Solid	8270D	669176

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

GC/MS Semi VOA (Continued)

Analysis Batch: 669244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-6	MS-06	Total/NA	Solid	8270D	669176
MB 480-669176/1-A	Method Blank	Total/NA	Solid	8270D	669176
LCS 480-669176/2-A	Lab Control Sample	Total/NA	Solid	8270D	669176

Metals

Prep Batch: 669049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	3050B	669049
480-208767-2	MS-02	Total/NA	Solid	3050B	
480-208767-3	MS-03	Total/NA	Solid	3050B	
480-208767-4	MS-04	Total/NA	Solid	3050B	
480-208767-5	MS-05	Total/NA	Solid	3050B	
480-208767-6	MS-06	Total/NA	Solid	3050B	
MB 480-669049/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-669049/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-208767-3 MS	MS-03	Total/NA	Solid	3050B	
480-208767-3 MSD	MS-03	Total/NA	Solid	3050B	

Prep Batch: 669224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	7471B	669224
480-208767-2	MS-02	Total/NA	Solid	7471B	
480-208767-3	MS-03	Total/NA	Solid	7471B	
480-208767-4	MS-04	Total/NA	Solid	7471B	
480-208767-5	MS-05	Total/NA	Solid	7471B	
480-208767-6	MS-06	Total/NA	Solid	7471B	
MB 480-669224/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-669224/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 669333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	7471B	669224
480-208767-2	MS-02	Total/NA	Solid	7471B	669224
480-208767-3	MS-03	Total/NA	Solid	7471B	669224
480-208767-4	MS-04	Total/NA	Solid	7471B	669224
480-208767-5	MS-05	Total/NA	Solid	7471B	669224
480-208767-6	MS-06	Total/NA	Solid	7471B	669224
MB 480-669224/1-A	Method Blank	Total/NA	Solid	7471B	669224
LCSSRM 480-669224/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	669224

Analysis Batch: 669429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	6010C	669049
480-208767-2	MS-02	Total/NA	Solid	6010C	669049
480-208767-3	MS-03	Total/NA	Solid	6010C	669049
480-208767-4	MS-04	Total/NA	Solid	6010C	669049
480-208767-5	MS-05	Total/NA	Solid	6010C	669049
480-208767-6	MS-06	Total/NA	Solid	6010C	669049
MB 480-669049/1-A	Method Blank	Total/NA	Solid	6010C	669049
LCSSRM 480-669049/2-A	Lab Control Sample	Total/NA	Solid	6010C	669049

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Metals (Continued)

Analysis Batch: 669429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-3 MS	MS-03	Total/NA	Solid	6010C	669049
480-208767-3 MSD	MS-03	Total/NA	Solid	6010C	669049

Analysis Batch: 669790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-6	MS-06	Total/NA	Solid	6010C	669049

General Chemistry

Analysis Batch: 668990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-208767-1	MS-01	Total/NA	Solid	Moisture	
480-208767-2	MS-02	Total/NA	Solid	Moisture	
480-208767-3	MS-03	Total/NA	Solid	Moisture	
480-208767-4	MS-04	Total/NA	Solid	Moisture	
480-208767-5	MS-05	Total/NA	Solid	Moisture	
480-208767-6	MS-06	Total/NA	Solid	Moisture	
480-208767-6 DU	MS-06	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-01

Date Collected: 05/09/23 10:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

Client Sample ID: MS-01

Date Collected: 05/09/23 10:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-1

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/10/23 22:37
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		10	669244	JMM	EET BUF	05/12/23 17:23
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 21:43
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:08

Client Sample ID: MS-02

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

Client Sample ID: MS-02

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-2

Matrix: Solid

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/10/23 23:02
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		10	669244	JMM	EET BUF	05/12/23 17:48
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 21:47
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:09

Client Sample ID: MS-03

Date Collected: 05/09/23 11:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-03

Date Collected: 05/09/23 11:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-3

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/10/23 23:26
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		20	669244	JMM	EET BUF	05/12/23 18:14
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 21:51
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:10

Client Sample ID: MS-04

Date Collected: 05/09/23 12:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

Client Sample ID: MS-04

Date Collected: 05/09/23 12:20

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-4

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/10/23 23:50
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		10	669244	JMM	EET BUF	05/12/23 18:38
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 22:22
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:12

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/11/23 00:14
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		10	669244	JMM	EET BUF	05/12/23 19:03

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Client Sample ID: MS-05

Date Collected: 05/09/23 11:00

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-5

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 22:26
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:13

Client Sample ID: MS-06

Date Collected: 05/09/23 13:45

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	668990	JMM	EET BUF	05/11/23 15:45

Client Sample ID: MS-06

Date Collected: 05/09/23 13:45

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-6

Matrix: Solid

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			669001	CDC	EET BUF	05/10/23 18:25
Total/NA	Analysis	8260C		1	669002	CDC	EET BUF	05/11/23 00:39
Total/NA	Prep	3550C			669176	SJM	EET BUF	05/11/23 15:59
Total/NA	Analysis	8270D		1	669244	JMM	EET BUF	05/12/23 19:28
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		1	669429	LMH	EET BUF	05/12/23 22:30
Total/NA	Prep	3050B			669049	VAK	EET BUF	05/11/23 10:23
Total/NA	Analysis	6010C		5	669790	LMH	EET BUF	05/16/23 13:57
Total/NA	Prep	7471B			669224	NVK	EET BUF	05/12/23 09:47
Total/NA	Analysis	7471B		1	669333	NVK	EET BUF	05/12/23 13:17

Client Sample ID: MS-07

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	669106	CR	EET BUF	05/11/23 20:10

Client Sample ID: MS-08

Date Collected: 05/09/23 13:30

Date Received: 05/10/23 17:00

Lab Sample ID: 480-208767-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	669106	CR	EET BUF	05/11/23 20:32

Laboratory References:

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

Eurofins Buffalo

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

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: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-208767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-208767-1	MS-01	Solid	05/09/23 10:30	05/10/23 17:00
480-208767-2	MS-02	Solid	05/09/23 11:00	05/10/23 17:00
480-208767-3	MS-03	Solid	05/09/23 11:20	05/10/23 17:00
480-208767-4	MS-04	Solid	05/09/23 12:20	05/10/23 17:00
480-208767-5	MS-05	Solid	05/09/23 11:00	05/10/23 17:00
480-208767-6	MS-06	Solid	05/09/23 13:45	05/10/23 17:00
480-208767-7	MS-07	Water	05/09/23 13:30	05/10/23 17:00
480-208767-8	MS-08	Water	05/09/23 13:30	05/10/23 17:00

Chain of Custody Record



599455

Environment Testing
TestAmerica

Address:

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-9210

Client Contact		Project Manager:		Site Contact:		Date:		COC No:	
Company Name:	Tel/Email:	Analysis Turnaround Time	Lab Contact:	Carrier:	COCs				
BE'S		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Address: 960 BUSTI AVE		TAT if different from Below							
City/State/Zip: BUFFALO NY		<input checked="" type="checkbox"/> 2 weeks							
Phone: 716-545-2143		<input type="checkbox"/> 1 week							
Fax:		<input type="checkbox"/> 2 days							
Project Name: 743 MAIN ST.		<input type="checkbox"/> 1 day							
Site:									
P O #									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:	
MS01	5-9-23	10:30	C	S	4	✓	8260C-P315 VOC		
MS02	5-9-23	11:00	C	S	3	✓	8260C-P315 VOC		
MS03	5-9-23	11:20	C	S	3	✓	8260C-P315 VOC		
MS04	5-9-23	12:10	C	S	3	✓	8260C-P315 VOC		
MS05	5-9-23	11:00	C	S	4	✓	8260C-P315 VOC		
MS06	5-9-23	1:45	C	S	1	✓	8260C-P315 VOC		
MS07	5-9-23	1:30	C	W	2	✓	8260C-P315 VOC		
MS08	5-9-23	1:30	C	W	2	✓	8260C-P315 VOC		
									
480-208767 Chain of Custody									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seal No.: _____									
Relinquished by:  Date/Time: 5-9-23 5:00									
Relinquished by: _____ Date/Time: _____									
Relinquished by: _____ Date/Time: _____									



Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-208767-1

Login Number: 208767

List Number: 1

Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
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	BE3
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jason Brydges
Brydges Engineering in Environment & Energy DPC
960 Busti Ave
Suite B-150
Buffalo, New York 14213

Generated 7/11/2023 8:45:59 AM

JOB DESCRIPTION

743 Main Street

JOB NUMBER

480-210387-1

Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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7/11/2023 8:45:59 AM

Authorized for release by
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(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Qualifiers

GC/MS Semi VOA

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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Job ID: 480-210387-1

Laboratory: Eurofins Buffalo

Narrative

ob Narrative
480-210387-1

Comments

No additional comments.

Receipt

The samples were received on 6/29/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS Semi VOA

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: MS-9 (480-210387-3). Elevated reporting limits (RL) are provided.

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: MS-8 (480-210387-2), MS-9 (480-210387-3), MS-10 (480-210387-4), MS-11 (480-210387-5), MS-12 (480-210387-6), (480-210387-A-1-A MS) and (480-210387-A-1-B MSD). 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 low level continuing calibration verification (CCVL 480-675493/31) recovered above the upper control limit for Total Manganese. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCSSRM 480-675323/2-A) and (MB 480-675323/1-A) was not performed.

Method 7471B: The method blank for preparation batch 480-675425 and analytical batch 480-675516 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-7

Lab Sample ID: 480-210387-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	71	J	180	26	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	50	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Anthracene	220		180	44	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	640		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	690		180	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	780		180	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	370		180	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	290		180	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	680		180	40	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	180	32	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	52	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1100	F1	180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	85	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	360		180	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	34	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	860	F1	180	26	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1100		180	21	ug/Kg	1	✱	8270D	Total/NA
Arsenic	7.6		2.1	0.42	mg/Kg	1	✱	6010C	Total/NA
Barium	105		0.53	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.78		0.21	0.030	mg/Kg	1	✱	6010C	Total/NA
Cadmium	6.3		0.21	0.032	mg/Kg	1	✱	6010C	Total/NA
Chromium	18.8		0.53	0.21	mg/Kg	1	✱	6010C	Total/NA
Copper	30.2		1.1	0.22	mg/Kg	1	✱	6010C	Total/NA
Lead	82.5		1.1	0.25	mg/Kg	1	✱	6010C	Total/NA
Manganese	392	B	0.21	0.034	mg/Kg	1	✱	6010C	Total/NA
Nickel	21.7		5.3	0.24	mg/Kg	1	✱	6010C	Total/NA
Zinc	977		2.1	0.68	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.19	B	0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-8

Lab Sample ID: 480-210387-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	98	J	180	26	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	67	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Anthracene	280		180	43	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	710		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	740		180	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	830		180	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	340		180	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	390		180	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	730		180	39	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	180	31	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	70	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1400		180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	110	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	360		180	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	41	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	1100		180	26	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1100		180	21	ug/Kg	1	✱	8270D	Total/NA
Arsenic	11.2		2.2	0.44	mg/Kg	1	✱	6010C	Total/NA
Barium	96.2		0.55	0.12	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-8 (Continued)

Lab Sample ID: 480-210387-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.74		0.22	0.031	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.62		0.22	0.033	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.0		0.55	0.22	mg/Kg	1	✱	6010C	Total/NA
Copper	38.9		1.1	0.23	mg/Kg	1	✱	6010C	Total/NA
Lead	135		1.1	0.26	mg/Kg	1	✱	6010C	Total/NA
Manganese	403	B	0.22	0.035	mg/Kg	1	✱	6010C	Total/NA
Nickel	21.3		5.5	0.25	mg/Kg	1	✱	6010C	Total/NA
Zinc	110		2.2	0.70	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.22	B	0.020	0.0047	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-9

