

SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

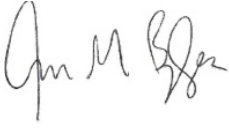
**273 & 337 HICKORY STREET
And
229, 231 & 235 PRATT STREET
BUFFALO, ERIE COUNTY, NEW YORK**

Prepared for:
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November 2023

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1.0 INTRODUCTION

Brydges Engineering in Environment and Energy (BE3) completed a Phase II Environmental Site Assessment (ESA) for five adjacent/nearby parcels including: 273 and 337 Hickory Street and 229, 231 & 235 Pratt Street, Buffalo, Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II was completed in accordance with ASTM E1903-19 - Standard Guide for Environmental Site Assessments:- Phase II Environmental Site Assessment Process and in general accordance with the most current updates of New York State Department of Environmental Conservation NYSDEC Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10). Fieldwork for the assessment was completed over the course of two dates including June 13, 2023, at 273 Hickory Street and October 23, 2023, when the project was expanded to include 337 Hickory Street and 229, 231 and 235 Pratt Street properties.

This assessment included an investigation across the properties (refer to **Figure 2**). The purpose of the assessment was to obtain information and data for assessing potential environmental impacts at the properties and to determine if the properties are eligible for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

1.1 BACKGROUND

1.1.1 General Site Setting

The area is a typical northeast urban mixed-use context with old vacant or underused factory buildings surrounded by residential units and mixed commercial uses. The following briefly describes the subject properties.

273 Hickory Street (SBL: 111.57-3-1.21) is a 0.5-acre property that currently contains a brick one-three story, 39,225-square foot, former industrial building which occupies most of the parcel. Currently the building is used as a warehouse and is in some disrepair with parts of the upper floors removed and/or in structural distress.

337 Hickory Street (SBL: 111.49-7-7) is a 0.2-acre property that currently contains a vacant weed/grass and soil/debris covered lot.

229 Pratt Street (SBL: 111.49-6-28) is a 0.01-acre property that currently contains a vacant grass covered lot. Some brick debris is located along its northern side.

231 Pratt Street (SBL: 111.49-6-29) is a 0.01-acre property that currently contains a vacant lot that is mostly covered with brick, soil and weeds. The brick/soil waste has elevated the site by about 1-2 feet and the east and west ends are free of debris and grass covered.

235 Pratt Street (SBL: 111.49-6-30) is a 0.15-acre property that is a vacant soil and weed covered lot that is currently used as a parking area for large trucks.

1.1.2 Physical Setting

The properties are located approximately one mile east of Buffalo City Hall. The elevation ranges from 600 to 635 feet above sea level. The five parcels are bounded by Broadway Avenue to the north, Hickory Street to the west, Castor Alley/Spring Street to the east and William Street to the south.

Local area topography is generally level sloping slightly to the south and west. Surface relief in the immediate vicinity of the subject property is relatively uniform, with overall gentle downward slopes towards the Buffalo River and Lake Erie which are less than one mile southwest, and the mouth of the Niagara River about one mile west.

1.1.3 Historical Use

The properties historical use are as follows:

273 Hickory Street - During the late 1800s the subject property appears to have been part of the brewery complex that existed across Iroquois Alley. By the 1920s and at least into the 1980s, the subject property functioned as a truck/vehicle repair and parking garage. An underground storage tank (UST) is shown on the subject 273 Hickory Street property on the 1950 and 1981 Sanborn maps along the southeast outside building wall. Fill ports and vent pipes indicating an existing tank were observed at this location during the site visit for a Phase I ESA completed in June 2023.

City records indicate that two tanks were associated with the building; one on what is now the adjacent southern parcel and one on the subject property where it appears located presently. A 1965 City of Buffalo building record and associated Buffalo Fire Department record indicates a 4,000-gallon underground steel gasoline tank was installed outside at 50-70 Iroquois Place located ten-twelve feet in from Iroquois Place and seven feet south of the building (what now appears to be the adjacent 271 Hickory property). The fire record also shows an existing 2,000-gallon tank east of the garage building and adjacent to Iroquois Place in a location where the tank exists currently. Notes in the city records indicate that the 2,000-gallon tank was converted to diesel fuel.

At the time of the site visit and Phase II field work various miscellaneous items were stored across the building rooms. There was some staining noted on the first-floor concrete slab from past property use and some small quantities of oils and chemicals were observed particularly on the northern end, where some empty and partially full drums and containers were noted.

337 Hickory Street – the property was residential from the late 1800s to at least 1930. By 1950 through at least the 1980s it was used as parking. Currently it appears to be a vacant lot.

229, 231 and 235 Pratt Street – these properties were mostly residential through the 1950s and became vacant lots prior to the 1980s. Historically, a large stamping and forged metal plant is located just south and a large iron works and forge to the north of these properties.

The Iroquois Brewery and various other breweries included the 273 Hickory Street property and was adjacent to the other parcels from 1892 through the 1971.

1.1.4 Contaminants of Concern

The history and use of the subject properties suggest there are potential contaminants of concern associated with fill material and past manufacturing/commercial use as well as petroleum use and storage on or adjacent to the properties. Potential contaminants include metals, polycyclic aromatic hydrocarbons (PAHs), petroleum related compounds, and possibly solvents.

PAHs are a group of chemicals that are formed during incomplete burning of wood, coal, gas, garbage, or other organic substances and are widely distributed in the environment and particularly in older urban environments where coal, gas, and petroleum were burned for heat and other energy uses. PAH compounds are common constituents of fill material found in urban environments, and are typically associated with both fill material, coal tar, and asphalt-based materials or ash.

1.2 SCOPE

The objective of this environmental assessment was to assess the potential for environmental impacts indicated by historical use at/adjacent to the subject properties and to determine if the property may be eligible for the BCP. This was completed by performing a field assessment of subsurface soil to assess the subject properties relative to the potential recognized environmental conditions (RECs) identified in previous environmental reports and from on-site and adjacent industrial use concerns. The scope included subsurface soil screening and sampling and to assess shallow groundwater if present.

2.0 FIELD INVESTIGATIONS

The subsurface assessment field work was initiated on June 13, 2023 concentrating on the 273 Hickory Street property and completed on October 23, 2023 after the project was expanded which included additional assessment on 273 Hickory Street and on the 337 Hickory Street, 229, 231 and 235 Pratt Street properties. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the properties. Nothnagle Drilling, Inc. provided the equipment and personnel to advance the borings. A photolog of field activities is included as **Appendix A** and boring logs are included in **Appendix B**.

2.1 SOIL SAMPLING

A total of nine (9) soil borings, designated Borings BH1 through BH9, were advanced at specific locations at the 273 Hickory Street parcel in June and a total of fifteen (15) soil borings, designated Borings BH-01 through BH-15, were advanced at specific locations across the properties in October (see **Figure 2**). Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across the parcels. Boring depths ranged from four (4) to eight (8) feet below ground surface (bgs) with most being advanced to 4 feet bgs. The borings were completed using a track mounted Geoprobe® unit which employs direct push

technology. Continuous soil sampling was performed using Macro Core soil samplers measuring approximately 44 inches in length and 1½ inches in diameter with acetate liners resulting in approximately 4-foot length distinct sample cores (i.e., 0 to 4 feet, 4 to 8 feet, 8 to 12 feet). Each of the samplers was fitted with a new acetate liner prior to use. Stratification of material observed in each boring are noted on boring logs, which are included in **Appendix B**.

Soil from each soil core was visually described and field screened for volatile organic compounds (VOCs) using a MiniRae 3000+ photoionization detector (PID) with a 10.6 eV Lamp and by visual and olfactory observations. Soil cores from borings were transported to a staging area adjacent to each borehole. The soil core was opened, and the length of the core was examined visually and with the PID. Odors, PID results, and observations were noted on the boring logs.

A total of eight (8) grab subsurface soil samples (BH1-BH9) were collected in June for analysis from 273 Hickory (one sample was placed on hold and never analyzed) and a total of eleven (11) additional soil samples (BH-01- BH-15) were collected for laboratory analysis in October 2023. The second set of soil samples collected in October were obtained from borings at 273 Hickory and across the other subject parcels when the project was expanded. Note, four samples from this field date were placed on hold and not analyzed.

A summary of the borings and the total grab subsurface soil samples that were collected at specific locations and depths from fill material are as follows:

- BH1 at 0.5-1 feet bgs at 373 Hickory Street. Total depth of boring was 4 feet bgs;
- BH2 at 0.5-1 feet bgs at 273 Hickory. Total depth of boring was 4 feet bgs – sample submitted to laboratory but analysis placed on hold;
- BH3 at 0.5--1 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH4 at 0.5--3 feet bgs at 273 Hickory Street. Total depth of boring was 8 feet bgs; Note, this boring was adjacent to existing UST and petroleum odors were observed
- BH5 at 273 Hickory Street – no sample collected. Total depth of boring was 2 feet bgs ending in refusal;
- BH6 at 1-2 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH7 at 0.5--2 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH8 at 2-3 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH9 at 1-3 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH-01 at 1-3 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH-02 at 0.5-1 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH-03 at 1-3 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs – sample submitted to laboratory placed on hold;
- BH-04 at 0.5-1.5 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs- sample submitted to laboratory placed on hold;
- BH-05 at 1-4 feet bgs at 273 Hickory Street. Total depth of boring was 4 feet bgs;
- BH-06 at 1-3 feet bgs at 337 Hickory Street. Total depth of boring was 4 feet bgs;
- BH-07 at 1-3.5 feet bgs at 337 Hickory Street. Total depth of boring was 8 feet bgs;
- BH-08 at 0-1.5 feet bgs at 229 Pratt Street. Total depth of boring was 4 feet bgs - sample submitted to laboratory placed on hold;
- BH-09 at 0-2 feet bgs at 229 Pratt Street. Total depth of boring was 4 feet bgs;

- BH-10 at 0-2 feet bgs at 229 Pratt Street. Total depth of boring was 4 feet bgs;
- BH-11 at 0-3 feet bgs at 231 Pratt Street. Total depth of boring was 4 feet bgs;
- BH-12 at 0-2 feet bgs at 231 Pratt Street. Total depth of boring was 4 feet bgs;
- BH-13 at 0-3 feet bgs at 235 Pratt Street. Total depth of boring was 4 feet bgs;
- BH-14 at 0-1 feet bgs at 235 Pratt Street. Total depth of boring was 4 feet bgs; and
- BH-15 at 0-1 feet bgs at 235 Pratt Street. Total depth of boring was 4 feet bgs - sample submitted to laboratory placed on hold.

All soil borings were backfilled with the soil from the boring and sealed. The soil samples were submitted to Eurofins Buffalo Laboratory which is a NYSDEC approved laboratory.

2.2 GROUNDWATER SAMPLING

No groundwater samples were collected because none of the borings indicated significant water at the zone the borings were completed.

