

Figure 1: 743 Main Street - Boring Locations

Note: All analytical results listed in this figure are above restricted residential, commercial, or industrial SCOs.

Soil Boring ●
Site Boundary —

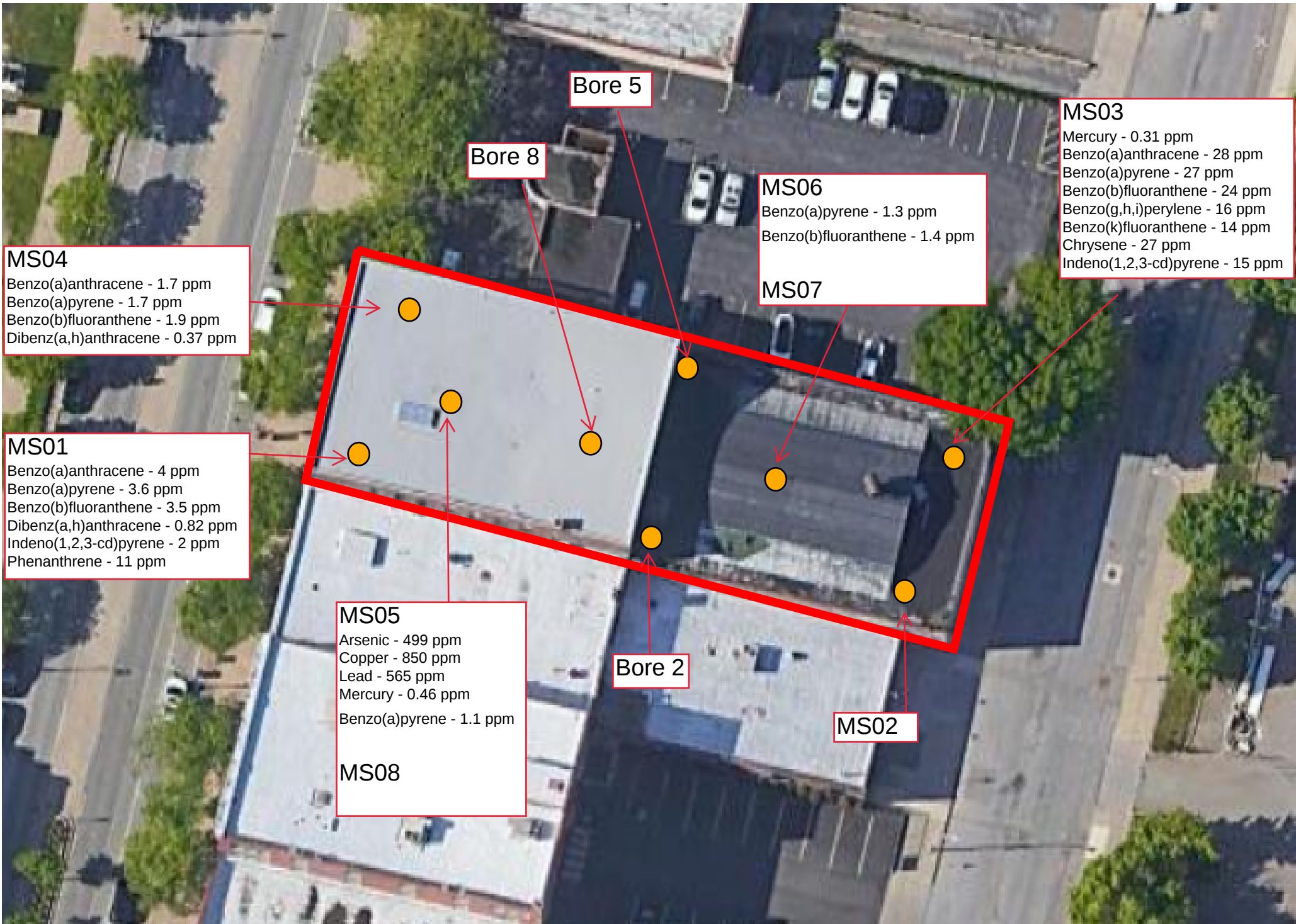


Figure 1: 743 Main Street - Boring Locations

743 Main Street
Buffalo, New York

5/9/2023
Avalon Development

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report May 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date						NYSDEC Soil Cleanup Objectives (SCOs)				
	MS01 4-8'	MS02 4-8'	MS03 4-8'	MS04 4-8'	MS05 4-8'	MS06 4-8'	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	5/9/2023										
METALS/INORGANICS											
Arsenic	9.0	7.4	3.8	5.0	12.5	499.0	13	16	16	16	16
Barium	114.0	202.0	60.0	222.0	99.2	50.8	410	410	410	410	10,000
Beryllium	0.73	0.60	0.33	0.58	0.81	0.15 J	4.4	8.8	43	670	750
Cadmium	0.47	0.50	0.5	0.380	0.43	0.28	2.5	2.5	2.5	3.7	4.4
Chromium	22.0	20.3	11.0	17.0	20.0	90.3	30	30	110	1,700	2,000
Copper	37.8	33.8	16.6	28.2	34.9	850.0	50	280	280	280	10,000
Lead	113	127	63.3	89.9	97.9	565	63	400	400	1,000	3,900
Manganese	430 B	394 B	569	392 B	421 B	439 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.067	0.11	0.310	0.1	0.079	0.46	0.18	0.26	0.26	1.1	1.1
Nickel	25.3	22.7	9.0	17.3	25.7	33.3	30	44	210	320	3,400
Selenium	0.97 J	0.48 J	ND	ND	0.43 J	2.8 J	4	22	110	1,700	2,000
Zinc	130	183	75.3	128.0	108	169	109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)											
Acenaphthene	0.79 J	ND	11	0.46 J	ND	0.19	20	100	100	500	1,000
Acenaphthylene	0.27 J	ND	2.5 J	ND	ND	0.12 J	100	100	100	500	1,000
Anthracene	2.8	ND	22	0.85 J	0.47	0.55	100	100	100	500	1,000