Lab Sample ID: 480-210387-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	2500		910	130	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	720	J	910	120	ug/Kg	5	✱	8270D	Total/NA
Anthracene	8100		910	220	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	11000		910	91	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	8600		910	130	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	9700		910	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	2800		910	96	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	4000		910	120	ug/Kg	5	✱	8270D	Total/NA
Chrysene	10000		910	200	ug/Kg	5	✱	8270D	Total/NA
Dibenz(a,h)anthracene	1300		910	160	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	2200		910	110	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	25000		910	96	ug/Kg	5	✱	8270D	Total/NA
Fluorene	3800		910	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	3300		910	110	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	770	J	910	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	25000		910	130	ug/Kg	5	✱	8270D	Total/NA
Pyrene	16000		910	110	ug/Kg	5	✱	8270D	Total/NA
Arsenic	8.0		2.2	0.44	mg/Kg	1	✱	6010C	Total/NA
Barium	91.5		0.55	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.67		0.22	0.031	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.40		0.22	0.033	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.2		0.55	0.22	mg/Kg	1	✱	6010C	Total/NA
Copper	31.1		1.1	0.23	mg/Kg	1	✱	6010C	Total/NA
Lead	81.3		1.1	0.26	mg/Kg	1	✱	6010C	Total/NA
Manganese	406	B	0.22	0.035	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.8		5.5	0.25	mg/Kg	1	✱	6010C	Total/NA
Zinc	97.5		2.2	0.70	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.31	B	0.022	0.0050	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-10

Lab Sample ID: 480-210387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	490		180	27	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	110	J	180	24	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1200		180	45	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2000		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1900		180	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	2200		180	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	880		180	19	ug/Kg	1	✱	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-10 (Continued)

Lab Sample ID: 480-210387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	840		180	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	2000		180	41	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	290		180	32	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	320		180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	4200		180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	550		180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	890		180	23	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	470		180	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	4200		180	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	3600		180	21	ug/Kg	1	✱	8270D	Total/NA
Arsenic	7.8		2.3	0.45	mg/Kg	1	✱	6010C	Total/NA
Barium	103		0.57	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.58		0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.44		0.23	0.034	mg/Kg	1	✱	6010C	Total/NA
Chromium	18.9		0.57	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	45.3		1.1	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	100		1.1	0.27	mg/Kg	1	✱	6010C	Total/NA
Manganese	389	B	0.23	0.036	mg/Kg	1	✱	6010C	Total/NA
Nickel	20.4		5.7	0.26	mg/Kg	1	✱	6010C	Total/NA
Zinc	108		2.3	0.73	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.14	B	0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-11

Lab Sample ID: 480-210387-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	330		180	26	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	61	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1600		180	43	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2000		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	2000		180	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	2200		180	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	770		180	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	900		180	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	2000		180	39	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	260		180	31	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	360		180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	4500		180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	540		180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	830		180	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	210		180	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	4300		180	26	ug/Kg	1	✱	8270D	Total/NA
Pyrene	3300		180	21	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.8		2.1	0.42	mg/Kg	1	✱	6010C	Total/NA
Barium	104		0.53	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.70		0.21	0.030	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.36		0.21	0.032	mg/Kg	1	✱	6010C	Total/NA
Chromium	16.9		0.53	0.21	mg/Kg	1	✱	6010C	Total/NA
Copper	28.8		1.1	0.22	mg/Kg	1	✱	6010C	Total/NA
Lead	83.0		1.1	0.25	mg/Kg	1	✱	6010C	Total/NA
Manganese	356	B	0.21	0.034	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.4		5.3	0.24	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-11 (Continued)

Lab Sample ID: 480-210387-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	95.4		2.1	0.68	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.10	B	0.021	0.0048	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: MS-12

Lab Sample ID: 480-210387-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	130	J	180	27	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	74	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Anthracene	420		180	45	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1000		180	18	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	950		180	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1100		180	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	350		180	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	610		180	23	ug/Kg	1	✱	8270D	Total/NA
Chrysene	980		180	41	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	120	J	180	32	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	130	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2100		180	19	ug/Kg	1	✱	8270D	Total/NA
Fluorene	160	J	180	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	370		180	22	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	60	J	180	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	1700		180	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	1500		180	21	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.0		2.1	0.42	mg/Kg	1	✱	6010C	Total/NA
Barium	90.6		0.52	0.11	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.51		0.21	0.029	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.40		0.21	0.031	mg/Kg	1	✱	6010C	Total/NA
Chromium	16.6		0.52	0.21	mg/Kg	1	✱	6010C	Total/NA
Copper	27.0		1.0	0.22	mg/Kg	1	✱	6010C	Total/NA
Lead	90.5		1.0	0.25	mg/Kg	1	✱	6010C	Total/NA
Manganese	359	B	0.21	0.033	mg/Kg	1	✱	6010C	Total/NA
Nickel	18.6		5.2	0.24	mg/Kg	1	✱	6010C	Total/NA
Zinc	100		2.1	0.67	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.10	B	0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-7

Lab Sample ID: 480-210387-1

Date Collected: 06/28/23 13:10

Matrix: Solid

Date Received: 06/29/23 10:30

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	58	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
2-Methylphenol	180	U	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
3-Methylphenol	350	U	350	27	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
4-Methylphenol	350	U	350	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Acenaphthene	71	J	180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Acenaphthylene	50	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Anthracene	220		180	44	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Benzo[a]anthracene	640		180	18	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Benzo[a]pyrene	690		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Benzo[b]fluoranthene	780		180	28	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Benzo[g,h,i]perylene	370		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Benzo[k]fluoranthene	290		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Chrysene	680		180	40	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Dibenz(a,h)anthracene	130	J	180	32	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Dibenzofuran	52	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Fluoranthene	1100	F1	180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Fluorene	85	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Hexachlorobenzene	180	U	180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Indeno[1,2,3-cd]pyrene	360		180	22	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Naphthalene	34	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Pentachlorophenol	350	U	350	180	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Phenanthrene	860	F1	180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Phenol	180	U	180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1
Pyrene	1100		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	07/03/23 15:42	07/05/23 16:24	1
2-Fluorobiphenyl (Surr)	90		60 - 120	07/03/23 15:42	07/05/23 16:24	1
2-Fluorophenol (Surr)	74		52 - 120	07/03/23 15:42	07/05/23 16:24	1
Nitrobenzene-d5 (Surr)	84		53 - 120	07/03/23 15:42	07/05/23 16:24	1
Phenol-d5 (Surr)	71		54 - 120	07/03/23 15:42	07/05/23 16:24	1
p-Terphenyl-d14 (Surr)	91		79 - 130	07/03/23 15:42	07/05/23 16:24	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		2.1	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Barium	105		0.53	0.12	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Beryllium	0.78		0.21	0.030	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Cadmium	6.3		0.21	0.032	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Chromium	18.8		0.53	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Copper	30.2		1.1	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Lead	82.5		1.1	0.25	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Manganese	392	B	0.21	0.034	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Nickel	21.7		5.3	0.24	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Selenium	4.2	U	4.2	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Silver	0.63	U	0.63	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1
Zinc	977		2.1	0.68	mg/Kg	☆	07/05/23 09:06	07/06/23 15:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-7

Lab Sample ID: 480-210387-1

Date Collected: 06/28/23 13:10

Matrix: Solid

Date Received: 06/29/23 10:30

Percent Solids: 92.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.021	0.0049	mg/Kg	☆	07/06/23 10:32	07/06/23 15:31	1

Client Sample ID: MS-8

Lab Sample ID: 480-210387-2

Date Collected: 06/28/23 13:15

Matrix: Solid

Date Received: 06/29/23 10:30

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	57	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
2-Methylphenol	180	U	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
3-Methylphenol	340	U	340	27	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
4-Methylphenol	340	U	340	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Acenaphthene	98	J	180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Acenaphthylene	67	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Anthracene	280		180	43	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Benzo[a]anthracene	710		180	18	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Benzo[a]pyrene	740		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Benzo[b]fluoranthene	830		180	28	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Benzo[g,h,i]perylene	340		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Benzo[k]fluoranthene	390		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Chrysene	730		180	39	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Dibenz(a,h)anthracene	130	J	180	31	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Dibenzofuran	70	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Fluoranthene	1400		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Fluorene	110	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Hexachlorobenzene	180	U	180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Indeno[1,2,3-cd]pyrene	360		180	22	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Naphthalene	41	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Pentachlorophenol	340	U	340	180	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Phenanthrene	1100		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Phenol	180	U	180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1
Pyrene	1100		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		54 - 120	07/03/23 15:42	07/05/23 16:48	1
2-Fluorobiphenyl (Surr)	84		60 - 120	07/03/23 15:42	07/05/23 16:48	1
2-Fluorophenol (Surr)	67		52 - 120	07/03/23 15:42	07/05/23 16:48	1
Nitrobenzene-d5 (Surr)	78		53 - 120	07/03/23 15:42	07/05/23 16:48	1
Phenol-d5 (Surr)	64		54 - 120	07/03/23 15:42	07/05/23 16:48	1
p-Terphenyl-d14 (Surr)	73	S1-	79 - 130	07/03/23 15:42	07/05/23 16:48	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.2		2.2	0.44	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Barium	96.2		0.55	0.12	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Beryllium	0.74		0.22	0.031	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Cadmium	0.62		0.22	0.033	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Chromium	19.0		0.55	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Copper	38.9		1.1	0.23	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Lead	135		1.1	0.26	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-8

Date Collected: 06/28/23 13:15

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-2

Matrix: Solid

Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	403	B	0.22	0.035	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Nickel	21.3		5.5	0.25	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Silver	0.65	U	0.65	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1
Zinc	110		2.2	0.70	mg/Kg	☆	07/05/23 09:06	07/06/23 15:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22	B	0.020	0.0047	mg/Kg	☆	07/06/23 10:32	07/06/23 15:32	1

Client Sample ID: MS-9

Date Collected: 06/28/23 13:30

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-3

Matrix: Solid

Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	530	U	530	290	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
2-Methylphenol	910	U	910	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
3-Methylphenol	1800	U	1800	140	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
4-Methylphenol	1800	U	1800	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Acenaphthene	2500		910	130	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Acenaphthylene	720	J	910	120	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Anthracene	8100		910	220	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Benzo[a]anthracene	11000		910	91	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Benzo[a]pyrene	8600		910	130	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Benzo[b]fluoranthene	9700		910	140	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Benzo[g,h,i]perylene	2800		910	96	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Benzo[k]fluoranthene	4000		910	120	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Chrysene	10000		910	200	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Dibenz(a,h)anthracene	1300		910	160	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Dibenzofuran	2200		910	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Fluoranthene	25000		910	96	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Fluorene	3800		910	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Hexachlorobenzene	910	U	910	120	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Indeno[1,2,3-cd]pyrene	3300		910	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Naphthalene	770	J	910	120	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Pentachlorophenol	1800	U	1800	910	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Phenanthrene	25000		910	130	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Phenol	910	U	910	140	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5
Pyrene	16000		910	110	ug/Kg	☆	07/03/23 15:42	07/05/23 17:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		54 - 120	07/03/23 15:42	07/05/23 17:11	5
2-Fluorobiphenyl (Surr)	78		60 - 120	07/03/23 15:42	07/05/23 17:11	5
2-Fluorophenol (Surr)	65		52 - 120	07/03/23 15:42	07/05/23 17:11	5
Nitrobenzene-d5 (Surr)	75		53 - 120	07/03/23 15:42	07/05/23 17:11	5
Phenol-d5 (Surr)	61		54 - 120	07/03/23 15:42	07/05/23 17:11	5
p-Terphenyl-d14 (Surr)	69	S1-	79 - 130	07/03/23 15:42	07/05/23 17:11	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-9