2.3 SUBSURFACE CONDITIONS

The borings indicate that shallow subsurface conditions generally consisted of urban fill with construction and demolition debris consisting mostly of brick with some cement, glass and cinder and coal across most of the parcels. Fill depths ranged from 0.5 to 3-4 feet bgs in most locations with deeper fill depths in particular on the 231 Pratt Street. This parcel has mounded areas of C&D debris (mostly brick) mixed with urban soil. Below the fill in most locations was red-brown, stiff and tight silty-clay at most depths. No significant groundwater was observed at the depths of the boreholes. Most boreholes were completed to four feet with a few at eight feet (refer to borehole logs in **Appendix B**).

3.0 RESULTS

The results of the Phase II assessment indicated the following:

- Fill exists at shallow depths under the slab at 273 Hickory Street and along its perimeter to about one (1) or two (2) feet in most locations and to about three (3) feet in some areas.
- An UST exists at 273 Hickory and based on soil samples and observations a spill exists from this UST.
- Urban fill depths range from one (1) to four (4) feet or more across the 337 Hickory and the 229, 231 and 235 Pratt Street parcels.
- The 231 Pratt Street parcel is mounded with 1-3 feet of brick, soil and other debris across most of the parcel.
- The shallow fill contains elevated levels of metals and semi volatile organic compounds, mostly polycyclic aromatic hydrocarbons (PAHs) in excess of NYSDEC Soil Cleanup Objectives (SCOs) including restricted residential, commercial and industrial SCOs at various locations.
- No significant volatile organic compounds were indicated in shallow subsurface soil except near the UST at 273 Hickory Street as noted above. Elevated concentrations of petroleum-type compounds, elevated photoionization survey instrument detections and

petroleum-type odors were observed in subsurface soils adjacent the UST at 273 Hickory Street (see **Figure 2**).

Soil samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC unrestricted, residential, restricted residential, commercial and Industrial Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (May 2010). The elevated petroleum impacts were also compared to the NYSDEC CP-51 Soil Cleanup Guidance. The Part 375 SCOs and standards are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**. Note, CP-51 is used to determine compliance with the Spill Response Program - Navigation Law (NL) section 176 (SRP).

3.1 SOIL

All nineteen soil samples were analyzed for NYSDEC Part 375 metals by EPA Method 6010C and NYSDEC Part 375 SVOCs by EPA Method 8270D. The samples were collected from near surface soil from approximately 0.5 to 4 feet bgs. Two soil samples, BH3 under the building slab in 273 Hickory Street and BH-4 adjacent to the UST, were collected at 273 Hickory Street and were analyzed for volatile organic compounds using method 8260C- Part 375 VOCs to assess a potential petroleum-type impact or solvents. The following is a summary of the results:

Metals

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

- Arsenic was above industrial SCOs at 16.7ppm in BH-07 on 337 Hickory Street; BH11 (16.3ppm) and BH-12 (17.9ppm) on 231 Pratt Street and BH-13 (16.9ppm) on 335 Pratt
- Barium exceeded the commercial SCOs in BH-07 (408ppm) on 337 Hickory Street
- Lead exceeded the restricted residential SCO in samples BH4 (491ppm) at 273 Hickory Street, in BH-06 (735ppm) and BH-07 (488ppm) on 337 Hickory Street, BH-10 (457ppm) on 229 Pratt Street, BH-12 (816ppm) on 231 Pratt Street and above commercial SCOs at BH-11 (1,130ppm) on 231 Pratt Street and BH-13 (2,240ppm) on 235 Pratt Street; and
- Mercury was elevated above the restricted residential SCO in BH-06 (1.5ppm) on 337 Hickory Street, in BH-09 (1.8ppm) on 229 Pratt Street, in BH-11 (1.3ppm), and in BH-13 on 235 Pratt Street.

Several metals were also above unrestricted and residential SCOs in various samples across the five properties – refer to **Figure 2**.

Semi-Volatile Organic Compounds (SVOCs)

Of the nineteen soil samples submitted for laboratory analysis, numerous samples had elevated SVOCs, mostly PAH compounds, above NYSDEC SCOs as follows – refer also to **Figure 2**:

- Benzo(a)anthracene was detected above restricted residential SCOs in BH-05 (2.9) and

BH8 (2.4ppm) at 273 Hickory Street, in BH-07 (5.5ppm) at 337 Hickory Street, in BH-09 (5.4ppm) and in BH-10 (1.2ppm) on 229 Pratt Street, at BH-11 (3.6ppm) on 231 Pratt Street, and at BH-13 (1.6ppm) on 235 Pratt Street. This compound was found above industrial SCOs in BH-12 (23) on 231 Pratt Street.

- Benzo(a)pyrene was detected above industrial SCOs BH-05 (2.9ppm) and BH8 (2.7ppm) at 273 Hickory Street, BH-07 (5.7ppm) at 337 Hickory Street, BH-09 (4.8ppm) and BH-10 (1.2) on 229 Hickory, BH-11 (4ppm) and BH12 (24ppm) on 231 Hickory, and in BH13 (1.8ppm) at 235 Hickory Street.
- Benzo(b)fluoranthene was detected above restricted residential SCOs in BH-05 (3.3) and BH8 (3.2ppm) at 273 Hickory Street, BH10 (1.4ppm) at 229 Pratt Street, Bh11 (4.6) at 231 Pratt Street, and Bh-13 (2.1ppm) at 235 Pratt Street. This compound was detected above commercial SCOs in BH-07 (6.3ppm) at 337 Hickory Street and BH-09 (5.7ppm) at 229 Pratt Street
- Benzo(k)fluoranthene was detected above restricted residential SCOs in BH-12 (14ppm) at 231 Pratt Street.
- Chrysene was detected above restricted residential SCOs in BH-07 (5.3ppm) at 337 Hickory Street, in BH-09 (5.3ppm) at 229 Pratt Street, and in BH-11 (4.1ppm) and BH-12 (26ppm) at 231 Pratt Street.
- Dibenz(a,h)anthracene was detected above restricted residential SCOs in BH-05 (0.35ppm) and BH8(0.55ppm) at 273 Hickory, and in BH-11 (0.490ppm) at 231 Pratt Street. This compound was detected above commercial SCOs in BH-07 (0.670) at 337 Hickory Street and BH-09 (0.560) at 229 Pratt Street and above industrial SCOs at BH-12 (2.3) at 231 Pratt Street.
- Indeno(1,2,3-cd)pyrene was detected above restricted residential SCOs in BH-05 (0.96ppm) and BH8 (1.5ppm) in 273 Hickory, in BH-07 (2.2ppm) at 337 Hickory Street, in BH-09 (1.4) at 229 Pratt Street, in BH11 (1.5ppm) at 231 Pratt Street, and in BH-13 (0.650ppm) at 235 Pratt Street. This compound was above commercial SCOs in BH-12 (8.2ppm) at 231 Pratt Street.

Volatile Organic Compounds (VOCs)

Borehole sample BH4 at 273 Hickory Street (adjacent to the UST) had elevated petroleum-based compounds. The compound 1,2,4 Trimethylbenzene (380ppm) was above industrial SCOs and 1,3,5 Trimethylbenzene (150ppm) was above restricted residential SCOs. Both are above NYSDEC CP-51 Soil cleanup guidance.

Soil samples collected from a borehole completed at an adjacent property during a separate investigation about 10-feet east of BH4 detected two compounds including 1,2,4 Trimethylbenzene (7.1ppm) and Xylenes – total (4.6ppm) above restricted residential SCOs and CP-51 soil cleanup objectives.

3.2 GROUNDWATER

No appreciable groundwater was observed in soil borings and therefore no temporary wells were installed. As such, no groundwater samples were collected.

4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts at the 273 and 337 Hickory Street and 229, 231 and 235 Pratt Street properties in Buffalo, New York. The properties were previously commercial and or residential as described in this report. Adjoining properties were of mixed use including the Crosby Metal Stamping complex (a large stamping and forged metal plant) east and south of the parcels, the Iroquois Brewery east and south of the properties and a large iron works and foundry northeast and north of the subject properties.

The assessment indicated that there are urban fill conditions existing at the properties ranging from at least one to three (1-3) feet bgs. Soil sample laboratory results from this fill material indicated elevated metal and SVOCs (primarily PAHs compounds) above NYSDEC restricted residential, commercial and industrial SCOs. An underground storage tank (UST) exists at the 273 Hickory Street property and elevated concentrations of petroleum-related compounds were detected in soil samples adjacent to the UST.