Benzo(a)anthracene	4	0.65 J	28	1.7 J	1.2 J	1.1	1	1	1.4	37	37
Benzo(a)pyrene	3.6	0.79 J	27	1.7 J	1.3 J	1.1	1	1	1	3.7	3.7
Benzo(b)fluoranthene	3.5	0.83 J	24	1.9	1.4 J	1.1	1	1	1.4	37	37
Benzo(g,h,i)perylene	2	0.46 J	16	1.2	0.78 J	0.62	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	1.9 J	0.45 J	14	0.86	0.88 J	0.62	0.8	1.2	4.9	47	78
Chrysene	3.7	0.75 J	27	1.8	1.4 J	1.1	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	0.82 J	ND	4.8	0.37	ND	0.21	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	1.1 J	ND	6.8	0.33	ND	0.18 J	2.1	4.2	18	180	290
Fluoranthene	13	1.8 J	80	4.6	3	2.6	85	100	100	500	1,000
Fluorene	1.7	ND	11	0.39	ND	0.26	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	2	0.56 J	15	1	0.85 J	0.62	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	13	ND	ND	0.21	12	84	100	500	1,000
Phenanthrene	11	1.1 J	76	3.3	1.4 J	2	1.1	1.2	4.9	47	78
Pyrene	6	1.0 J	47	2.8	1.7 J	1.8	64	100	100	500	1,000
ND Analyte not detected					Analyte detected						
- Not Applicable or sample not tested for this analyte					Reported concentration greater than or equal to the NYSDEC Unrestricted SCO						
J Estimated Concentration					Reported concentration greater than or equal to the NYSDEC Residential SCO						
B Analyte detected in method blank					Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO						
K Result is reported as Benzo(b)fluoranthene					Reported concentration greater than or equal to the NYSDEC Commercial SCO						
E Results exceeded calibration range					Reported concentration greater than or equal to the NYSDEC Industrial SCO						
T Result is Tentatively Identifies Compound and an estimated value											