Date Collected: 06/28/23 13:30

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-3

Matrix: Solid

Percent Solids: 91.9

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		2.2	0.44	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Barium	91.5		0.55	0.12	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Beryllium	0.67		0.22	0.031	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Cadmium	0.40		0.22	0.033	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Chromium	20.2		0.55	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Copper	31.1		1.1	0.23	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Lead	81.3		1.1	0.26	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Manganese	406	B	0.22	0.035	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Nickel	22.8		5.5	0.25	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Selenium	4.4	U	4.4	0.44	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Silver	0.66	U	0.66	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1
Zinc	97.5		2.2	0.70	mg/Kg	☆	07/05/23 09:06	07/06/23 15:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31	B	0.022	0.0050	mg/Kg	☆	07/06/23 10:32	07/06/23 15:33	1

Client Sample ID: MS-10

Date Collected: 06/28/23 13:45

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-4

Matrix: Solid

Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	59	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
2-Methylphenol	180	U	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
3-Methylphenol	350	U	350	28	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
4-Methylphenol	350	U	350	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Acenaphthene	490		180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Acenaphthylene	110	J	180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Anthracene	1200		180	45	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Benzo[a]anthracene	2000		180	18	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Benzo[a]pyrene	1900		180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Benzo[b]fluoranthene	2200		180	29	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Benzo[g,h,i]perylene	880		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Benzo[k]fluoranthene	840		180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Chrysene	2000		180	41	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Dibenz(a,h)anthracene	290		180	32	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Dibenzofuran	320		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Fluoranthene	4200		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Fluorene	550		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Hexachlorobenzene	180	U	180	25	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Indeno[1,2,3-cd]pyrene	890		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Naphthalene	470		180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Pentachlorophenol	350	U	350	180	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Phenanthrene	4200		180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Phenol	180	U	180	28	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1
Pyrene	3600		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	07/03/23 15:42	07/05/23 17:35	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-10

Date Collected: 06/28/23 13:45

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-4

Matrix: Solid

Percent Solids: 91.1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		60 - 120	07/03/23 15:42	07/05/23 17:35	1
2-Fluorophenol (Surr)	66		52 - 120	07/03/23 15:42	07/05/23 17:35	1
Nitrobenzene-d5 (Surr)	76		53 - 120	07/03/23 15:42	07/05/23 17:35	1
Phenol-d5 (Surr)	64		54 - 120	07/03/23 15:42	07/05/23 17:35	1
p-Terphenyl-d14 (Surr)	73	S1-	79 - 130	07/03/23 15:42	07/05/23 17:35	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		2.3	0.45	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Barium	103		0.57	0.12	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Beryllium	0.58		0.23	0.032	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Cadmium	0.44		0.23	0.034	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Chromium	18.9		0.57	0.23	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Copper	45.3		1.1	0.24	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Lead	100		1.1	0.27	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Manganese	389	B	0.23	0.036	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Nickel	20.4		5.7	0.26	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Selenium	4.5	U	4.5	0.45	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Silver	0.68	U	0.68	0.23	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1
Zinc	108		2.3	0.73	mg/Kg	☆	07/05/23 09:06	07/06/23 15:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	B	0.021	0.0049	mg/Kg	☆	07/06/23 10:32	07/06/23 15:35	1

Client Sample ID: MS-11

Date Collected: 06/28/23 13:50

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-5

Matrix: Solid

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	57	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
2-Methylphenol	180	U	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
3-Methylphenol	340	U	340	27	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
4-Methylphenol	340	U	340	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Acenaphthene	330		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Acenaphthylene	61	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Anthracene	1600		180	43	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Benzo[a]anthracene	2000		180	18	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Benzo[a]pyrene	2000		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Benzo[b]fluoranthene	2200		180	28	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Benzo[g,h,i]perylene	770		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Benzo[k]fluoranthene	900		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Chrysene	2000		180	39	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Dibenz(a,h)anthracene	260		180	31	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Dibenzofuran	360		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Fluoranthene	4500		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Fluorene	540		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Hexachlorobenzene	180	U	180	24	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Indeno[1,2,3-cd]pyrene	830		180	22	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-11

Date Collected: 06/28/23 13:50

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-5

Matrix: Solid

Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	210		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Pentachlorophenol	340	U	340	180	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Phenanthrene	4300		180	26	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Phenol	180	U	180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Pyrene	3300		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	97		54 - 120				07/03/23 15:42	07/05/23 17:59	1
2-Fluorobiphenyl (Surr)	89		60 - 120				07/03/23 15:42	07/05/23 17:59	1
2-Fluorophenol (Surr)	66		52 - 120				07/03/23 15:42	07/05/23 17:59	1
Nitrobenzene-d5 (Surr)	79		53 - 120				07/03/23 15:42	07/05/23 17:59	1
Phenol-d5 (Surr)	65		54 - 120				07/03/23 15:42	07/05/23 17:59	1
p-Terphenyl-d14 (Surr)	78	S1-	79 - 130				07/03/23 15:42	07/05/23 17:59	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		2.1	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Barium	104		0.53	0.12	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Beryllium	0.70		0.21	0.030	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Cadmium	0.36		0.21	0.032	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Chromium	16.9		0.53	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Copper	28.8		1.1	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Lead	83.0		1.1	0.25	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Manganese	356	B	0.21	0.034	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Nickel	22.4		5.3	0.24	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Selenium	4.2	U	4.2	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Silver	0.64	U	0.64	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1
Zinc	95.4		2.1	0.68	mg/Kg	☆	07/05/23 09:06	07/06/23 15:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	B	0.021	0.0048	mg/Kg	☆	07/06/23 10:32	07/06/23 15:36	1

Client Sample ID: MS-12

Date Collected: 06/28/23 14:00

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-6

Matrix: Solid

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	110	U	110	59	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
2-Methylphenol	180	U	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
3-Methylphenol	350	U	350	28	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
4-Methylphenol	350	U	350	21	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Acenaphthene	130	J	180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Acenaphthylene	74	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Anthracene	420		180	45	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Benzo[a]anthracene	1000		180	18	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Benzo[a]pyrene	950		180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Benzo[b]fluoranthene	1100		180	29	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Benzo[g,h,i]perylene	350		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Benzo[k]fluoranthene	610		180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-12

Lab Sample ID: 480-210387-6

Date Collected: 06/28/23 14:00

Matrix: Solid

Date Received: 06/29/23 10:30

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	980		180	41	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Dibenz(a,h)anthracene	120	J	180	32	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Dibenzofuran	130	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Fluoranthene	2100		180	19	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Fluorene	160	J	180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Hexachlorobenzene	180	U	180	25	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Indeno[1,2,3-cd]pyrene	370		180	22	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Naphthalene	60	J	180	23	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Pentachlorophenol	350	U	350	180	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Phenanthrene	1700		180	27	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Phenol	180	U	180	28	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1
Pyrene	1500		180	21	ug/Kg	☆	07/03/23 15:42	07/05/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		54 - 120	07/03/23 15:42	07/05/23 18:23	1
2-Fluorobiphenyl (Surr)	80		60 - 120	07/03/23 15:42	07/05/23 18:23	1
2-Fluorophenol (Surr)	66		52 - 120	07/03/23 15:42	07/05/23 18:23	1
Nitrobenzene-d5 (Surr)	76		53 - 120	07/03/23 15:42	07/05/23 18:23	1
Phenol-d5 (Surr)	64		54 - 120	07/03/23 15:42	07/05/23 18:23	1
p-Terphenyl-d14 (Surr)	68	S1-	79 - 130	07/03/23 15:42	07/05/23 18:23	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		2.1	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Barium	90.6		0.52	0.11	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Beryllium	0.51		0.21	0.029	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Cadmium	0.40		0.21	0.031	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Chromium	16.6		0.52	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Copper	27.0		1.0	0.22	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Lead	90.5		1.0	0.25	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Manganese	359	B	0.21	0.033	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Nickel	18.6		5.2	0.24	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Selenium	4.2	U	4.2	0.42	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Silver	0.63	U	0.63	0.21	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1
Zinc	100		2.1	0.67	mg/Kg	☆	07/05/23 09:06	07/06/23 15:42	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	B	0.022	0.0051	mg/Kg	☆	07/06/23 10:32	07/06/23 15:40	1

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-210387-1	MS-7	96	90	74	84	71	91
480-210387-1 MS	MS-7	92	80	66	73	63	74 S1-
480-210387-1 MSD	MS-7	87	74	66	74	64	70 S1-
480-210387-2	MS-8	83	84	67	78	64	73 S1-
480-210387-3	MS-9	77	78	65	75	61	69 S1-
480-210387-4	MS-10	85	81	66	76	64	73 S1-
480-210387-5	MS-11	97	89	66	79	65	78 S1-
480-210387-6	MS-12	86	80	66	76	64	68 S1-
LCS 480-675280/2-A	Lab Control Sample	99	80	69	76	69	98
MB 480-675280/1-A	Method Blank	87	84	74	79	74	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

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

Lab Sample ID: MB 480-675280/1-A

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 675280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
2-Methylphenol	170	U	170	20	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
3-Methylphenol	330	U	330	26	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
4-Methylphenol	330	U	330	20	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Acenaphthene	170	U	170	25	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Acenaphthylene	170	U	170	22	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Anthracene	170	U	170	42	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Chrysene	170	U	170	38	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Dibenzofuran	170	U	170	20	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Fluoranthene	170	U	170	18	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Fluorene	170	U	170	20	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Hexachlorobenzene	170	U	170	23	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Naphthalene	170	U	170	22	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Pentachlorophenol	330	U	330	170	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Phenanthrene	170	U	170	25	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Phenol	170	U	170	26	ug/Kg		07/03/23 15:42	07/05/23 14:48	1
Pyrene	170	U	170	20	ug/Kg		07/03/23 15:42	07/05/23 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	07/03/23 15:42	07/05/23 14:48	1
2-Fluorobiphenyl (Surr)	84		60 - 120	07/03/23 15:42	07/05/23 14:48	1
2-Fluorophenol (Surr)	74		52 - 120	07/03/23 15:42	07/05/23 14:48	1
Nitrobenzene-d5 (Surr)	79		53 - 120	07/03/23 15:42	07/05/23 14:48	1
Phenol-d5 (Surr)	74		54 - 120	07/03/23 15:42	07/05/23 14:48	1
p-Terphenyl-d14 (Surr)	100		79 - 130	07/03/23 15:42	07/05/23 14:48	1

Lab Sample ID: LCS 480-675280/2-A

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 675280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	806		ug/Kg		49	23 - 120
2-Methylphenol	1650	1210		ug/Kg		73	54 - 120
3-Methylphenol	1650	1250		ug/Kg		76	55 - 120
4-Methylphenol	1650	1250		ug/Kg		76	55 - 120
Acenaphthene	1650	1420		ug/Kg		86	62 - 120
Acenaphthylene	1650	1500		ug/Kg		91	58 - 121
Anthracene	1650	1450		ug/Kg		87	62 - 120
Benzo[a]anthracene	1650	1480		ug/Kg		90	65 - 120
Benzo[a]pyrene	1650	1500		ug/Kg		91	64 - 120
Benzo[b]fluoranthene	1650	1640		ug/Kg		99	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