5.0 WARRANTS AND LIMITATIONS

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

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

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

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

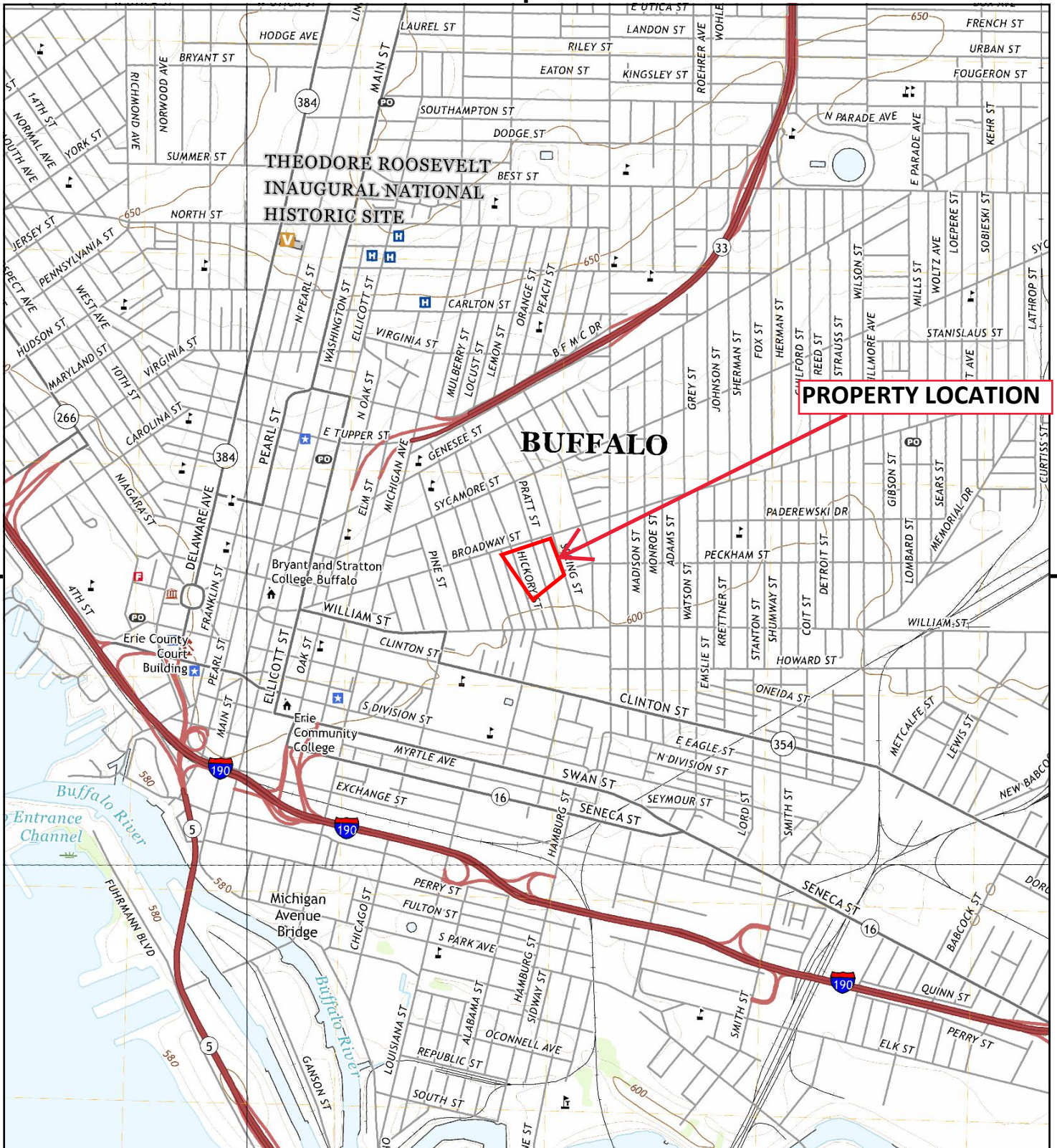
6.0 PROFESSIONAL STATEMENT/SIGNATURE

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

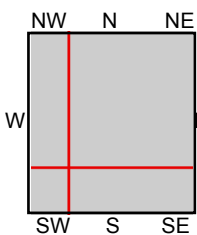
Peter J Gorton, MPH; CHCM

Date

FIGURES & TABLES



This report includes information from the following map sheet(s).



TP, Buffalo NE, 2019, 7.5-minute
 SE, Buffalo SE, 2019, 7.5-minute
 SW, Buffalo SE OE W, 2019, 7.5-minute
 NW, Buffalo NW, 2019, 7.5-minute

SITE NAME: 273 Hickory
 ADDRESS: 273 Hickory Street
 Buffalo, NY 14204
 CLIENT: BE3

FIGURE: Property Location



Figure 2: Boring Locations with Analysis



Figure 2: Boring Locations with Analysis

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report July 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date								NYSDEC Soil Cleanup Objectives (SCOs)				
	BH1	BH3	BH3	BH4	BH6	BH7	BH8	BH9	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	0.5-1	0.5-1	1-2	0.5-3	1-2	0.5-2	2-3	1-3					
	6/28/2023												
METALS/INORGANICS													
Arsenic	9.2	ND	6.80	6.10	ND	3.40	7.80	4.70	13	16	16	16	16
Barium	93.4 B	ND	196 B	148 B	ND	32.8 B	87.4 B	90.5 B	350	350	400	400	10,000
Beryllium	0.74	ND	0.81	0.71	ND	0.24	0.68	0.75	7.2	14	72	590	2,700
Cadmium	2.8 B	ND	0.44 B	0.31 B	ND	0.25 B	0.48 B	0.47 B	2.5	2.5	4.3	60	4.4
Chromium	15.3	ND	24.50	21.10	ND	7.00	17.40	20.80	30	36	180	1,500	6,800
Copper	43.8 B	ND	30.8 B	28.0 B	ND	7.0 B	46.2 B	19.2 B	50	270	270	270	10,000
Lead	76.90	ND	320.00	491.00	ND	12.20	203.00	138.00	63	400	400	1,000	3,900
Manganese	234 B	ND	470 B	324 B	ND	152 B	392 B	309 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.098	ND	0.41	0.67	ND	0.03	0.72	0.24	0.18	0.81	0.81	2.8	5.7
Nickel	26.50	ND	20.80	20.60	ND	8.30	17.40	15.50	30	140	310	310	10,000
Selenium	1.9 J	ND	1.1 J	ND	ND	ND	0.74 J	ND	3.9	36	180	1,500	6,800
Zinc	148 B	ND	140 B	95.2 B	ND	31.6 B	206 B	215 B	109	2,200	10,000	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)													
Acenaphthene	ND	ND	ND	0.049 J	0.15 J	ND	0.2 J	ND	20	100	100	500	1,000
Acenaphthylene	ND	ND	ND	ND	0.056 J	ND	0.17 J	ND	100	100	100	500	1,000
Anthracene	ND	ND	ND	ND	0.36	ND	0.49 J	ND	100	100	100	500	1,000
Benzo(a)anthracene	ND	ND	ND	0.18 J	0.74	0.06 J	2.4	0.083 J	1	1	1	5.6	11
Benzo(a)pyrene	ND	ND	ND	0.14 J	0.7	0.055 J	2.7	0.091 J	1	1	1	1	1.1
Benzo(b)fluoranthene	ND	ND	ND	0.16 J	0.8	0.64 J	3.2	0.085 J	1	1	1	5.6	11
Benzo(g,h,i)perylene	ND	ND	ND	0.062 J	0.46	0.032 J	1.8	0.042 J	100	100	100	500	1,000
Benzo(k)fluoranthene	ND	ND	ND	0.085 J	0.43	0.031 J	1.6	0.043 J	0.8	1	3.9	56	110
Chrysene	ND	ND	ND	0.18 J	0.83	0.062 J	2.9	0.080 J	1	1	3.9	56	110
Dibenz(a,h)anthracene	ND	ND	ND	ND	0.14 J	ND	0.55 J	ND	0.33	0.33	0.33	0.56	1.1
Fluoranthene	ND	ND	ND	0.34	1.3	0.11 J	5.5	0.072 J	85	100	100	500	1,000
Fluorene	ND	ND	ND	0.049 J	0.015 J	ND	0.2 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.055 J	0.41	0.028 J	1.5	0.038 J	0.5	0.5	1.4	5.6	11
Naphthalene	ND	ND	ND	14	0.17 J	ND	ND	ND	12	84	100	500	1,000
Phenanthrene	ND	ND	ND	0.13 J	1.4	0.088 J	ND	ND	1.1	100	100	500	1,000
Pyrene	ND	ND	ND	0.29	1.3	0.1 J	ND	0.083 J	64	100	100	500	1,000
VOLATILE ORGANIC COMPOUNDS (VOCs)													
1,2,4-Trimethylbenzene	ND	0.005 J	ND	380	ND	ND	ND	ND	3.6	47	52	190	380.0
1,3,5-Trimethylbenzene	ND	0.0022 J	ND	150	ND	ND	ND	ND	8.4	47	52	190	380.0
2-Butanone (MEK)	ND	0.0041 J	ND	ND	ND	ND	ND	ND	0.12	100	100	500	1,000
Acetone	ND	0.022 J	ND	ND	ND	ND	ND	ND	0.05	100	100	500	1,000
Methylene Chloride	ND	0.0053	ND	ND	ND	ND	ND	ND	0.05	51	100	500	1,000
Xylenes, Total	ND	0.0017 J	ND	41	ND	ND	ND	ND	0.26	100	100	500	1,000
TOTAL TENTATIVELY IDENTIFIED COMPOUNDS (TICS)													
Total TICs	ND	ND	ND	2100	ND	ND	ND	ND	N/A	N/A	N/A	N/A	N/A

ND Analyte not detected
 - Not Applicable or sample not tested for this analyte
 J Estimated Concentration
 B Analyte detected in method blank
 K Result is reported as Benzo(b)fluoranthene
 E Results exceeded calibration range
 T Result is Tentatively Identifies Compound and an estimated value

	Analyte detected
	Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
	Reported concentration greater than or equal to the NYSDEC Residential SCO
	Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
	Reported concentration greater than or equal to the NYSDEC Commercial SCO
	Reported concentration greater than or equal to the NYSDEC Industrial SCO

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Hickory and Pratt Street Phase II - Sample Identification and Sample Date						NYSDEC Soil Cleanup Objectives (SCOs)				
	BH-01 1-3'	BH-02 0.5-1'	BH-05 1-4'	BH-06 1-3'	BH-07 1-3.5'	BH-09 0-2'	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	10/23/2023										
	METALS/INORGANICS										
Arsenic	9.0	8.1	5.3	9.0	16.7	6.3	13	16	16	16	16
Barium	139.0	136.0	59.9	242.0	408.0	46.0	350	350	400	400	10,000
Beryllium	0.73	0.9	0.34	0.67	1.4	0.56	7.2	14	72	590	2,700
Cadmium	0.44	3.1	0.057 J	0.28	1.9	0.13 J	2.5	2.5	4.3	9.3	60
Chromium	17.5	19.3	9.0	20.8	25.6	10.0	30	36	180	1,500	6,800
Copper	32.6	34.4	10.5	36.6	92.7	23.1	50	270	270	270	10,000
Lead	230.0	87.7	52.0	735.0	488.0	38.5	63	400	400	1,000	3,900
Manganese	418 B	486 B	194 B	304 B	950 B	154 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.27	0.077	0.067	1.5	0.092	1.8	0.18	0.81	0.81	2.8	5.7
Nickel	17.7	29.9	9.1	23.9	17.7	15.9	30	140	310	310	10,000
Selenium	0.83 J	ND	ND	0.92 J	0.74 J	ND	3.9	36	180	1,500	6,800
Zinc	139.0	233.0	31.0	215.0	339.0	72.5	109	2,200	10,000	10,000	10,000
	SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)										
3-Methylphenol	ND	ND	0.042 J	ND	ND	ND	-	-	-	-	-
4-Methylphenol	ND	ND	0.042 J	ND	ND	ND	-	-	-	-	-
Acenaphthene	ND	ND	0.54	ND	0.940 J	1.1	20	100	100	500	1,000
Acenaphthylene	ND	ND	0.110 J	ND	ND	0.760 J	100	100	100	500	1,000
Anthracene	ND	ND	1.3	ND	2.1	3	100	100	100	500	1,000
Benzo(a)anthracene	0.150 J	ND	2.9	0.320 J	5.5	5.4	1	1	1	5.6	11
Benzo(a)pyrene	0.150 J	ND	2.9	0.330 J	5.7	4.8	1	1	1	1	1.1
Benzo(b)fluoranthene	0.170 J	ND	3.3	0.370 J	6.3	5.7	1	1	1	5.6	11
Benzo(g,h,i)perylene	0.120 J	ND	0.85	0.140 J	2.1	1.3	100	100	100	500	1,000
Benzo(k)fluoranthene	ND	ND	1.3	0.180 J	3.5	2.2	0.8	1	3.9	56	110
Chrysene	ND	ND	2.7	0.310 J	5.3	5.3	1	1	3.9	56	110
Dibenz(a,h)anthracene	ND	ND	0.35	ND	0.670 J	0.560 J	0.33	0.33	0.33	0.56	1.1
Dibenzofuran	ND	ND	0.43	ND	0.530 J	0.840 J	7	14	59	350	1,000
Fluoranthene	0.230 J	0.270 J	5.4	0.630 J	15	13	100	100	100	500	1,000
Fluorene	ND	ND	0.5	ND	0.850 J	1.5	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	ND	0.96	0.170 J	2.2	1.4	0.5	0.5	0.5	5.6	11
Naphthalene	ND	ND	0.38	ND	0.620 J	0.610 J	12	100	100	500	1,000
Phenanthrene	ND	ND	4.9	0.380 J	8.6	10	100	100	100	500	1,000
Pyrene	0.190 J	ND	3.6	0.440 J	8.5	7.9	100	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 Industrial SCO						
J Estimated Concentration					Reported concentration greater than or equal to the NYSDEC Commercial SCO						
B Anaalyte 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 Residential SCO						
E Results exceeded calibration range					Reported concentration greater than or equal to the NYSDEC Unrestricted SCO						
F1/F2 MS or MSD recovery exceeds control limits											
T Result is Tentatively Identifies Compound and an estimated value											