TABLE 2
SUMMARY OF GROUNDWATER RESULTS

Parameter Tested	Sample Identification, Approximate Groundwater Depth Below Top of Casing, and Sample Date		NYSDEC TOGS 1.1.1 GA
	MS07	MS08	
	-	-	
	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:
NYSDEC
TOGS

500

All units in micrograms per liter (µg/L)
New York State Department of Environmental Co
Technical and Operational Guidance Series
Analyte exceeds NYSDEC TOGS guidance value

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:		Bore 01		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID	Description		
	NO	TYPE					
0							
1							
2							
3							
4				0.0	0 - 4 feet - Urban Fill - Mix of brick, stone, soil		
5							
6							
7							
8	MS01	C		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 4-8' No odor, PID readings 0.7ppm No water encountered							

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Bore Hole Log



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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:		Bore 02		Depth to Bedrock:		N/A	
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		
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							

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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:		Bore 03		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID	Description		
	NO	TYPE				(ppm)	
0							
1							
2							
3							
4				0.0	0 - 4 feet - Urban Fill - Mix of brick, stone and soil		
5							
6							
7							
8	MS02	C		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 4-8' No odor, PID readings 0.0ppm Water encountered ~10' BGS							

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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:		Bore 04		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID	Description		
	NO	TYPE		(ppm)			
0							
1							
2							
3							
4				0.0	0 - 4 feet - Urban Fill - Mix of brick, stone and soil		
5							
6							
7							
8	MS03	C		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 4-8' No odor, PID readings 0.0ppm Water encountered ~10' BGS							

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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:		Bore 05		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID	Description		
	NO	TYPE				(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, 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
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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:		Bore 06		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID	Description		
	NO	TYPE					
0							
1							
2							
3							
4				0.0	0 - 4 feet - Urban Fill - Mix of brick and stone		
5							
6							
7							
8	MS04	C		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 4-8' No odor, PID readings 0.0ppm Water encountered ~10' BGS							

Geoprobe Bore Hole Log



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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:		Bore 07		Depth to Bedrock:		N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description		
	NO	TYPE					
0							
1							
2							
3							
4				0.0	0 - 4 feet - Urban Fill - Mix of brick and stone		
5							
6							
7							
8	MS05	C		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 4-8' MS08 Water sample ~12'-16' PID readings from well were 1.1ppm Water encountered ~10' BGS							

Geoprobe
Bore Hole Log



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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:		Bore 08		Depth to Bedrock:		N/A	
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 - 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



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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:		Bore 09	Depth to Bedrock:		N/A
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	MS06	C		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 4-8' MS07 Water sample ~12'-16' PID readings from well were 0.0ppm Water encountered ~8' BGS					

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

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

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Authorization



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Authorized for release by
John Beninati, Project Manager
John.Beninati@et.eurofinsus.com
(716)504-9874

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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.

Eurofins Buffalo

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

Lab Sample ID: 480-208767-5

Date Collected: 05/09/23 11:00

Matrix: Solid

Date Received: 05/10/23 17:00

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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	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	
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	
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

Address:

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:		TAL-8210	
Client Contact Company Name: <u>BE3</u> Address: <u>960 BUSTI AVE</u> City/State/Zip: <u>BUFFALO NY</u> Phone: <u>716-545-2143</u> Fax: _____ Project Name: <u>743 MAIN ST.</u> Site: _____ PO #: _____		Project Manager: Tel/Email: _____ Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Site Contact: Lab Contact: _____ Perform MS/MSD (Y/N) _____ Filtered Sample (Y/N) _____		Date: _____ Carrier: _____ COC No.: _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sample Specific Notes: _____	
Sample Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months	
Sample Data		Barcode 480-208767 Chain of Custody	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	# of Cont.
5-9-23	10:30	C	4
5-9-23	11:00	C	3
5-9-23	11:20	C	3
5-9-23	12:10	C	3
5-9-23	11:00	C	4
5-9-23	1:45	C	1
5-9-23	1:30	C	2
5-9-23	1:30	C	2
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
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.			
Special Instructions/QC Requirements & Comments:			
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temp. (°C): Obs'd: _____ Cor'd: _____	
Relinquished by: <u>G. Rodan</u>		Received by: _____	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

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	