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

Lab Sample ID: LCS 480-675280/2-A

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 675280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	1650	1400		ug/Kg		85	45 - 145
Benzo[k]fluoranthene	1650	1550		ug/Kg		94	65 - 120
Chrysene	1650	1420		ug/Kg		86	64 - 120
Dibenz(a,h)anthracene	1650	1460		ug/Kg		88	54 - 132
Dibenzofuran	1650	1410		ug/Kg		85	63 - 120
Fluoranthene	1650	1440		ug/Kg		87	62 - 120
Fluorene	1650	1400		ug/Kg		85	63 - 120
Hexachlorobenzene	1650	1660		ug/Kg		100	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1400		ug/Kg		85	56 - 134
Naphthalene	1650	1310		ug/Kg		79	55 - 120
Pentachlorophenol	3310	3160		ug/Kg		95	51 - 120
Phenanthrene	1650	1460		ug/Kg		89	60 - 120
Phenol	1650	1250		ug/Kg		76	53 - 120
Pyrene	1650	1710		ug/Kg		103	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	99		54 - 120
2-Fluorobiphenyl (Surr)	80		60 - 120
2-Fluorophenol (Surr)	69		52 - 120
Nitrobenzene-d5 (Surr)	76		53 - 120
Phenol-d5 (Surr)	69		54 - 120
p-Terphenyl-d14 (Surr)	98		79 - 130

Lab Sample ID: 480-210387-1 MS

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: MS-7

Prep Type: Total/NA

Prep Batch: 675280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	110	U	1750	862		ug/Kg	✱	49	13 - 120
2-Methylphenol	180	U	1750	1170		ug/Kg	✱	67	48 - 120
3-Methylphenol	350	U	1750	1190		ug/Kg	✱	68	50 - 120
4-Methylphenol	350	U	1750	1190		ug/Kg	✱	68	50 - 120
Acenaphthene	71	J	1750	1640		ug/Kg	✱	89	60 - 120
Acenaphthylene	50	J	1750	1530		ug/Kg	✱	85	58 - 121
Anthracene	220		1750	1890		ug/Kg	✱	95	62 - 120
Benzo[a]anthracene	640		1750	2320		ug/Kg	✱	96	65 - 120
Benzo[a]pyrene	690		1750	2240		ug/Kg	✱	89	64 - 120
Benzo[b]fluoranthene	780		1750	2370		ug/Kg	✱	91	10 - 150
Benzo[g,h,i]perylene	370		1750	1840		ug/Kg	✱	84	45 - 145
Benzo[k]fluoranthene	290		1750	1650		ug/Kg	✱	78	23 - 150
Chrysene	680		1750	2350		ug/Kg	✱	95	64 - 120
Dibenz(a,h)anthracene	130	J	1750	1610		ug/Kg	✱	84	54 - 132
Dibenzofuran	52	J	1750	1560		ug/Kg	✱	86	62 - 120
Fluoranthene	1100	F1	1750	3270	F1	ug/Kg	✱	124	62 - 120
Fluorene	85	J	1750	1570		ug/Kg	✱	85	63 - 120
Hexachlorobenzene	180	U	1750	1540		ug/Kg	✱	88	60 - 120
Indeno[1,2,3-cd]pyrene	360		1750	1980		ug/Kg	✱	93	56 - 134
Naphthalene	34	J	1750	1410		ug/Kg	✱	79	46 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

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

Lab Sample ID: 480-210387-1 MS

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: MS-7

Prep Type: Total/NA

Prep Batch: 675280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	350	U	3500	2850		ug/Kg	✱	81	25 - 136
Phenanthrene	860	F1	1750	3420	F1	ug/Kg	✱	146	60 - 122
Phenol	180	U	1750	1210		ug/Kg	✱	69	50 - 120
Pyrene	1100		1750	3130		ug/Kg	✱	114	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	92		54 - 120
2-Fluorobiphenyl (Surr)	80		60 - 120
2-Fluorophenol (Surr)	66		52 - 120
Nitrobenzene-d5 (Surr)	73		53 - 120
Phenol-d5 (Surr)	63		54 - 120
p-Terphenyl-d14 (Surr)	74	S1-	79 - 130

Lab Sample ID: 480-210387-1 MSD

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: MS-7

Prep Type: Total/NA

Prep Batch: 675280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	110	U	1770	860		ug/Kg	✱	49	13 - 120	0	50
2-Methylphenol	180	U	1770	1240		ug/Kg	✱	70	48 - 120	5	27
3-Methylphenol	350	U	1770	1280		ug/Kg	✱	73	50 - 120	7	24
4-Methylphenol	350	U	1770	1280		ug/Kg	✱	73	50 - 120	8	24
Acenaphthene	71	J	1770	1700		ug/Kg	✱	92	60 - 120	4	35
Acenaphthylene	50	J	1770	1560		ug/Kg	✱	85	58 - 121	2	18
Anthracene	220		1770	1860		ug/Kg	✱	93	62 - 120	1	15
Benzo[a]anthracene	640		1770	2410		ug/Kg	✱	100	65 - 120	4	15
Benzo[a]pyrene	690		1770	2400		ug/Kg	✱	97	64 - 120	7	15
Benzo[b]fluoranthene	780		1770	2440		ug/Kg	✱	94	10 - 150	3	15
Benzo[g,h,i]perylene	370		1770	1820		ug/Kg	✱	82	45 - 145	1	15
Benzo[k]fluoranthene	290		1770	1820		ug/Kg	✱	86	23 - 150	9	22
Chrysene	680		1770	2360		ug/Kg	✱	95	64 - 120	0	15
Dibenz(a,h)anthracene	130	J	1770	1590		ug/Kg	✱	83	54 - 132	1	15
Dibenzofuran	52	J	1770	1630		ug/Kg	✱	89	62 - 120	4	15
Fluoranthene	1100	F1	1770	3670	F1	ug/Kg	✱	146	62 - 120	12	15
Fluorene	85	J	1770	1680		ug/Kg	✱	90	63 - 120	7	15
Hexachlorobenzene	180	U	1770	1540		ug/Kg	✱	87	60 - 120	0	15
Indeno[1,2,3-cd]pyrene	360		1770	1980		ug/Kg	✱	92	56 - 134	0	15
Naphthalene	34	J	1770	1520		ug/Kg	✱	84	46 - 120	7	29
Pentachlorophenol	350	U	3530	3010		ug/Kg	✱	85	25 - 136	5	35
Phenanthrene	860	F1	1770	3480	F1	ug/Kg	✱	149	60 - 122	2	15
Phenol	180	U	1770	1280		ug/Kg	✱	73	50 - 120	6	35
Pyrene	1100		1770	3060		ug/Kg	✱	109	61 - 133	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		54 - 120
2-Fluorobiphenyl (Surr)	74		60 - 120
2-Fluorophenol (Surr)	66		52 - 120
Nitrobenzene-d5 (Surr)	74		53 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

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

Lab Sample ID: 480-210387-1 MSD

Matrix: Solid

Analysis Batch: 675337

Client Sample ID: MS-7

Prep Type: Total/NA

Prep Batch: 675280

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Phenol-d5 (Surr)	64		54 - 120
p-Terphenyl-d14 (Surr)	70	S1-	79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-675323/1-A

Matrix: Solid

Analysis Batch: 675493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 675323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.41	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Barium	0.51	U	0.51	0.11	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Beryllium	0.20	U	0.20	0.029	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Cadmium	0.20	U	0.20	0.031	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Chromium	0.51	U	0.51	0.20	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Copper	1.0	U	1.0	0.22	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Lead	1.0	U	1.0	0.25	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Manganese	0.0799	J ^+	0.20	0.033	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Nickel	5.1	U	5.1	0.24	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Selenium	4.1	U	4.1	0.41	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Silver	0.61	U	0.61	0.20	mg/Kg		07/05/23 09:06	07/06/23 12:57	1
Zinc	2.0	U	2.0	0.66	mg/Kg		07/05/23 09:06	07/06/23 12:57	1

Lab Sample ID: LCSSRM 480-675323/2-A

Matrix: Solid

Analysis Batch: 675493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 675323

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	183	160.9		mg/Kg		87.9	69.9 - 130. 1
Barium	297	267.9		mg/Kg		90.2	75.1 - 125. 3
Beryllium	78.8	68.97		mg/Kg		87.5	75.0 - 124. 9
Cadmium	221	180.4		mg/Kg		81.6	75.1 - 124. 9
Chromium	200	172.6		mg/Kg		86.3	70.0 - 130. 0
Copper	136	116.2		mg/Kg		85.5	75.0 - 125. 0
Lead	257	265.9		mg/Kg		103.5	73.9 - 126. 1
Manganese	381	340.1	^+	mg/Kg		89.3	75.9 - 124. 1
Nickel	169	165.2		mg/Kg		97.7	69.8 - 129. 6
Selenium	217	185.7		mg/Kg		85.6	69.1 - 131. 3
Silver	67.8	60.23		mg/Kg		88.8	70.6 - 129. 2
Zinc	224	187.9		mg/Kg		83.9	70.1 - 130. 4

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-675425/1-A

Matrix: Solid

Analysis Batch: 675516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 675425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0158	J	0.020	0.0046	mg/Kg		07/06/23 10:32	07/06/23 15:09	1

Lab Sample ID: LCSSRM 480-675425/2-A ^10

Matrix: Solid

Analysis Batch: 675516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 675425

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	18.2	19.27		mg/Kg		105.9	59.9 - 140. 1

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

GC/MS Semi VOA

Prep Batch: 675280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	3550C	
480-210387-2	MS-8	Total/NA	Solid	3550C	
480-210387-3	MS-9	Total/NA	Solid	3550C	
480-210387-4	MS-10	Total/NA	Solid	3550C	
480-210387-5	MS-11	Total/NA	Solid	3550C	
480-210387-6	MS-12	Total/NA	Solid	3550C	
MB 480-675280/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-675280/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-210387-1 MS	MS-7	Total/NA	Solid	3550C	
480-210387-1 MSD	MS-7	Total/NA	Solid	3550C	

Analysis Batch: 675337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	8270D	675280
480-210387-2	MS-8	Total/NA	Solid	8270D	675280
480-210387-3	MS-9	Total/NA	Solid	8270D	675280
480-210387-4	MS-10	Total/NA	Solid	8270D	675280
480-210387-5	MS-11	Total/NA	Solid	8270D	675280
480-210387-6	MS-12	Total/NA	Solid	8270D	675280
MB 480-675280/1-A	Method Blank	Total/NA	Solid	8270D	675280
LCS 480-675280/2-A	Lab Control Sample	Total/NA	Solid	8270D	675280
480-210387-1 MS	MS-7	Total/NA	Solid	8270D	675280
480-210387-1 MSD	MS-7	Total/NA	Solid	8270D	675280

Metals

Prep Batch: 675323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	3050B	
480-210387-2	MS-8	Total/NA	Solid	3050B	
480-210387-3	MS-9	Total/NA	Solid	3050B	
480-210387-4	MS-10	Total/NA	Solid	3050B	
480-210387-5	MS-11	Total/NA	Solid	3050B	
480-210387-6	MS-12	Total/NA	Solid	3050B	
MB 480-675323/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-675323/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 675425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	7471B	
480-210387-2	MS-8	Total/NA	Solid	7471B	
480-210387-3	MS-9	Total/NA	Solid	7471B	
480-210387-4	MS-10	Total/NA	Solid	7471B	
480-210387-5	MS-11	Total/NA	Solid	7471B	
480-210387-6	MS-12	Total/NA	Solid	7471B	
MB 480-675425/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-675425/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 675493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-675323/1-A	Method Blank	Total/NA	Solid	6010C	675323