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Hickory and Pratt Street Phase II - Sample Identification and Sample Date					NYSDEC Soil Cleanup Objectives (SCOs)				
	BH10 0-2'	BH11 0-3'	BH12 0-2'	BH13 0-3'	BH14 0-1'	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	10/23/2023									
	METALS/INORGANICS									
Arsenic	13.0	16.3	17.9	16.9	3.2	13	16	16	16	16
Barium	162.0	260.0	258.0	378.0	151.0	350	350	400	400	10,000
Beryllium	0.66	0.9	0.86	1.4	3.1	7.2	14	72	590	2,700
Cadmium	0.63	1.3	0.78	1.3	ND	2.5	2.5	4.3	9.3	60
Chromium	17.7	27.9	24.5	20.4	7.7	30	36	180	1,500	6,800
Copper	49.7	57.0	38.8	85.3	16.9	50	270	270	270	10,000
Lead	457.0	1130.0	816.0	2240.0	31.0	63	400	400	1,000	3,900
Manganese	349 B	343.0	363 B	733 B	1240 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.46	1.3	0.80	1.5	0.1	0.18	0.81	0.81	2.8	5.7
Nickel	23.4	27.6	22.2	17.4	13.2	30	140	310	310	10,000
Selenium	ND	0.99 J	ND	2.2 J	0.94 J	3.9	36	180	1,500	6,800
Zinc	321.0	554.0	308.0	717.0	20.1	109	2,200	10,000	10,000	10,000
	SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)									
Acenaphthene	ND	0.380 J	1.5 J	0.310 J	ND	20	100	100	500	1,000
Acenaphthylene	ND	0.530 J	5.2	ND	0.092 J	100	100	100	500	1,000
Anthracene	ND	1 J	7	0.680 J	0.079 J	100	100	100	500	1,000
Benzo(a)anthracene	1.2 J	3.6	23	1.6 J	0.45	1	1	1	5.6	11
Benzo(a)pyrene	1.2 J	4	24	1.8 J	0.55	1	1	1	1	1.1
Benzo(b)fluoranthene	1.4 J	4.6	32	2.1	0.81	1	1	1	5.6	11
Benzo(g,h,i)perylene	0.450 J	1.4 J	7.9	0.690 J	0.2	100	100	100	500	1,000
Benzo(k)fluoranthene	0.600 J	2.7	14	1.1 J	0.28	0.8	1	3.9	56	110
Chrysene	1.1 J	4.1	26	1.6 J	0.54	1	1	3.9	56	110
Dibenz(a,h)anthracene	ND	0.490 J	2.3 J	ND	0.069 J	0.33	0.33	0.33	0.56	1.1
Dibenzofuran	ND	0.340 J	2.8 J	ND	0.160 J	7	14	59	350	1,000
Fluoranthene	2.7	11	77	4.1	1	100	100	100	500	1,000
Fluorene	ND	0.510 J	2.9 J	0.310 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	0.490 J	1.5 J	8.2	0.650 J	0.19	0.5	0.5	0.5	5.6	11
Naphthalene	ND	ND	1.1 J	ND	0.3	12	100	100	500	1,000
Phenanthrene	1.5 J	6.8	54	2.8	0.68	100	100	100	500	1,000
Pyrene	1.6 J	6.3	41	2.2	0.58	64	100	100	500	1,000
Notes: All units in parts per million (ppm)					Analyte detected					
ND Analyte not detected					Reported concentration greater than or equal to the NYSDEC Industrial SCO					
- Not Applicable or sample not tested for this analyte					Reported concentration greater than or equal to the NYSDEC Commercial SCO					
J Estimated Concentration					Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO					
B Analyte detected in method blank					Reported concentration greater than or equal to the NYSDEC Residential SCO					
K Result is reported as Benzo(b)fluoranthene					Reported concentration greater than or equal to the NYSDEC Unrestricted SCO					
E Results exceeded calibration range										
T Result is Tentatively Identifies Compound and an estimated value										

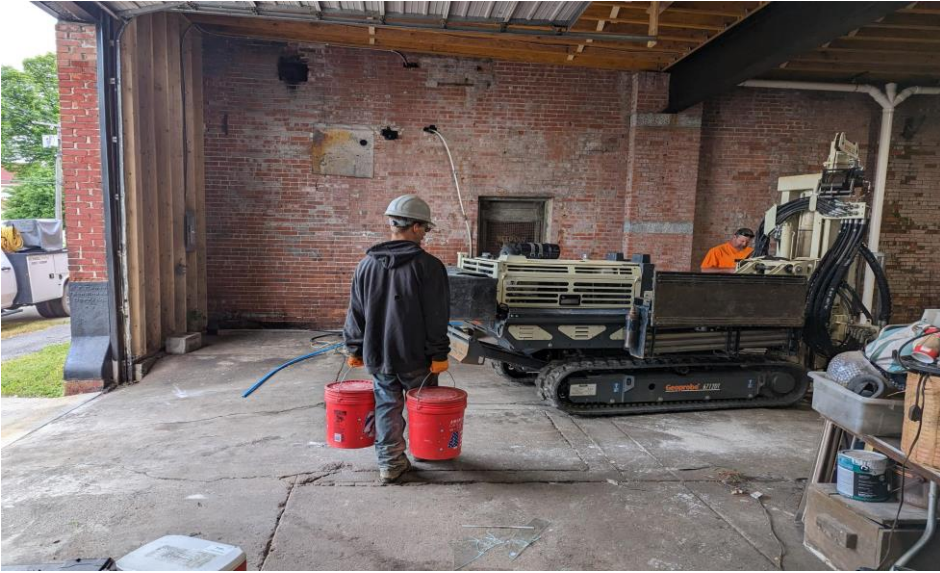
APPENDICES

APPENDIX A

Field Activity Photolog

BE3 Photolog

Date: 6/13/23



1. Location of Borehole BH-1 facing north



2. Location of Borehole BH-1 facing west



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



3. Soil cores from BH-1



4. . Location of Borehole BH-2 facing south

BE3 Photolog

Date: 6/13/23



5. Soil Core of BH-2



6. Location of BH-3 facing south



7. Location of BH-3 facing east



8. Soil core of BH-3



9. Location of Borehole BH-4



10. Location of BH-4



11. Soil core of BH-4



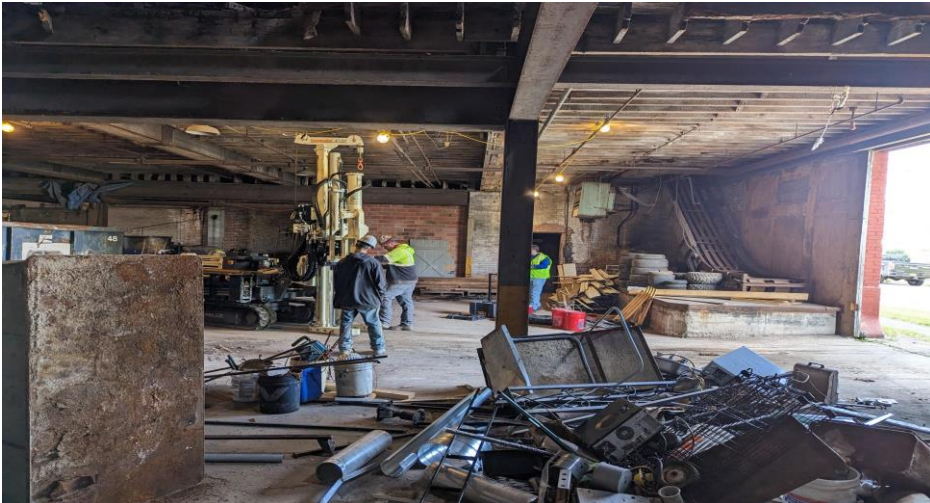
12. Soil Cores from BH-5 facing north



13. Location of Borehole BH-5 facing north



14. Location of Borehole BH-6



15. Soil cores BH-6



16. Soil core of BH-6



17 Location of Borehole BH-7 facing west



18. Location of BH-7 facing west



19. Location of Borehole BH-8 location facing west



20. Location of Borehole BH-8 facing north



21. Soil core of BH-8



22. Location of Borehole BH-9 facing south



23. Location of Borehole BH-9 facing west



24. Soil core of BH-9

BE3 Photolog

Date: 10/23/23



1. Location of Borehole BH-01 southwest corner of 273 Hickory Street



2. Location of Borehole BH-01



3. Soil cores from BH-01



4. . Location of Borehole BH-02 middle west in 273 Hickory Street

BE3 Photolog

Date: 10/23/23



5. Location of Borehole BH-02



6. Soil Cores BH-02



7. Location of Borehole BH-03 northwest side of 273 Hickory Street



8. Location of Borehole BH-03

BE3 Photolog

Date: 10/23/23



9. Soil cores BH-03



10. Location of Borehole BH-04 northeast side of 273 Hickory Street



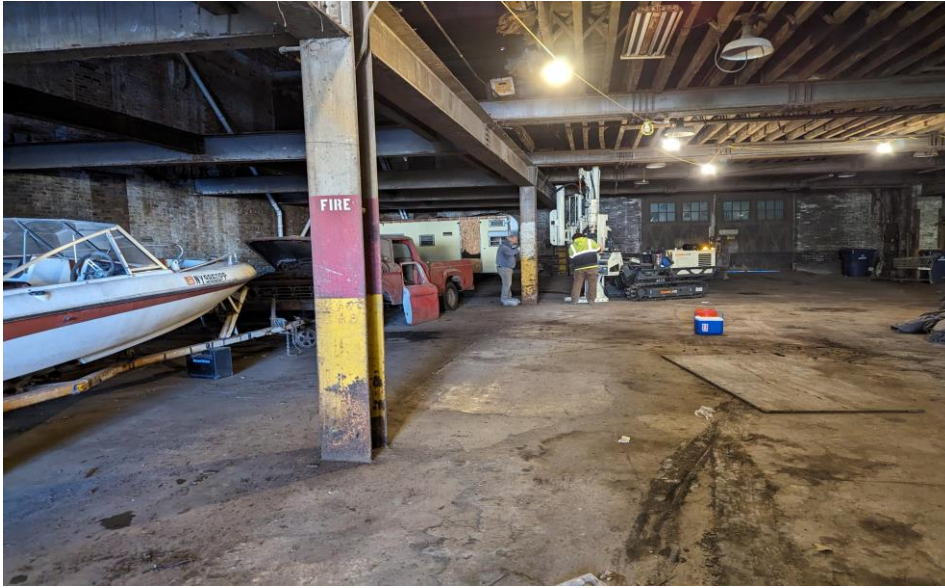
11. Location of Borehole BH-04.



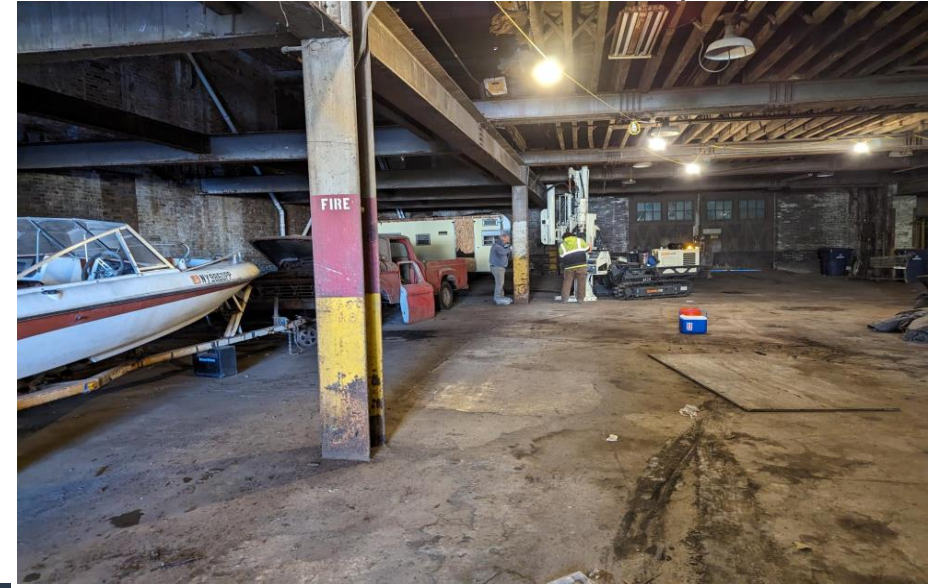
12. Soil Cores from BH-04

BE3 Photolog

Date: 10/23/23



13. Location of Borehole BH-05 north side of 273 Hickory Street



14. Location of Borehole BH-05.



15. Soil Core from BH-05



16. Location of Borehole BH-06 eastern end of 337 Hickory Street parcel

BE3 Photolog

Date: 10/23/23



17 Location of Borehole BH-06 east side of 337 Hickory Street facing east



18. Soil Cores from BH-06



19. View of BH-07 west side of 337 Hickory Street facing east



20. View of BH-07 from south facing north

BE3 Photolog

Date: 10/23/23



21. Soil core BH-07



22. Location of Borehole BH-08 west side of side of 229 Pratt Street facing east from Pratt Street



23. Location of BH-08 on 229 Pratt Street facing north



24. Location of borehole BH-09 on 229 Pratt Street facing north

BE3 Photolog

Date: 10/23/23



25. Location of Borehole BH-09 on 229 Pratt facing west



26. Location of BH-09 north-middle of 229 Pratt Street



27. Soil core BH-09



28. Location of Borehole BH-10 on eastern end of 229 Pratt Street facing north.

BE3 Photolog

Date: 10/23/23



29. Location of BH-10 on east end of 229 Pratt Street facing west toward Pratt Street



30. Borehole BH-11 on east end of 231 Pratt Street facing west



31. Location of Borehole BH-11 on 231 Pratt Street facing north



32. Soil core from BH-11

BE3 Photolog

Date: 10/23/23



33. Location of Borehole BH-12 on 231 Pratt Street from south facing north



34. Location of BH-12 on 231 Pratt Street from Pratt Street facing east.



35. BH-12 soil core



36. Location of Borehole BH-13 on east end of 235 Pratt Street from west facing east.

BE3 Photolog

Date: 10/23/23



37. Location of BH-13 on 235 Pratt facing south.



38. Soil core BH-13



39. Location of Borehole BH-14 on southwest side of 235 Pratt Street facing east from Pratt Street



40. Location of BH-14 on 235 Pratt Street facing north.

BE3 Photolog

Date: 10/23/23



41. Soil core BH-14.



42. Location of Borehole BH-15 on 235 Pratt Street in northwest side facing north



43. Location of Borehole BH-15 on northwest side of 235 Pratt Street facing east from Pratt Street



44. Soil Core BH-15.

APPENDIX B

Boring Logs

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

Comments: fill to 2.5 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-2 feet

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IN ENVIRONMENT AND ENERGY, DPC

716.249.6880  be3corp.com

Comments: fill to 2.5 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0.5-1 foot
sample for BH2 was sent to lab but held and not analyzed

Geoprobe Bore Hole Log



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

Project:				273 Hickory Street, Buffalo, New York Phase II	
Client:		Ellen Shareef		Location:	
				273 Hickory Street, Buffalo, NY	
Contractor:		Nonthnagle		Lat/Long:	
Date Started:		6/13/2023		Equipment Model:	
				Geoprobe	
Date Completed:		6/13/2023		Geologist/Technician:	
				Pete Gorton/Joe Gambino	
Operator:		Nonthnagle		Ground Water:	
				N/A	
Bore Hole Number: BH3				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- highly stained black sand and cinder
1					
2					1-2 feet- was clay silt with cinder fill
3					
4					2.5-4 feet - red-brown clay possibly re-worked
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: fill to 2.5 feet No odor. No water encountered. PID Not Functioning Soil Sample collected at 0.5-1 foot svoc+metal sample at 1-2 feet					

Geoprobe Bore Hole Log



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

Project:				273 Hickory Street, Buffalo, New York Phase II	
Client:		Ellen Shareef		Location:	
Contractor:		Nonthnagle		Lat/Long:	
Date Started:		6/13/2023		Equipment Model:	
Date Completed:		6/13/2023		Geologist/Technician:	
Operator:		Northnagle		Ground Water:	
Bore Hole Number:		BH4		Depth to Bedrock:	
Depth (Ft)		Sample		REC	
		NO TYPE		PID	
				(ppm)	
0				0-0.5 feet- Asphalt	
1					
2				1-2 feet- Saturated silty clay with gravel petroleum odor black and dark	
3					
4				2-4 feet - red-brown clay with a strong petroleum odor	
5					
6					
7					
8				4-8 feet - red-brown clay. Petroleum odor still strong at 7.5 feet	
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: impacted soil to at least 7.5 feet Strong petroleum odor . No water encountered. PID Not Functioning Soil Sample collected at 1-2 feet					

Geoprobe Bore Hole Log



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

Project:				273 Hickory Street, Buffalo, New York Phase II	
Client:		Ellen Shareef		Location:	
Contractor:		Nonthnagle		Lat/Long:	
Date Started:		6/13/2023		Equipment Model:	
Date Completed:		6/13/2023		Geologist/Technician:	
Operator:		Northnagle		Ground Water:	
Bore Hole Number:		BH5		Depth to Bedrock:	
Depth (Ft)		Sample		REC	
		NO TYPE		PID	
				(ppm)	
0					
1				0.5-1 foot- Concrete	
2				1-2 feet-Concrete	
3				refusal - end boring	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: Concrete to 4 feet No odor . No water encountered. PID Not Functioning No sample was collected This was a boring hole refusal we had hard concrete from surface level to 4 feet					

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

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Comments: Fill to 3.5 feet
No odor . No water encountered. PID Not Functioning
Sample collected at 1-2 foot

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

716.249.6880  be3corp.com

Comments: Fill material to 3 feet
No odor . No water encountered. PID Not Functioning
Sample collected at 1-2 foot

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

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Fill to 3.5 feet
No odor . No water encountered. PID Not Functioning
Sample collected at 1-2 foot

BRYDGES ENGINEERING
IN ENVIRONMENT AND ENERGY, DPC

716.249.6880  be3corp.com

Comments: fill to 2 feet
No odor . No water encountered. PID Not Functioning
Sample collected at 1-2 foot

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-01	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- cement
1					0.5-1 feet - black cinder sandy silt fill
2					1-2 feet - light brown silty clay fill
3					
4					2-4 feet - brown silty clay with pieces of brick
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 2feet and possibly4
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-3 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-02	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- cement
1					0.5-1 feet - sandy silt with slag, cinder and gravel fill
2					
3					
4					1-4 feet - brown silty clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-2feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0.5-1feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-03	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- cement
1					
2					
3					0.5-3 feet - black conder, brick, stone, cement fill
4					3-4 feet - sand
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-4feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-3 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-04	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- cement
1					
					0.5-1.5 feet - sandy silt, cinder, brick
2					
3					
4					1.5-4 feet - silty clay - brown
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-1.5feet
 No odor. No water encountered. PID Not Functioning
 Soil Sample collected at 0.5-1.5 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-05	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-0.5 feet- cement
1					
2					
3					
4					0.5-4 feet - silt fill with sand, cinder, brick and gravel/stone
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-4feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-4 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-06	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - silty clay fill with brick, cinder and gravel
3					
4					2-3.5 feet - silty clay with cinder and brick 3.5-4 feet - silty clay with cinder and pieces of coal
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-4feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-3 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-07	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					0-1 feet silty clay with stone/gravel and brick
2					
3					
4					
5					
6					
7					1-7 feet - sandy silty clay with black cinder, slag, brick and gravel
8					7-8 feet - Silty clay - native
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1-7 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 1-3.5 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-08	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
					0-1.5 - Clayey silt fill with some black cinder, brick and stone/gravel
2					
3					
4					1.5-4 feet - red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1.5 feet
 No odor. No water encountered. PID Not Functioning
 Soil Sample collected at 0-1.5 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-09	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - silt fill with brick, ash, cinder and sand
3					
4					2-4 feet - red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 2 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0-2 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-10	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - silt fill with coal, cinder, sand and gravel
3					
4					2-4 feet - red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 2 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0-2 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-11	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					0-3 feet - silt fill with brick, cinder, gravel and coal
4					3-4 feet - red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 3 feet
 No odor. No water encountered. PID Not Functioning
 Soil Sample collected at 0-3 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-12	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - silt fill with cinder, brick, slag, stone/gravel
3					
4					2-3.5 feet - silty clay 3.5-4 feet - cement
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 3 feet possibly below 4
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0-2 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-13	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-1 feet - silt fill with cinder & gravel
1					
					1-1.5 - cement
2					
3					
					1.5-3.5 feet - Silt fill with cinder and coal
4					3.5-4 feet - silty clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 3.5 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0-3 feet