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Metals (Continued)

Analysis Batch: 675493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 480-675323/2-A	Lab Control Sample	Total/NA	Solid	6010C	675323

Analysis Batch: 675516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	7471B	675425
480-210387-2	MS-8	Total/NA	Solid	7471B	675425
480-210387-3	MS-9	Total/NA	Solid	7471B	675425
480-210387-4	MS-10	Total/NA	Solid	7471B	675425
480-210387-5	MS-11	Total/NA	Solid	7471B	675425
480-210387-6	MS-12	Total/NA	Solid	7471B	675425
MB 480-675425/1-A	Method Blank	Total/NA	Solid	7471B	675425
LCSSRM 480-675425/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	675425

Analysis Batch: 675615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	6010C	675323
480-210387-2	MS-8	Total/NA	Solid	6010C	675323
480-210387-3	MS-9	Total/NA	Solid	6010C	675323
480-210387-4	MS-10	Total/NA	Solid	6010C	675323
480-210387-5	MS-11	Total/NA	Solid	6010C	675323
480-210387-6	MS-12	Total/NA	Solid	6010C	675323

General Chemistry

Analysis Batch: 675122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-210387-1	MS-7	Total/NA	Solid	Moisture	
480-210387-2	MS-8	Total/NA	Solid	Moisture	
480-210387-3	MS-9	Total/NA	Solid	Moisture	
480-210387-4	MS-10	Total/NA	Solid	Moisture	
480-210387-5	MS-11	Total/NA	Solid	Moisture	
480-210387-6	MS-12	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-7

Date Collected: 06/28/23 13:10

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Client Sample ID: MS-7

Date Collected: 06/28/23 13:10

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-1

Matrix: Solid

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		1	675337	JMM	EET BUF	07/05/23 16:24
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:22
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:31

Client Sample ID: MS-8

Date Collected: 06/28/23 13:15

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Client Sample ID: MS-8

Date Collected: 06/28/23 13:15

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-2

Matrix: Solid

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		1	675337	JMM	EET BUF	07/05/23 16:48
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:26
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:32

Client Sample ID: MS-9

Date Collected: 06/28/23 13:30

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-9

Date Collected: 06/28/23 13:30

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-3

Matrix: Solid

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		5	675337	JMM	EET BUF	07/05/23 17:11
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:30
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:33

Client Sample ID: MS-10

Date Collected: 06/28/23 13:45

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Client Sample ID: MS-10

Date Collected: 06/28/23 13:45

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-4

Matrix: Solid

Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		1	675337	JMM	EET BUF	07/05/23 17:35
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:34
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:35

Client Sample ID: MS-11

Date Collected: 06/28/23 13:50

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Client Sample ID: MS-11

Date Collected: 06/28/23 13:50

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-5

Matrix: Solid

Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		1	675337	JMM	EET BUF	07/05/23 17:59
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:38
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:36

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Client Sample ID: MS-12

Date Collected: 06/28/23 14:00

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	675122	IMZ	EET BUF	06/30/23 16:43

Client Sample ID: MS-12

Date Collected: 06/28/23 14:00

Date Received: 06/29/23 10:30

Lab Sample ID: 480-210387-6

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			675280	SJM	EET BUF	07/03/23 15:42
Total/NA	Analysis	8270D		1	675337	JMM	EET BUF	07/05/23 18:23
Total/NA	Prep	3050B			675323	MP	EET BUF	07/05/23 09:06
Total/NA	Analysis	6010C		1	675615	LMH	EET BUF	07/06/23 15:42
Total/NA	Prep	7471B			675425	VAK	EET BUF	07/06/23 10:32
Total/NA	Analysis	7471B		1	675516	BMB	EET BUF	07/06/23 15:40

Laboratory References:

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

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24
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: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 743 Main Street

Job ID: 480-210387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-210387-1	MS-7	Solid	06/28/23 13:10	06/29/23 10:30
480-210387-2	MS-8	Solid	06/28/23 13:15	06/29/23 10:30
480-210387-3	MS-9	Solid	06/28/23 13:30	06/29/23 10:30
480-210387-4	MS-10	Solid	06/28/23 13:45	06/29/23 10:30
480-210387-5	MS-11	Solid	06/28/23 13:50	06/29/23 10:30
480-210387-6	MS-12	Solid	06/28/23 14:00	06/29/23 10:30

Chain of Custody Record

Client Information		Lab PM: Beninati, John		Carrier Tracking No(s)		COC No	
Client Contact: Alex Palumbo		E-Mail: John.Beninati@et.eurofinsus.com		State of Origin		Page 1 of 1	
Company: Jason Brydges		PWSID:		Analysis Requested		Job #	
Brydges Engineering in Environment & Energy DPC		Due Date Requested:		TAT Requested (days):		Preservation Codes:	
Address: 960 Busti Ave Suite B-150		City: Buffalo		State: NY		Zip: 14213	
Phone: 716-362-6533(Tel)		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Purchase Order not required		Project #:	
Email: apalumbo@be3corp.com		Project Name: 743 Main Street		Site		SSOW#:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
MS-7		6-28-23		110		G	
MS-8		115		130		145	
MS-9		150		200			
MS-10							
MS-11							
MS-12							
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Relinquished by: Pete Gorton		Relinquished by: Paul Staub	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.: 4-2 #1		Cooler Temperature(s) and Other Remarks: 6-29-23 1030		Company: JAB	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-210387-1

Login Number: 210387

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX D

Previous Investigations

Phase I Environmental Site Assessment

Location:

Mixed-Use Property
743-749 Main Street
Buffalo, New York 14202

Prepared for:

Alan Dewart
Avalon Development, LLC
701 Seneca Street, Suite 200
Buffalo, New York 14210

LaBella Project No. 2223692
Award/Client Project No. N/A

September 13, 2022



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EXECUTIVE SUMMARY

LaBella Associates, D.P.C. (LaBella) has been contracted by Avalon Development, LLC to perform a Phase I Environmental Site Assessment (ESA) report for Mixed-Use Property property, 743-749 Main Street, Buffalo, Erie County, New York (hereinafter referred to as the “Subject Property”).

This assessment was prepared according to the ASTM E1527-13/21 as a portion of the User's requirements in the All Appropriate Inquiries process and to satisfy the due diligence requirements set for Avalon Development, LLC.

The Subject Property is further described as follows:

Subject Property Name	Mixed-Use Property
Subject Property Address	743-749 Main Street, Buffalo, Erie County, New York
Subject Property Acreage (approximate)	0.31
Parcel ID(s)	111.30-3-5
Current Owner	Nathan Associates LLC
Current Subject Property Use/ Development	Costume Shop, vacant commercial units and apartments
Public Thoroughfares and Access/Egress	Main Street to the west, Washington Street to the east
Exterior Areas	Paved sidewalk
Surrounding Area	Urban
Subject Property Utilities	
Electric Source	National Grid
Natural Gas Source (if provided)	National Fuel
Potable Water Source	Public
Sanitary Wastewater Disposal	Public
Non-Sanitary Wastewater Disposal	N/A



Based on LaBella's review of historical records, the history of the Subject Property is summarized as follows:

Time Period	Apparent Use/Development
In or before 1899 through at least 1899	Undeveloped
1900 through present	Developed with the existing structure, used as various storefronts, jewelry manufacturing, radio/electronics company, offices, and residential use, The eastern portion was used as a garage with a gasoline UST in at least 1925 and as an automotive repair facility from at least 1946 to at least 1955

Based on the results of this assessment, the following RECs have been identified in connection with the Subject Property:

- The eastern portion of the subject structure was identified as a garage with a gasoline UST in the adjacent roadway in at least 1925 and as an auto repair facility from at least 1946 to 1955. Although the UST was in the adjacent roadway, the associated piping and dispenser would likely have been located within the boundaries of the Subject Property.
- The NY Spill (#0175129) listed for the north adjacent property involved the discovery of contaminated soil in 2001 while removing a UST and associated piping; this spill is classified as closed by NYSDEC. Although this spill is classified as closed, there was residual contamination remaining under buildings and no groundwater sampling or vapor study was conducted. Based on this information and the upgradient location relative to the Subject Property, this spill is considered a REC.

Based on the results of this assessment, no CRECs have been identified in connection with the Subject Property.

Based on the results of this assessment, no HRECs have been identified in connection with the Subject Property.



Based on the results of this assessment, no de minimis conditions have been identified in connection with the Subject Property.

Based on the results of this assessment, no significant data gaps have been identified in connection with the Subject Property.

- The Subject Property currently includes a retail storefront and has historically included residential and commercial operations. While hazardous materials and/or petroleum products may have been used/stored in association with these operations, they are not considered to pose an environmental concern at this time.
- The Site Building is currently heated with natural gas. Given the age of the structure, there is the potential for previous heating systems to have been in use on-site. However, there were no records or evidence identified to suggest an on-site concern relative to historical heating systems at this time

Based on the findings of this assessment, further investigation appears warranted at this time.



1.0 INTRODUCTION

LaBella has been contracted by Avalon Development, LLC to perform a Phase I Environmental Site Assessment report for the Mixed-Use Property property, 743-749 Main Street, Buffalo, Erie County, New York.

The findings of this report are based upon an assessment of the condition of the Subject Property within the Scope of Work and objective described below as of the date of the site observations and documentation review. This assessment was prepared according to the ASTM Standard Practices E1527-13/21 as a portion of the User's requirements in the All Appropriate Inquiries process and to satisfy the due diligence requirements set for Avalon Development, LLC. The information contained in this report is considered privileged and confidential and is intended solely for the use of the parties listed on the cover of this report, as it applies to the Subject Property.

1.1 Purpose

This investigation was requested to identify, to the extent feasible, RECs in connection with the Subject Property, including the identification of conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, or in the vicinity of the Subject Property. This Phase I ESA report was conducted in conformance with the Scope and Limitations of ASTM Standard Practice E1527-13/21.

The performance of ASTM Standard Practices E1527-13/21 is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and the potential liability for contamination to be present in connection with the Subject Property recognizing reasonable limits of time and cost. It is also intended to satisfy one of the requirements to satisfy "all appropriate inquiry" as defined by 42 U.S.C §9601(35)(B), for the purposes of qualifying for innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA Liability. The User should understand that this practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for landowner liability protections; including (1) the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, (2) the duty to take reasonable steps to prevent releases, or (3) the duty to comply with legally required release reporting obligations.

The objective of this Phase I ESA was to determine the following, using our professional judgment, by means of the Scope of Work hereafter described:

1. A general description of the Subject Property.
2. The current and historical usage of the Subject Property and adjoining properties.
3. Whether RECs exist or have the potential to exist at in, on, or at the Subject Property.
4. Whether Subject Property conditions suggest further evaluation based on the presence or probable presence of RECs.



5. Provide information which may assist the Client in evaluating the fair market value of the Subject Property.

A REC is defined by ASTM as (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.

A Controlled REC is defined by ASTM as a recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, activity and use limitations or other property use limitations).

A Historical REC is defined by ASTM as a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

A de minimis condition is defined by ASTM as a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

The term "data gap" means a lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). A significant data gap is one that affects the ability of the environmental professional to identify a REC.

The term "data failure" means the failure to achieve the historical research objective as specified in ASTM E-1527-13/21 even after reviewing the standard historical resources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

Migration refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.



An Environmental Professional is a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors defined in the ASTM Standard Practice E1527-13/21 and §312.20 of 40 CFR §312. Specifically, an Environmental Professional is defined as a person having one of the following qualifications; (1) A state- or tribal-issued certification or license and three years of relevant, full-time work experience; (2) A bachelor's degree or higher in science or engineering and five years of relevant, full-time work experience; or, (3) 10 years of relevant, full-time work experience.

1.2 Scope of Work

This Phase I Environmental Site Assessment has been prepared in accordance with ASTM E1527-13/21, which has been devised to address the site assessment portion for 40 CFR 312 - Innocent Landowners, Standards for Conducting All Appropriate Inquiries. The Scope of Work performed in this assessment is intended to identify RECs, CRECs, HRECs, de minimis conditions, and Significant Data Gaps through the following tasks:

1. Review of information provided by the User related to environmental cleanup liens; specialized knowledge or experience regarding the Subject Property; the relationship of the purchase price to the fair market value of the property, if the property were not contaminated; and, commonly known or reasonably available information about the Subject Property.
2. Review of local, state, and federal environmental records.
3. Review of historical sources of information to identify the use of the Subject Property dating back to 1940 or first Subject Property development, whichever is earlier.
4. Review of physical and geological settings.
5. Interviews with current and past owners, operators, and occupants to evaluate the potential for environmental contamination to be present at the Subject Property.
6. Inspection of the Subject Property and adjacent properties (from public roadways and the Subject Property boundaries), to the extent possible, to visually identify areas of concern.
7. The preparation of this report documenting all appropriate inquiries.

The work for this report has been performed in accordance with generally accepted environmental engineering practices for this region. The conclusions and recommendations of this report are based upon the opinion and judgment of an Environmental Professional and are dependent upon LaBella's knowledge, the information supplied during the interviews, and data and information solicited from governmental agencies. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

In addition, LaBella cannot provide guarantees, certifications, or warranties that the Subject Property is or is not free of contamination without a subsurface investigation involving drilling, vapor analysis, laboratory soil analysis, groundwater monitoring well installation, and laboratory groundwater analysis. Even with such a program, the data and samples from any given soil boring or monitoring



well will indicate conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Subject Property as a whole.

1.2.1 Significant Assumptions

Significant assumptions made in the performance of this Phase I ESA are as follows:

- Regional groundwater flow follows major topographic gradients.
- Representations made during interviews are accurate.

1.3 Data Gaps

LaBella encountered the following data gaps through the completion of this Phase I Environmental Site Assessment:

Nature of Data Gap	Details/Description	Data Sources Consulted
Limitations to Site Inspection ¹	Observations were limited due to stored materials. LaBella inspected representative portions of the structure.	N/A
Historical Use	Historical uses were not obtained for each five year period.	Aerial photographs, Sanborn maps, city directories, municipal records
Regulatory Records Review	LaBella has yet to receive complete responses from all regulatory information requests.	Outstanding responses from NYSDOH and NYSDEC
Interviews	LaBella has not been able to identify and/or contact any historical owners, operators, or occupants.	Current owners, municipal, and/or User-provided records to identify historical ownership information.
Any data gaps determined by the Environmental Professional to be significant are further discussed within the Findings and Opinions section of this report. ¹ See Limitations and Exceptions of Assessment below for additional limitations of the site visit.		



1.4 Limitations and Exceptions of Assessment

ASTM E1527-13/21 expressly recognized the fact that no ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. LaBella's work is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property, and its Scope of Work reflects recognition of the reasonable limits of time and cost.

The work for this report has been performed in accordance with the master service agreement signed with Avalon Development, LLC. The conclusion and recommendations of this report are based upon LaBella's opinion and judgment, and are necessarily dependent on information supplied by the individuals, entities, and agencies contacted through the course of this assessment. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

The actual presence of asbestos, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, endangered species, indoor air quality, mold, substances not defined as hazardous substances, cultural and historical resources, archeological resources, ecological resources, industrial hygiene, health and safety, biological agents, and/or high voltage power lines, are not included in the Scope of Work of this assessment unless agreed to by Avalon Development, LLC and LaBella; in such a case, these additional services/ASTM Non-Scope Considerations are discussed in Section 8.0 below. Should Avalon Development, LLC desire any of these additional services, such can be completed by LaBella under separate cover; however, they are not included in the Scope of Work of the Phase I ESA.

The site reconnaissance was limited to visual observations of accessible areas only. No attempt was made to observe conditions in spaces not generally accessible, including but not limited to:

1. Entering crawlspaces and attics
2. Walking on roofs
3. Viewing the interior of pipe chases or plenum
4. Viewing spaces concealed by walls, floors, ceilings, interior finishes, etc.
5. Viewing areas inaccessible due to topographic features or locked doors, obscured by snow cover, vegetative growth, vehicles, etc.

The site reconnaissance was also limited to visual observations within the perimeter of the Subject Property and other accessible areas only. At the time of the site reconnaissance, a representative portion of the Subject Property and common areas were visually inspected.

1.5 Reliance

Avalon Development, LLC may rely upon the findings of this report and should be aware of the agreed upon Scope of Work and the limitations associated with this Scope of Work.



2.0 SUBJECT PROPERTY AND VICINITY DESCRIPTION

The Subject Property is summarized in the tables below. Property boundaries for the purpose of this assessment were determined based on provided survey mapping and/or tax maps obtained through municipal sources. Subject Property Location and Tax Parcel maps for the Subject Property are located in the [Site Maps](#) Appendix.

Subject Property Name	Mixed-Use Property
Subject Property Address	743-749 Main Street, Buffalo, Erie County, New York
Subject Property Acreage (approximate)	0.31
Parcel ID(s)	111.30-3-5
Current Owner	Nathan Associates LLC
Current Subject Property Use/ Development	Costume Shop, vacant commercial units and apartments
Public Thoroughfares and Access/Egress	Main Street to the west, Washington Street to the east
Exterior Areas	Paved sidewalk
Surrounding Area	Urban
Subject Property Utilities	
Electric Source	National Grid
Natural Gas Source (if provided)	National Fuel
Potable Water Source	Public
Sanitary Wastewater Disposal	Public
Non-Sanitary Wastewater Disposal	N/A

2.1 Building Summary

Structure(s) located on the Subject Property are summarized in the following table:

Building Name	743-749 Main Street
Square Footage	32,868
Foundation Type	Full basement in western portion; no basement in eastern portion
Number of Stories	One



Construction Date	1900
Heating/Cooling Source	Natural gas
Current Use	Costume shop, storage, vacant commercial space, vacant apartment units

2.2 Physical and Hydrogeological Setting

Based on a review of provided records, the following information was obtained regarding the physical and hydrogeological setting of the Subject Property:

Topography	Generally level
Elevation (feet above mean sea level)	~630
Subject Property Water Bodies	None
Nearest Water Body	Lake Erie is approximately 1.06 miles to the southwest
Apparent Groundwater Flow	South
Soil Map Unit(s)	Urban land: areas that have been so altered or obscured by urban works and structures that identification of the soils is not feasible. Areas are mainly in the closely built-up parts of the city.
Geological Information	Onondaga and Bois Blanc Limestones, primarily limestone and sandstone

Refer to Figure 1 for a copy of the Subject Property Location/Topographic Map. Copies of the soil and geological maps and associated descriptions are summarized in the ERIS Physical Setting Report included in the [Hydrogeologic Information](#) Appendix. Groundwater flow was determined based on interpretation of the USGS topographic map and/or provided previous studies.



3.0 USER-PROVIDED INFORMATION

In accordance with the ASTM E1527-13/21, a "User" is defined as the party seeking to complete an environmental site assessment of the property. If the user is aware of any specialized knowledge or experience that is material to RECs in connection with the Subject Property, it is the user's responsibility to communicate any information based on such specialized knowledge or experience to the Environmental Professional. The User Questionnaire was completed by Alan Dewart, Purchasing Agent. A copy of the User Questionnaire is included in the [User Provided Information](#) Appendix.

ASTM Standard Practice E1527-13/21 User Questionnaire Questions	Reported by User
Land Title Records	
Are land title records available for review?	The User answered this question with an "unknown" response.
Environmental Liens or Activity Use Limitations	
Did a search of <i>recorded land title records</i> identify any environmental liens filed or recorded against the <i>property</i> under federal, tribal, state or local law?	The User answered this question with an "unknown" response.
Did a search of <i>recorded land title records</i> identify any AULs, such as <i>engineering controls</i> , land use restrictions or <i>institutional controls</i> that are in place at the <i>property</i> and/or have been filed or recorded against the <i>property</i> under federal, tribal, state or local law?	The User answered this question with an "unknown" response.
Specialized Knowledge	
Does the <i>User</i> of this <i>ESA</i> have any specialized knowledge or experience related to the <i>property</i> or nearby properties? For example, is the <i>User</i> involved in the same line of business as the current or former <i>occupants</i> of the <i>property</i> or an <i>adjacent property</i> so that the <i>User</i> would have specialized knowledge of the chemicals and processes used by this type of business?	The User reported that the purchaser owns five contiguous properties to the south of 743 Main Street.
Commonly Known or Reasonably Ascertainable Information	
Is the <i>User</i> aware of commonly known or <i>reasonably ascertainable</i> information about the <i>property</i> that would help identify conditions indicative of releases or threatened releases?	The User answered this question with an "unknown" response.



ASTM Standard Practice E1527-13/21 User Questionnaire Questions	Reported by User
Based on the <i>User's</i> knowledge and experience related to the <i>property</i> are there any <i>obvious</i> indicators that point to the presence or likely presence of releases at the <i>property</i> ?	Based on the User's knowledge and experiences related to the Subject Property, the User of this ESA is not aware of obvious indicators that point to the presence or likely presence of contamination at the Subject Property.
Valuation Reduction for Environmental Issues	
Does the purchase price being paid for the <i>property</i> reasonably reflect the fair market value of the <i>property</i> ?	The User did not report a below fair market value.
If the <i>User</i> concluded that there is a difference, has the <i>User</i> considered whether the lower purchase price is because contamination is known or believed to be present at the <i>property</i> ?	N/A

3.1 Reason For Performing Phase I ESA

According to ASTM 1527-13/21, either the User shall make known to the Environmental Professional the reason why the User wants to have the Phase I ESA performed or, if the User does not identify the purpose of the Phase I ESA, the Environmental Professional shall assume the purpose is to qualify for the Landowner Liability Protections under the Brownfields Amendments. The User indicated that the Phase I ESA is being conducted as part of a potential purchase.



4.0 SITE RECONNAISSANCE

LaBella conducted a site reconnaissance of the Subject Property and observation of adjacent properties from the Subject Property boundaries and public roadways, to the extent possible, to visually identify areas of concern. The site reconnaissance was conducted on September 7, 2022 by Allison Leet, Environmental Analyst with LaBella. At the time of the site reconnaissance, LaBella was accompanied by Ashok Kapoor, owner.

Observations discussed in this Section are noted on [Figure 3](#). Copies of the field notes taken during the site visit are included in the [Site Reconnaissance Worksheet](#) Appendix. Representative photographs of the Subject Property at the time of the site reconnaissance are included in the [Site Photographs](#) Appendix.

At the time of the site reconnaissance, a representative portion of the business, vacant spaces, and common areas were visually inspected. In addition, visual observations were limited at the time of the site visit due to stored materials. Additional site visit limitations are discussed in [Section 1.4](#).

Past Uses of Subject Property

The vacant spaces appeared to be former apartment units and retail spaces.

Hazardous Substances and Petroleum Products

No apparent hazardous substances or petroleum products were observed on the Subject Property.

Unidentified Substance Containers

There were no unidentified substance containers (e.g., unlabeled drums or totes) observed at the time of the site reconnaissance.

Storage Tanks

No apparent indications of aboveground or underground storage tanks (e.g., fill ports, vent pipes, access ways) were observed at the Subject Property at the time of the site visit.