Geoprobe Bore Hole Log



Project:			273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II		
Client:		Ellen Shareef	Location:		273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:		Northnagle	Lat/Long:		
Date Started:		10/23/2023	Equipment Model:		Geoprobe
Date Completed:		10/23/2023	Geologist/Technician:		Pete Gorton
Operator:		Northnagle	Ground Water:		N/A
Bore Hole Number:		BH-14	Depth to Bedrock:		N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-1 feet - silt fill with cinder, sand, and slag
1					
2					
3					
4					1-4 feet - silty red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1 feet
 No odor. No water encountered. PID Not Functioning
 Soil Sample collected at 0-1 feet

Geoprobe Bore Hole Log



Project:		273-337 Hickory St. & 229-235 Pratt St, Buffalo, New York Phase II	
Client:	Ellen Shareef	Location:	273-337 Hickory & 229-231-235 Pratt Streets, Buffalo, NY
Contractor:	Northnagle	Lat/Long:	
Date Started:	10/23/2023	Equipment Model:	Geoprobe
Date Completed:	10/23/2023	Geologist/Technician:	Pete Gorton
Operator:	Northnagle	Ground Water:	N/A
Bore Hole Number:	BH-15	Depth to Bedrock:	N/A

Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					0-1 feet - silt fill with cinder, coal and gravel
1					
2					
3					
4					1-4 feet - silty red-brown clay
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments: fill to 1 feet
No odor. No water encountered. PID Not Functioning
Soil Sample collected at 0-1 feet

APPENDIX C

Laboratory Data

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/28/2023 1:59:40 PM

JOB DESCRIPTION

273 Hickory - Buffalo, NY

JOB NUMBER

480-209823-1

Eurofins Buffalo

Job Notes

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Authorized for release by
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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

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

Eurofins Buffalo

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Job ID: 480-209823-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-209823-1

Comments

No additional comments.

Receipt

The samples were received on 6/13/2023 4:35 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 4.7° C.

GC/MS VOA

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: BH4 0.5-3 FEET (480-209823-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 673159 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: BH4 0.5-3 FEET (480-209823-5).

Method 8260C: The laboratory control sample (LCS) for preparation batch 480-673212 and analytical batch 480-673159 recovered outside control limits for the following analytes: 1,4-Dioxane and sec-Butylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to appearance, color and viscosity: BH1 0.5-1 FEET (480-209823-1), BH3 1-2 FEET (480-209823-4) and BH8 2-3 FEET (480-209823-8). 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: BH4 0.5-3 FEET (480-209823-5) and BH8 2-3 FEET (480-209823-8). These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix : BH3 1-2 FEET (480-209823-4). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-673481 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: BH4 0.5-3 FEET (480-209823-5). Elevated reporting limits (RLs) are provided.

Method 8270D: Surrogate recovery for the following sample was outside control limits: BH4 0.5-3 FEET (480-209823-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 6010C: The method blank for preparation batch 480-673359 and analytical batch 480-674359 contained Total Manganese above the reporting limit (RL). Associated samples BH1 0.5-1 FEET (480-209823-1), BH3 1-2 FEET (480-209823-4), BH4 0.5-3 FEET (480-209823-5), BH6 1-2 FEET (480-209823-6), BH7 0.5-2 FEET (480-209823-7), BH8 2-3 FEET (480-209823-8) and BH9 1-3 FEET (480-209823-9) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Job ID: 480-209823-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Method 6010C: The following sample was diluted due to the presence of Total Iron which interferes with Chromium, Nickel, and Lead: BH6 1-2 FEET (480-209823-6). 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

Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: BH3 1-2 FEET (480-209823-4). The reporting limits (RLs) are elevated proportionately.

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

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH1 0.5-1 FEET

Lab Sample ID: 480-209823-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	93.4	B	0.63	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.74		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	2.8	B	0.25	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	15.3		0.63	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	43.8	B	1.3	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	76.9		1.3	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	234	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	26.5		6.3	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.9	J	5.0	0.50	mg/Kg	1	✱	6010C	Total/NA
Zinc	148	B	2.5	0.80	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.098		0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH3 0.5-1 FEET

Lab Sample ID: 480-209823-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.0	J vs	5.2	0.99	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene	2.2	J vs	5.2	0.33	ug/Kg	1	✱	8260C	Total/NA
2-Butanone (MEK)	4.1	J vs	26	1.9	ug/Kg	1	✱	8260C	Total/NA
Acetone	22	J vs	26	4.3	ug/Kg	1	✱	8260C	Total/NA
Methylene Chloride	5.3	vs	5.2	2.4	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	1.7	J vs	10	0.87	ug/Kg	1	✱	8260C	Total/NA

Client Sample ID: BH3 1-2 FEET

Lab Sample ID: 480-209823-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		2.3	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	196	B	0.58	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.81		0.23	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.44	B	0.23	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	24.5		0.58	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	30.8	B	1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	320		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	470	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	20.8		5.8	0.27	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.1	J	4.7	0.47	mg/Kg	1	✱	6010C	Total/NA
Zinc	140	B	2.3	0.75	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.41		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH4 0.5-3 FEET

Lab Sample ID: 480-209823-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	380000		6500	1800	ug/Kg	50	✱	8260C	Total/NA
1,3,5-Trimethylbenzene	150000		6500	2000	ug/Kg	50	✱	8260C	Total/NA
Xylenes, Total	41000		13000	3600	ug/Kg	50	✱	8260C	Total/NA
Acenaphthene	49	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	180	J	200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	140	J	200	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	160	J	200	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	62	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	85	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	180	J	200	45	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: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH4 0.5-3 FEET (Continued)

Lab Sample ID: 480-209823-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibenzofuran	33	J	200	24	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	340		200	21	ug/Kg	1	✳	8270D	Total/NA
Fluorene	49	J	200	24	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	55	J	200	25	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	130	J	200	30	ug/Kg	1	✳	8270D	Total/NA
Pyrene	290		200	24	ug/Kg	1	✳	8270D	Total/NA
Naphthalene - DL	14000		1000	130	ug/Kg	5	✳	8270D	Total/NA
Arsenic	6.1		2.5	0.49	mg/Kg	1	✳	6010C	Total/NA
Barium	148	B	0.62	0.14	mg/Kg	1	✳	6010C	Total/NA
Beryllium	0.71		0.25	0.035	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.31	B	0.25	0.037	mg/Kg	1	✳	6010C	Total/NA
Chromium	21.1		0.62	0.25	mg/Kg	1	✳	6010C	Total/NA
Copper	28.0	B	1.2	0.26	mg/Kg	1	✳	6010C	Total/NA
Lead	491		1.2	0.30	mg/Kg	1	✳	6010C	Total/NA
Manganese	324	B	0.25	0.039	mg/Kg	1	✳	6010C	Total/NA
Nickel	20.6		6.2	0.28	mg/Kg	1	✳	6010C	Total/NA
Zinc	95.2	B	2.5	0.79	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.67		0.023	0.0052	mg/Kg	1	✳	7471B	Total/NA

Client Sample ID: BH6 1-2 FEET

Lab Sample ID: 480-209823-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	150	J	190	28	ug/Kg	1	✳	8270D	Total/NA
Acenaphthylene	56	J	190	25	ug/Kg	1	✳	8270D	Total/NA
Anthracene	360		190	47	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	740		190	19	ug/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	700		190	28	ug/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	800		190	30	ug/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	460		190	20	ug/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	430		190	25	ug/Kg	1	✳	8270D	Total/NA
Chrysene	830		190	42	ug/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	140	J	190	34	ug/Kg	1	✳	8270D	Total/NA
Dibenzofuran	150	J	190	22	ug/Kg	1	✳	8270D	Total/NA
Fluoranthene	1300		190	20	ug/Kg	1	✳	8270D	Total/NA
Fluorene	150	J	190	22	ug/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	410		190	23	ug/Kg	1	✳	8270D	Total/NA
Naphthalene	170	J	190	25	ug/Kg	1	✳	8270D	Total/NA
Phenanthrene	1400		190	28	ug/Kg	1	✳	8270D	Total/NA
Pyrene	1300		190	22	ug/Kg	1	✳	8270D	Total/NA
Arsenic	18.0		2.4	0.47	mg/Kg	1	✳	6010C	Total/NA
Barium	333	B	0.59	0.13	mg/Kg	1	✳	6010C	Total/NA
Beryllium	1.1		0.24	0.033	mg/Kg	1	✳	6010C	Total/NA
Cadmium	0.23	J B	0.24	0.035	mg/Kg	1	✳	6010C	Total/NA
Chromium	14.8		2.9	1.2	mg/Kg	5	✳	6010C	Total/NA
Copper	40.7	B	1.2	0.25	mg/Kg	1	✳	6010C	Total/NA
Lead	27.0		5.9	1.4	mg/Kg	5	✳	6010C	Total/NA
Manganese	116	B	0.24	0.038	mg/Kg	1	✳	6010C	Total/NA
Nickel	37.7		29.4	1.4	mg/Kg	5	✳	6010C	Total/NA
Selenium	2.1	J	4.7	0.47	mg/Kg	1	✳	6010C	Total/NA
Zinc	14.3	B	2.4	0.75	mg/Kg	1	✳	6010C	Total/NA
Mercury	0.023		0.022	0.0051	mg/Kg	1	✳	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH7 0.5-2 FEET

Lab Sample ID: 480-209823-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	60	J	190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	55	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	64	J	190	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	32	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	31	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Chrysene	62	J	190	42	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	110	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	28	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	88	J	190	27	ug/Kg	1	✱	8270D	Total/NA
Pyrene	100	J	190	22	ug/Kg	1	✱	8270D	Total/NA
Arsenic	3.4		2.3	0.46	mg/Kg	1	✱	6010C	Total/NA
Barium	32.8	B	0.57	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.24		0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.25	B	0.23	0.034	mg/Kg	1	✱	6010C	Total/NA
Chromium	7.0		0.57	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	7.0	B	1.1	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	12.2		1.1	0.27	mg/Kg	1	✱	6010C	Total/NA
Manganese	152	B F1	0.23	0.036	mg/Kg	1	✱	6010C	Total/NA
Nickel	8.3		5.7	0.26	mg/Kg	1	✱	6010C	Total/NA
Zinc	31.6	B	2.3	0.73	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.030		0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH8 2-3 FEET

Lab Sample ID: 480-209823-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	200	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	170	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Anthracene	490	J	1000	250	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	2400		1000	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	2700		1000	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	3200		1000	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1800		1000	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	1600		1000	130	ug/Kg	5	✱	8270D	Total/NA
Chrysene	2900		1000	230	ug/Kg	5	✱	8270D	Total/NA
Dibenz(a,h)anthracene	550	J	1000	180	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	140	J	1000	120	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	5500		1000	110	ug/Kg	5	✱	8270D	Total/NA
Fluorene	200	J	1000	120	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1500		1000	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	3200		1000	150	ug/Kg	5	✱	8270D	Total/NA
Pyrene	4300		1000	120	ug/Kg	5	✱	8270D	Total/NA
Arsenic	7.8		2.6	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	87.4	B	0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.68		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.48	B	0.26	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	17.4		0.64	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	46.2	B	1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	203		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	392	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.4		6.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.74	J	5.1	0.51	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: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH8 2-3 FEET (Continued)

Lab Sample ID: 480-209823-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	206	B	2.6	0.82	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.72		0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH9 1-3 FEET

Lab Sample ID: 480-209823-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	83	J	230	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	91	J	230	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	85	J	230	36	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	42	J	230	24	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	43	J	230	29	ug/Kg	1	✱	8270D	Total/NA
Chrysene	80	J	230	51	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	72	J	230	24	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	38	J	230	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	83	J	230	27	ug/Kg	1	✱	8270D	Total/NA
Arsenic	4.7		2.8	0.57	mg/Kg	1	✱	6010C	Total/NA
Barium	90.5	B	0.71	0.16	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.75		0.28	0.040	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.47	B	0.28	0.042	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.8		0.71	0.28	mg/Kg	1	✱	6010C	Total/NA
Copper	19.2	B	1.4	0.30	mg/Kg	1	✱	6010C	Total/NA
Lead	138		1.4	0.34	mg/Kg	1	✱	6010C	Total/NA
Manganese	309	B	0.28	0.045	mg/Kg	1	✱	6010C	Total/NA
Nickel	15.5		7.1	0.32	mg/Kg	1	✱	6010C	Total/NA
Zinc	215	B	2.8	0.90	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.24		0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH1 0.5-1 FEET

Lab Sample ID: 480-209823-1

Date Collected: 06/13/23 09:15

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	580	U	580	320	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
2-Methylphenol	980	U	980	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
3-Methylphenol	1900	U	1900	150	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
4-Methylphenol	1900	U	1900	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Acenaphthene	980	U	980	140	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Acenaphthylene	980	U	980	130	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Anthracene	980	U	980	240	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Benzo[a]anthracene	980	U	980	98	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Benzo[a]pyrene	980	U	980	140	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Benzo[b]fluoranthene	980	U	980	160	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Benzo[g,h,i]perylene	980	U	980	100	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Benzo[k]fluoranthene	980	U	980	130	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Chrysene	980	U	980	220	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Dibenz(a,h)anthracene	980	U	980	170	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Dibenzofuran	980	U	980	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Fluoranthene	980	U	980	100	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Fluorene	980	U	980	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Hexachlorobenzene	980	U	980	130	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Indeno[1,2,3-cd]pyrene	980	U	980	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Naphthalene	980	U	980	130	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Pentachlorophenol	1900	U	1900	980	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Phenanthrene	980	U	980	140	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Phenol	980	U	980	150	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5
Pyrene	980	U	980	120	ug/Kg	☆	06/15/23 16:01	06/16/23 20:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		54 - 120	06/15/23 16:01	06/16/23 20:42	5
2-Fluorobiphenyl (Surr)	76		60 - 120	06/15/23 16:01	06/16/23 20:42	5
2-Fluorophenol (Surr)	69		52 - 120	06/15/23 16:01	06/16/23 20:42	5
Nitrobenzene-d5 (Surr)	73		53 - 120	06/15/23 16:01	06/16/23 20:42	5
Phenol-d5 (Surr)	73		54 - 120	06/15/23 16:01	06/16/23 20:42	5
p-Terphenyl-d14 (Surr)	83		79 - 130	06/15/23 16:01	06/16/23 20:42	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.2		2.5	0.50	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Barium	93.4	B	0.63	0.14	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Beryllium	0.74		0.25	0.035	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Cadmium	2.8	B	0.25	0.038	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Chromium	15.3		0.63	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Copper	43.8	B	1.3	0.26	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Lead	76.9		1.3	0.30	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Manganese	234	B	0.25	0.040	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Nickel	26.5		6.3	0.29	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Selenium	1.9	J	5.0	0.50	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Silver	0.75	U	0.75	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1
Zinc	148	B	2.5	0.80	mg/Kg	☆	06/16/23 14:42	06/23/23 22:44	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH1 0.5-1 FEET

Lab Sample ID: 480-209823-1

Date Collected: 06/13/23 09:15

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 84.0

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.023	0.0053	mg/Kg	☆	06/20/23 11:08	06/20/23 15:04	1

Client Sample ID: BH3 0.5-1 FEET

Lab Sample ID: 480-209823-3

Date Collected: 06/13/23 09:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.2	U vs	5.2	0.37	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,1-Dichloroethane	5.2	U vs	5.2	0.63	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,1-Dichloroethene	5.2	U vs	5.2	0.63	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,2,4-Trimethylbenzene	5.0	J vs	5.2	0.99	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,2-Dichlorobenzene	5.2	U vs	5.2	0.40	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,2-Dichloroethane	5.2	U vs	5.2	0.26	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,3,5-Trimethylbenzene	2.2	J vs	5.2	0.33	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,3-Dichlorobenzene	5.2	U vs	5.2	0.27	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,4-Dichlorobenzene	5.2	U vs	5.2	0.72	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
1,4-Dioxane	100	U vs	100	22	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
2-Butanone (MEK)	4.1	J vs	26	1.9	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Acetone	22	J vs	26	4.3	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Benzene	5.2	U vs	5.2	0.25	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Carbon tetrachloride	5.2	U vs	5.2	0.50	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Chlorobenzene	5.2	U vs	5.2	0.68	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Chloroform	5.2	U vs	5.2	0.32	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
cis-1,2-Dichloroethene	5.2	U vs	5.2	0.66	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Ethylbenzene	5.2	U vs	5.2	0.36	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Methyl tert-butyl ether	5.2	U vs	5.2	0.51	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Methylene Chloride	5.3	vs	5.2	2.4	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
n-Butylbenzene	5.2	U vs	5.2	0.45	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
N-Propylbenzene	5.2	U vs	5.2	0.41	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
sec-Butylbenzene	5.2	U vs	5.2	0.45	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
tert-Butylbenzene	5.2	U vs	5.2	0.54	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Tetrachloroethene	5.2	U vs	5.2	0.69	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Toluene	5.2	U vs	5.2	0.39	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
trans-1,2-Dichloroethene	5.2	U vs	5.2	0.53	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Trichloroethene	5.2	U vs	5.2	1.1	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Vinyl chloride	5.2	U vs	5.2	0.63	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1
Xylenes, Total	1.7	J vs	10	0.87	ug/Kg	☆	06/15/23 12:21	06/15/23 17:51	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☆		N/A	06/15/23 12:21	06/15/23 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	06/15/23 12:21	06/15/23 17:51	1
4-Bromofluorobenzene (Surr)	98		72 - 126	06/15/23 12:21	06/15/23 17:51	1
Dibromofluoromethane (Surr)	102		60 - 140	06/15/23 12:21	06/15/23 17:51	1
Toluene-d8 (Surr)	99		71 - 125	06/15/23 12:21	06/15/23 17:51	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH3 1-2 FEET

Lab Sample ID: 480-209823-4

Date Collected: 06/13/23 09:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	24000	U	24000	13000	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
2-Methylphenol	40000	U	40000	4700	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
3-Methylphenol	78000	U	78000	6100	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
4-Methylphenol	78000	U	78000	4700	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Acenaphthene	40000	U	40000	5900	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Acenaphthylene	40000	U	40000	5200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Anthracene	40000	U	40000	9900	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Benzo[a]anthracene	40000	U	40000	4000	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Benzo[a]pyrene	40000	U	40000	5900	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Benzo[b]fluoranthene	40000	U	40000	6400	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Benzo[g,h,i]perylene	40000	U	40000	4200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Benzo[k]fluoranthene	40000	U	40000	5200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Chrysene	40000	U	40000	9000	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Dibenz(a,h)anthracene	40000	U	40000	7100	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Dibenzofuran	40000	U	40000	4700	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Fluoranthene	40000	U	40000	4200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Fluorene	40000	U	40000	4700	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Hexachlorobenzene	40000	U	40000	5400	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Indeno[1,2,3-cd]pyrene	40000	U	40000	5000	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Naphthalene	40000	U	40000	5200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Pentachlorophenol	78000	U	78000	40000	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Phenanthrene	40000	U	40000	5900	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Phenol	40000	U	40000	6100	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20
Pyrene	40000	U	40000	4700	ug/Kg	☆	06/15/23 16:01	06/16/23 21:07	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	06/15/23 16:01	06/16/23 21:07	20
2-Fluorobiphenyl (Surr)	75		60 - 120	06/15/23 16:01	06/16/23 21:07	20
2-Fluorophenol (Surr)	0	S1-	52 - 120	06/15/23 16:01	06/16/23 21:07	20
Nitrobenzene-d5 (Surr)	70		53 - 120	06/15/23 16:01	06/16/23 21:07	20
Phenol-d5 (Surr)	0	S1-	54 - 120	06/15/23 16:01	06/16/23 21:07	20
p-Terphenyl-d14 (Surr)	79		79 - 130	06/15/23 16:01	06/16/23 21:07	20

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		2.3	0.47	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Barium	196	B	0.58	0.13	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Beryllium	0.81		0.23	0.033	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Cadmium	0.44	B	0.23	0.035	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Chromium	24.5		0.58	0.23	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Copper	30.8	B	1.2	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Lead	320		1.2	0.28	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Manganese	470	B	0.23	0.037	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Nickel	20.8		5.8	0.27	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Selenium	1.1	J	4.7	0.47	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Silver	0.70	U	0.70	0.23	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1
Zinc	140	B	2.3	0.75	mg/Kg	☆	06/16/23 14:42	06/23/23 22:48	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH3 1-2 FEET

Lab Sample ID: 480-209823-4

Date Collected: 06/13/23 09:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 82.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.41		0.022	0.0051	mg/Kg	☆	06/20/23 11:08	06/20/23 15:12	1