Solid, Hazardous, and/or Regulated Wastes

The following wastes were noted, stored, or generated on the Subject Property:

Material	Source/Process	Storage Location/Quantity	Transporter/Hauler
General refuse/ recyclables	Residential and/or commercial operations	Cans/In front of the building facing Main Street	Modern

In addition, building materials were noted in areas of the subject structure associated with poor building conditions.

While not identified at the time of the site reconnaissance, the User should be aware that given the urban nature of the Subject Property location, there is the potential for fill material to be present on the Subject Property. Fill material generated as part of Subject Property redevelopment/ construction activities may be subject to chemical testing and/or proper handling requirements which may impact the overall project budget.

Odors

No apparent strong, pungent, or noxious odors were observed at the Subject Property at the time of the site reconnaissance.

Standing Water/ Pools of Liquid

No apparent pools, sumps, or standing water containing liquids likely to be hazardous substances or petroleum products were observed at the Subject Property at the time of the site visit.

PCB-Containing Equipment

No apparent PCB-containing equipment was observed at the time of the site reconnaissance.

Stains and Corrosion

No apparent stains or corrosion were observed at the time of the site reconnaissance.

Stressed Vegetation

No apparent stressed vegetation was observed at the time of the site reconnaissance.



Drains and Sumps

Although not noted at the time of the site inspection, the property owner stated that floor drains are located on the lower level of the subject structure. The floor drains reportedly discharge to the public sewer system.

Wastewater

Non-sanitary wastewater does not appear to be generated or discharged at the Subject Property.

Septic Systems and/or Cesspools

No apparent indications of septic systems or cesspools were observed at the time of the site reconnaissance or are reported to be located on the Subject Property.

Wells

No apparent potable, monitoring, irrigation, dry, or injection wells were observed at the time of the site reconnaissance or are reported to be located on the Subject Property.

Additional Information

There was no evidence of other potential concerns identified at the time of the site reconnaissance.

Adjacent Property Use

The Subject Property is bordered by the following properties:

Direction	Current Use/Occupant	Apparent Past Use	Potential Concerns Visible During Site Visit
North	Parking lot, commercial building (753 Main Street)	Same	None
East	Eastman Machine Co. and parking lot 775 Washington Street)	Same	None
South	Vacant commercial space (739 Main Street)	Commercial	None
West	Schmidt's Auto Body and Glass Shop (736-752 Main Street)	Same	None



Refer to [Regulatory Information](#) below for additional information regarding the north, south and west adjacent properties.

4.1 Site Reconnaissance Summary of Findings

Observations made by LaBella during the site reconnaissance did not identify conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property.

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5.0 SUBJECT PROPERTY HISTORY AND USE

LaBella attempted to review reasonably ascertainable and readily available standard sources of historical information as defined by the ASTM E1527-13/21 in order to identify all obvious uses of the Subject Property back to the first developed use or 1940, whichever is earlier (i.e., the historical research objective according to ASTM). Uses of the properties adjacent to the Subject Property are identified in this report only to the extent that this information was revealed in the course of researching the Subject Property itself and were determined at the discretion of the Environmental Professional. As such, LaBella reviewed only as many of these sources as necessary to achieve the historical research objective. Data failures and data gaps are identified, defined, and evaluated for their significance in [Section 1.3](#) of this report.

Additional/historical addresses of the Subject Property were identified through the review of historical sources as 743-749 Main Street and 744-748 Washington Street; these addresses were searched as part of the City Directory review discussed below.

5.1 Sanborn Fire Insurance Maps

The apparent historical use of the Subject Property and surrounding area, as depicted by the Sanborn maps, is summarized in the table below. A copy of the Sanborn maps is included in the [Historical Information](#) Appendix.

Year	Location	Occupant/Development
1889, 1899	Subject Property	Undeveloped
	Surrounding Area	Undeveloped to the north and south, residential to the west, Sacred Heart Convent to the east
1925	Subject Property	Developed with the existing structure used as storefronts on Main Street and a garage on Washington Street; a gasoline UST was noted in the roadway adjacent to 744 Washington Street
	Surrounding Area	Auto sales and garage to the south; filling station with one gas tank to the north; auto sales and storefronts to the west; Sacred Heart Convent to the east
1951	Subject Property	Developed with the existing structure used as light manufacturing and storefronts along Main Street and an auto repair facility along Washington Street



Year	Location	Occupant/Development
	Surrounding Area	Storefronts, photoshop, and blueprinting facility with one gas UST to the south; filling station with four gas tanks to the north; restaurant and storefronts to the west; Stella Niagara School to the east
1981, 1986	Subject Property	Developed with the existing structure used as storefronts/ commercial along Main Street and a radio equipment warehouse along Washington Street
	Surrounding Area	Filling station/commercial building to the north; commercial building and blueprinting to the south; parking lot to the east; storefronts/commercial and a restaurant to the west

The following adjacent property uses of potential concern were identified:

- The north adjacent property addressed as 749 Main Street was identified as a filling station from at least 1925 to at least 1981. In addition, one gasoline UST was depicted on the south adjacent property in at least 1951.

5.2 City Directories

City Directory research was completed by ERIS.

Identified occupants associated with the Subject Property are detailed in the table below. Copies of street directories are included in the [Historical Information](#) Appendix.

Year	Occupant Listings
1930	743 Main Street - Thos Rick (bicycles) 745 Main Street - Peerless Pants Co., Alf Ring Manufacturing Co., Becker Quality Ring Manufacturing Co., Emil Luccl (tailor) 747 Main Street - Aberdeen Golf Course 749 Main Street - Simon Electric Co.
1935	743 Main Street - Thos Rick (bicycles) 745 Main Street - Alf Ring Manufacturing Co., Becker Jewelry Manufacturing, Reliable Tailors, Buffalo Waiters Alliance Local 196, Buffalo Waiters Club 747-749 Main Street - Heywood-Wakefield Co. (salesroom) 746 Washington Street - Heywood-Wakefield Co. (receiving department)
1940	743 Main Street - Thos Rick (bicycles) 745 Main Street - Alf Ring Manufacturing Co., Becker Jewelry Manufacturing Co., Reliable Tailors, Buffalo Waiters Alliance Local 196, Harry Kreike engineer, Buffalo



Year	Occupant Listings
	Cooks Services Employees Local No 66, Journeymen Barbers Local 141, Cafeteria Dairy Lunch & Drug Stores Workers Local 369 747-749 Main Street - Arbuthnot-Stephenson Co floor coverings 746 Washington Street - Carlson Auto Supply Co Inc. (rear entrance)
1946	743 Main Street - Thos Rick (bicycles) 745 Main Street - Elk Filling Corp., Alf Ring Manufacturing Co., Becker Jewelry Manufacturing, Reliable Tailors, Harry Kreike engineer 747-749 Main Street - The Toy Tent 746 Washington Street - Norman Henning (auto repair)
1950	747 Main Street - Wm Allaire (manufacturing agent) 746 Washington Street - Elk Automotive Se repair
1955	743 Main Street - Thos Rick (bicycles) 745 Main Street - National Flag & Emblem Co., Becker Jewelers Inc. manufacturing 747-749 Main Street - The Toy Tent 746 Washington Street - Elk Automotive Service
1960	743 Main Street - Thos Rick (bicycles) 745 Main Street - National Flag & Emblem Co., Becker Jewelers Inc. manufacturing, Trico Workers Union 747-749 Main Street - Waldorf Whole Furniture Galleries Inc. 740-746 Washington Street - Transparent Bag Co of Buffalo
1965	743 Main Street - Ricks Cycle Shop 745 Main Street - National Flag & Emblem Co., Becker Jewelers Inc., Albert Caldwell watchmaker 747 Main Street - Purchase Radio & Hi-Fi Corp., Lafayette Radio Electronics Association 740-746 Washington Street - Sullivan & McKeegan Co Inc (rear entrance)
1971, 1976	743 Main Street - Ricks Cycle Shop 745 Main Street - National Emblem Co., Becker Jewelers Inc., residential 747 Main Street - Purchase Radio Electronics
1980	743 Main Street - Ricks Cycle Shop 745 Main Street - National Emblem Co., Becker Jewelers Inc., residential tenant, Empire State Ballet 747 Main Street - Purchase Radio Elec
1985	743 Main Street - Ricks Cycle Shop 745 Main Street - Becker Jewelers Inc., residential tenant, Empire State Ballet 747 Main Street - Purchase Radio Electronics
1990	743 Main Street - Ricks Cycle Shop 745 Main Street - Empire State Ballet



Year	Occupant Listings
1995	743 Main Street - Ricks Cycle Shop 745 Main Street - Empire State Ballet, Hodge Brian Photo, Steve James Design, residential tenant
2000, 2003	743 Main Street - Ricks Cycle Shop 747 Main Street - DC Theatricks costume shop
2008	745 Main Street - Residential tenants 747 Main Street - DC Theatricks costume shop
2012, 2016, 2020	747 Main Street - DC Theatricks costume shop

Review of the city directories indicated that properties surrounding the Subject Property were historically utilized for industrial, commercial, educational, religious, and residential purposes. The following adjacent property uses of potential concern were identified:

- The west adjacent property addressed as 746 Main Street was identified as a dry cleaner from at least 1955 to at least 1976.
- The west adjacent property addressed as 740 Main Street was identified as an automotive repair or auto body repair shop from at least 1930 to at least 1985.
- The east adjacent property at 779 Washington Street was listed as Eastman Machine Company from at least 1930 to at least 2020.

5.3 Aerial Photographs

The table below outlines observations of the Subject Property and surrounding area obtained from the review of aerial photographs. Copies of aerial photographs are included in the [Historical Information](#) Appendix.

Year	Location	Development
1959, 1966, 1974, 1995, 2005, 2009, 2015, 2019	Subject Property	Appeared to be developed with the existing structure
	Surrounding Area	Urban development, parking lots

The following adjacent property uses of potential concern were identified.

- The north adjacent property appeared to include a pump island (related to gasoline station use) from at least 1959 to at least 1974.



5.4 Topographic Maps

As sufficient information was obtained through a review of Sanborn maps, city directories, aerial photographs, and municipal records, topographic maps were not reviewed as part of this assessment.

5.5 Municipal Records

LaBella obtained municipal records from the City of Buffalo on September 1, 2022. In addition, limited assessment information was obtained from the Landmax Data Systems, Inc. website. The following information was obtained from these records. Copies of municipal records are included in the [Municipal Information](#) Appendix.

	Findings/Details
Parcel ID(s)	111.30-3-5
Subject Property Size (acres)	0.31
Current Owner	Nathan Associates LLC
Former Owners	Eric Chaffee, Schwalenberg
Square Footage of Building(s)/Date(s) of Construction	32,868/1900
Provided Utilities	All public

According to a letter from the City of Buffalo, there were no demolition/construction permits or tank records for 743 Main Street. LaBella reviewed records for the Subject Property at the City of Buffalo municipal offices; no records of concern were identified.

5.6 Recorded Land Title Records

According to the ASTM Standard Practice E1527-13/21, “the user should either engage a title company or title professional to undertake a review of reasonably ascertainable land title records and lien records for environmental liens or activity and use limitations currently recorded against or relating to the property or to negotiate such an engagement of a title company or title professional as an addition to the Scope of Work to be performed by the Environmental Professional.”

Title records were not provided to LaBella for review.

5.7 Additional Sources

No additional historical sources were reviewed.



5.8 Review of Previous Reports

No previous environmental reports were provided to LaBella for review.

5.9 Historical Summary of Findings

Based on LaBella's review of historical sources, the history of the Subject Property is as follows:

Time Period	Apparent Use/Development
In or before 1899 through at least 1899	Undeveloped
1900 through present	Developed with the existing structure, used as various storefronts, jewelry manufacturing, radio/electronics company, offices, and residential use, The eastern portion was used as a garage with a gasoline UST in at least 1925 and as an automotive repair facility from at least 1946 to at least 1955

Based on LaBella's review of historical information, the adjacent properties were historically utilized for commercial, educational, religious, and residential purposes. Adjacent properties of concern included a north adjacent gasoline station, an east adjacent machine shop, and west adjacent dry cleaner and auto repair facilities, Refer to Section 6.1.2 for adjacent property regulatory listings. There were no regulatory listings for the former dry cleaner at 746 Main Street; however, 746 Main Street is located topographically cross-gradient and across divided Main Street from the Subject Property.

LaBella's historical research identified the following conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property:

- The eastern portion of the subject structure was identified as a garage with a gasoline UST in the adjacent roadway in at least 1925 and as an auto repair facility from at least 1946 to 1955.



6.0 REGULATORY INFORMATION

Federal, state, and tribal environmental regulatory information was provided by ERIS, an independent research firm, which completed an ASTM-compliant regulatory records search. This search was completed to ASTM-defined search distances; however, it should be noted that the distances searched may have been modified based on LaBella's experience due to the geology or nature of the area, as permitted under ASTM E-1527-13/21. Additionally, ERIS conducted a search of supplemental Federal, state, tribal, and local databases to augment the ASTM-specified search; any relevant listings from these supplemental searches are summarized in the following sections. The ERIS report, dated August 31, 2022 is included in the [Regulatory Information](#) Appendix.

The review of regulatory information was completed to evaluate the potential for environmental impact to the Subject Property, including contaminant migration from off-Subject Property locations. This evaluation included a review of regulatory records along with geologic/hydrogeologic information, topographical information, and/or distance relative to the Subject Property.

6.1 Regulatory Report Summary

A complete list of the databases reviewed is included within the ERIS report. Below is a summary of the identified listings within their respective search distance:

Regulatory Report Summary

Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
ALT FUELS	0.25	0	0	9	-	-	9
AST	0.25	0	1	4	-	-	5
BROWNFIELDSDS	0.5	0	1	5	5	-	11
CERCLIS	0.5	0	0	0	2	-	2
CERCLIS NFRAP	0.5	0	0	0	1	-	1
COOLING TOWERS	0.125	0	1	-	-	-	1
DELISTED DRYCLEANERS	0.25	0	0	1	-	-	1
ENG	0.5	0	1	2	2	-	5



Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
ERP	0.5	0	0	1	0	-	1
FED BROWNFIELD	0.5	0	0	0	1	-	1
FUDS	1.0	0	0	0	0	1	1
GEN MANIFEST	0.125	0	8	-	-	-	8
HIST GAS STATIONS	0.25	0	0	1	-	-	1
HSWDS	1.0	0	0	0	0	4	4
INST	0.5	0	1	2	2	-	5
LST	0.5	0	1	2	30	-	33
MGP	1.0	0	0	0	0	3	3
NY MANIFEST	0.125	0	1	-	-	-	1
NY SPILLS	0.25	0	13	23	-	-	36
PCB	0.5	0	0	1	0	-	1
PRP	0.02	0	1	-	-	-	1
RCRA CORRACT S	1.0	0	0	1	0	1	2
RCRA LQG	0.25	0	2	3	-	-	5
RCRA NON GEN	0.25	0	8	10	-	-	18
RCRA SQG	0.25	0	0	1	-	-	1
RCRA TSD	0.5	0	0	1	1	-	2
RCRA VSQG	0.25	0	1	3	-	-	4
REC MANIFEST	0.25	0	0	1	-	-	1
SEMS ARCHIVE	0.5	0	0	0	1	-	1
SHWS	1.0	0	0	0	0	2	2



Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SWF/LF	0.5	0	0	0	2	-	2
TANKS	0.25	0	0	1	-	-	1
UST	0.25	0	0	5	-	-	5

6.1.1 Subject Property Listings

No regulatory listings associated with the Subject Property were identified.

6.1.2 Adjacent Property Listings

The following regulatory listings associated with adjacent properties were identified:

Uniform Name Makers Inc., 742 Washington Street (south)

- LST Facility: Spill # 0551547 involved the discovery of contaminated soil while removing a fuel oil UST and is classified as closed by the NYSDEC. Contamination was below STARS limits and soil was disposed of in drums.

Schmidt's Auto Body & Glass, 555 Pearl Street (west)

- RCRA (ID No. NYD982279259) Non-Generator with one violation that was resolved
- Manifest listing associated with the RCRA generator listing

Dependable Cab, 757 Main Street (northwest)

- NY Spill listing: Spill # 9802624 involved a report of oil and grease on an asphalt parking lot; only minor staining was noted and the spill was classified as closed by NYSDEC.

Due to the nature and/or status of the listings, there does not appear to be a REC for the Subject Property in association with the adjacent regulatory listings at this time.

Moped Repair Shop, 753 Main Street (north)

- NY Spill listing: Spill # 0175129 involved the discovery of contaminated soil in 2001 while removing a UST and associated piping; this spill is classified as closed by NYSDEC. Although this spill is classified as closed, there was residual contamination remaining under buildings and no groundwater sampling was conducted. Based on this information and the upgradient location relative to the Subject Property, this spill is considered a REC.



6.1.3 Additional Listings

Based on distance, none of the other sites listed within the database report are considered likely to have current or former releases of hazardous substances and/or petroleum products with the potential to migrate to the Subject Property.

6.1.4 Unmappable Listings

Unmapped facilities were identified within the ERIS report. The specific location of these listings could not be determined due to incomplete or inaccurate address information. Based on the limited address information available for the listings, they do not appear to be associated with the Subject Property or adjacent properties.

6.2 Enforcement Action/Permitted Activities/Institutional Controls

No recorded enforcement actions or institutional controls were identified for the Subject Property during this Phase I ESA.

Provided information indicates that the Subject Property is not subject to environmental permit activities.

6.3 Regulatory Agency File and Records Review

The purpose of the regulatory file review is to obtain sufficient information to assist the Environmental Professional in determining if a recognized environmental condition, controlled recognized environmental condition, historical recognized environmental condition, de minimis condition, or significant data gap exists at the Subject Property in connection with the identified listings. Regulatory listings identified in the database report for the Subject Property and adjacent properties were evaluated in order to determine the need for a regulatory file review. Based on this evaluation, the following was concluded:

- As sufficient information was included within the ERIS report, no file review was warranted.

6.4 Regulatory Information Summary

Labella's review of regulatory information identified the following conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property.

- The NY Spill (#0175129) listed for the north adjacent property involved the discovery of contaminated soil in 2001 while removing a UST and associated piping; this spill is classified as closed by NYSDEC. Although this spill is classified as closed, there was residual contamination remaining under buildings and no groundwater sampling was conducted.



Based on this information and the upgradient location relative to the Subject Property, this spill is considered a REC.

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7.0 INTERVIEWS

Interviews were completed with representatives of the owner/operator of the Subject Property, Subject Property occupants, neighbors, and/or former owners/operators, to the extent possible, to further assess Subject Property operations and/or potential environmental concerns.

Additional information was obtained through federal, state, tribal, and/or local agencies or via the submission of Records Requests, as documented below.

7.1 Owner/Subject Property Representative

Ashok Kapoor, owner, completed a questionnaire related to the Subject Property on September 7, 2022. According to the questionnaire:

- The Subject Property is currently used as storage and by DC Theatricks (costume shop and manufacturing).
- Former uses included a jeweler, bike shop, residential, dance hall, skating rink, produce market, and storage.
- Fuel oil has not been used on-site to his knowledge.

The questionnaire is included in the [Owner/Operator Questionnaire](#) Appendix.

7.2 Current Occupants

See [Section 7.1](#) above.

7.3 Former Owners/Operators/Occupants

No past owners/occupants were contacted because no contact information was provided through available municipal records or through a focused online search.

7.4 Neighbors

The Subject Property is not an abandoned property; therefore, interviews with the neighboring property owners were not conducted.

7.5 Local Government Official

A FOIL request was submitted to the City of Buffalo, Rhonda Zloty on August 30, 2022 requesting copies of building department, assessment, and fire marshal records on file for the Subject Property. A response was received on September 1, 2022; relevant records are discussed in Section 5.5 above. A copy of the FOIL request and the records obtained from the City of Buffalo. Research was also



conducted at the City of Buffalo municipal offices. FOIAs and documentation are included in the [Municipal Information](#) Appendix.

7.6 State Regulator

A FOIL request was submitted to the NYSDEC on September 9, 2022.

As of the date of this report submission, a complete response has not been received from the NYSDEC. A copy of the FOIL request is included in the [Municipal Information](#) Appendix.

7.7 State and/or County Health Department

A FOIL request was submitted to the NYSDOH on August 30, 2022.

As of the date of this report submission, a response has not been received from the NYSDOH. A copy of the FOIL request is included in the [Municipal Information](#) Appendix.

7.8 Summary of Interviews

LaBella's interviews and/or review of provided records did not identify conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property.



8.0 ADDITIONAL SERVICES/ASTM NON-SCOPE CONSIDERATIONS

No additional services were provided or agreed upon as part of this assessment.

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9.0 FINDINGS AND OPINIONS

The Subject Property, 743-749 Main Street, Buffalo, New York, includes 0.31-acres of land and is developed with a costume shop and vacant commercial and residential spaces. The subject property has previously always been mixed commercial and residential.

Based on the results of this assessment, the following RECs have been identified in connection with the Subject Property:

- The eastern portion of the subject structure was identified as a garage with a gasoline UST in the adjacent roadway in at least 1925 and as an auto repair facility from at least 1946 to 1955. Although the UST was in the adjacent roadway, the associated piping and dispenser would likely have been located within the boundaries of the Subject Property.
- The NY Spill (#0175129) listed for the north adjacent property involved the discovery of contaminated soil in 2001 while removing a UST and associated piping; this spill is classified as closed by NYSDEC. Although this spill is classified as closed, there was residual contamination remaining under buildings and no groundwater sampling or vapor study was conducted. Based on this information and the upgradient location relative to the Subject Property, this spill is considered a REC.

Based on the results of this assessment, no CRECs have been identified in connection with the Subject Property.

Based on the results of this assessment, no HRECs have been identified in connection with the Subject Property.

Based on the results of this assessment, no de minimis conditions have been identified in connection with the Subject Property.

Based on the results of this assessment, no significant data gaps have been identified in connection with the Subject Property.

- The Subject Property currently includes a retail storefront and has historically included residential and commercial operations. While hazardous materials and/or petroleum products may have been used/stored in association with these operations, they are not considered to pose an environmental concern at this time.
- The Site Building is currently heated with natural gas. Given the age of the structure, there is the potential for previous heating systems to have been in use on-site. However, there were



no records or evidence identified to suggest an on-site concern relative to historical heating systems at this time

9.1 Recommendations

Based on the findings of this assessment, further investigation appears warranted at this time.

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10.0 CONCLUSIONS

LaBella has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13/21 for 743-749 Main Street, Buffalo, New York, the Subject Property. Any exceptions to, or deletions from, this practice are described in [Section 1.4](#) of this report.

This assessment has revealed the following recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the Subject Property:

- Past on-site automotive repair operations and associated gasoline UST
- Adjacent up-gradient spill

This report constitutes the findings and recommendations of LaBella's investigation conducted for the Subject Property as written and reviewed by the following personnel:

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