Client Sample ID: BH4 0.5-3 FEET

Lab Sample ID: 480-209823-5

Date Collected: 06/13/23 10:15

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6500	U	6500	1800	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,1-Dichloroethane	6500	U	6500	2000	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,1-Dichloroethene	6500	U	6500	2300	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,2,4-Trimethylbenzene	380000		6500	1800	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,2-Dichlorobenzene	6500	U	6500	1700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,2-Dichloroethane	6500	U	6500	2700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,3,5-Trimethylbenzene	150000		6500	2000	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,3-Dichlorobenzene	6500	U	6500	1700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,4-Dichlorobenzene	6500	U	6500	910	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
1,4-Dioxane	120000	U *	120000	33000	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
2-Butanone (MEK)	33000	U	33000	19000	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Acetone	33000	U	33000	27000	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Benzene	6500	U	6500	1200	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Carbon tetrachloride	6500	U	6500	1700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Chlorobenzene	6500	U	6500	860	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Chloroform	6500	U	6500	4500	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
cis-1,2-Dichloroethene	6500	U	6500	1800	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Ethylbenzene	6500	U	6500	1900	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Methyl tert-butyl ether	6500	U	6500	2500	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Methylene Chloride	6500	U	6500	1300	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
n-Butylbenzene	6500	U	6500	1900	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
N-Propylbenzene	6500	U	6500	1700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
sec-Butylbenzene	6500	U *	6500	2400	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Tetrachloroethene	6500	U	6500	880	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Toluene	6500	U	6500	1700	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
trans-1,2-Dichloroethene	6500	U	6500	1500	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Trichloroethene	6500	U	6500	1800	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Vinyl chloride	6500	U	6500	2200	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
Xylenes, Total	41000		13000	3600	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50
tert-Butylbenzene	6500	U	6500	1800	ug/Kg	☆	06/15/23 11:31	06/15/23 20:29	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1-ethyl-2-methyl-	170000	T J N	ug/Kg	☆	9.31	611-14-3	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1-ethyl-3-methyl-	140000	T J N	ug/Kg	☆	9.61	620-14-4	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1-methyl-3-propyl-	200000	T J N	ug/Kg	☆	10.43	1074-43-7	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1-ethyl-1,4-dimethyl-	210000	T J N	ug/Kg	☆	10.49	1758-88-9	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1-methyl-4-(1-methylethyl)-	280000	T J N	ug/Kg	☆	10.77	99-87-6	06/15/23 11:31	06/15/23 20:29	50
Benzene, 4-ethyl-1,2-dimethyl-	200000	T J N	ug/Kg	☆	10.85	934-80-5	06/15/23 11:31	06/15/23 20:29	50
Benzene, 2-ethyl-1,3-dimethyl-	130000	T J N	ug/Kg	☆	11.12	2870-04-4	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1,2,3,4-tetramethyl-	180000	T J N	ug/Kg	☆	11.21	488-23-3	06/15/23 11:31	06/15/23 20:29	50
Benzene, 1,2,4,5-tetramethyl-	220000	T J N	ug/Kg	☆	11.26	95-93-2	06/15/23 11:31	06/15/23 20:29	50
2,4-Dimethylstyrene	270000	T J N	ug/Kg	☆	11.63	2234-20-0	06/15/23 11:31	06/15/23 20:29	50

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH4 0.5-3 FEET

Lab Sample ID: 480-209823-5

Date Collected: 06/13/23 10:15

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 81.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		53 - 146	06/15/23 11:31	06/15/23 20:29	50
4-Bromofluorobenzene (Surr)	91		49 - 148	06/15/23 11:31	06/15/23 20:29	50
Toluene-d8 (Surr)	88		50 - 149	06/15/23 11:31	06/15/23 20:29	50
Dibromofluoromethane (Surr)	100		60 - 140	06/15/23 11:31	06/15/23 20:29	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	U	120	66	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
2-Methylphenol	200	U	200	24	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
3-Methylphenol	390	U	390	31	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
4-Methylphenol	390	U	390	24	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Acenaphthene	49	J	200	30	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Acenaphthylene	200	U	200	26	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Anthracene	200	U	200	50	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Benzo[a]anthracene	180	J	200	20	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Benzo[a]pyrene	140	J	200	30	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Benzo[b]fluoranthene	160	J	200	32	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Benzo[g,h,i]perylene	62	J	200	21	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Benzo[k]fluoranthene	85	J	200	26	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Chrysene	180	J	200	45	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Dibenz(a,h)anthracene	200	U	200	36	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Dibenzofuran	33	J	200	24	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Fluoranthene	340		200	21	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Fluorene	49	J	200	24	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Indeno[1,2,3-cd]pyrene	55	J	200	25	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Pentachlorophenol	390	U	390	200	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Phenanthrene	130	J	200	30	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Phenol	200	U	200	31	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1
Pyrene	290		200	24	ug/Kg	☆	06/15/23 16:01	06/16/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	06/15/23 16:01	06/16/23 21:31	1
2-Fluorobiphenyl (Surr)	74		60 - 120	06/15/23 16:01	06/16/23 21:31	1
2-Fluorophenol (Surr)	70		52 - 120	06/15/23 16:01	06/16/23 21:31	1
Nitrobenzene-d5 (Surr)	127	S1+	53 - 120	06/15/23 16:01	06/16/23 21:31	1
Phenol-d5 (Surr)	73		54 - 120	06/15/23 16:01	06/16/23 21:31	1
p-Terphenyl-d14 (Surr)	81		79 - 130	06/15/23 16:01	06/16/23 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	14000		1000	130	ug/Kg	☆	06/15/23 16:01	06/19/23 17:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		54 - 120	06/15/23 16:01	06/19/23 17:39	5
2-Fluorobiphenyl (Surr)	74		60 - 120	06/15/23 16:01	06/19/23 17:39	5
2-Fluorophenol (Surr)	67		52 - 120	06/15/23 16:01	06/19/23 17:39	5
Nitrobenzene-d5 (Surr)	130	S1+	53 - 120	06/15/23 16:01	06/19/23 17:39	5
Phenol-d5 (Surr)	77		54 - 120	06/15/23 16:01	06/19/23 17:39	5
p-Terphenyl-d14 (Surr)	73	S1-	79 - 130	06/15/23 16:01	06/19/23 17:39	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH4 0.5-3 FEET

Lab Sample ID: 480-209823-5

Date Collected: 06/13/23 10:15

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 81.6

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		2.5	0.49	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Barium	148	B	0.62	0.14	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Beryllium	0.71		0.25	0.035	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Cadmium	0.31	B	0.25	0.037	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Chromium	21.1		0.62	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Copper	28.0	B	1.2	0.26	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Lead	491		1.2	0.30	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Manganese	324	B	0.25	0.039	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Nickel	20.6		6.2	0.28	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Selenium	4.9	U	4.9	0.49	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Silver	0.74	U	0.74	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1
Zinc	95.2	B	2.5	0.79	mg/Kg	☆	06/16/23 14:42	06/23/23 22:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.023	0.0052	mg/Kg	☆	06/20/23 11:08	06/20/23 15:13	1

Client Sample ID: BH6 1-2 FEET

Lab Sample ID: 480-209823-6

Date Collected: 06/13/23 11:10

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 89.1

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	61	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
2-Methylphenol	190	U	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
3-Methylphenol	370	U	370	29	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
4-Methylphenol	370	U	370	22	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Acenaphthene	150	J	190	28	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Acenaphthylene	56	J	190	25	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Anthracene	360		190	47	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Benzo[a]anthracene	740		190	19	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Benzo[a]pyrene	700		190	28	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Benzo[b]fluoranthene	800		190	30	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Benzo[g,h,i]perylene	460		190	20	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Benzo[k]fluoranthene	430		190	25	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Chrysene	830		190	42	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Dibenz(a,h)anthracene	140	J	190	34	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Dibenzofuran	150	J	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Fluoranthene	1300		190	20	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Fluorene	150	J	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Indeno[1,2,3-cd]pyrene	410		190	23	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Naphthalene	170	J	190	25	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Pentachlorophenol	370	U	370	190	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Phenanthrene	1400		190	28	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Phenol	190	U	190	29	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1
Pyrene	1300		190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		54 - 120	06/15/23 16:01	06/16/23 21:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH6 1-2 FEET

Lab Sample ID: 480-209823-6

Date Collected: 06/13/23 11:10

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 89.1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		60 - 120	06/15/23 16:01	06/16/23 21:55	1
2-Fluorophenol (Surr)	64		52 - 120	06/15/23 16:01	06/16/23 21:55	1
Nitrobenzene-d5 (Surr)	71		53 - 120	06/15/23 16:01	06/16/23 21:55	1
Phenol-d5 (Surr)	63		54 - 120	06/15/23 16:01	06/16/23 21:55	1
p-Terphenyl-d14 (Surr)	89		79 - 130	06/15/23 16:01	06/16/23 21:55	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18.0		2.4	0.47	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Barium	333	B	0.59	0.13	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Beryllium	1.1		0.24	0.033	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Cadmium	0.23	J B	0.24	0.035	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Chromium	14.8		2.9	1.2	mg/Kg	☆	06/16/23 14:42	06/27/23 15:27	5
Copper	40.7	B	1.2	0.25	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Lead	27.0		5.9	1.4	mg/Kg	☆	06/16/23 14:42	06/27/23 15:27	5
Manganese	116	B	0.24	0.038	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Nickel	37.7		29.4	1.4	mg/Kg	☆	06/16/23 14:42	06/27/23 15:27	5
Selenium	2.1	J	4.7	0.47	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1
Zinc	14.3	B	2.4	0.75	mg/Kg	☆	06/16/23 14:42	06/23/23 22:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.022	0.0051	mg/Kg	☆	06/20/23 11:08	06/20/23 15:14	1

Client Sample ID: BH7 0.5-2 FEET

Lab Sample ID: 480-209823-7

Date Collected: 06/13/23 11:20

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 90.1

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	☆	06/15/23 16:01	06/16/23 22:19	1
2-Methylphenol	190	U	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
3-Methylphenol	360	U	360	28	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
4-Methylphenol	360	U	360	22	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Acenaphthene	190	U	190	27	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Acenaphthylene	190	U	190	24	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Anthracene	190	U	190	46	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Benzo[a]anthracene	60	J	190	19	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Benzo[a]pyrene	55	J	190	27	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Benzo[b]fluoranthene	64	J	190	30	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Benzo[g,h,i]perylene	32	J	190	20	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Benzo[k]fluoranthene	31	J	190	24	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Chrysene	62	J	190	42	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Dibenz(a,h)anthracene	190	U	190	33	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Dibenzofuran	190	U	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Fluoranthene	110	J	190	20	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Fluorene	190	U	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Hexachlorobenzene	190	U	190	25	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Indeno[1,2,3-cd]pyrene	28	J	190	23	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH7 0.5-2 FEET

Lab Sample ID: 480-209823-7

Date Collected: 06/13/23 11:20

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	190	U	190	24	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Pentachlorophenol	360	U	360	190	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Phenanthrene	88	J	190	27	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Phenol	190	U	190	28	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1
Pyrene	100	J	190	22	ug/Kg	☆	06/15/23 16:01	06/16/23 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		54 - 120	06/15/23 16:01	06/16/23 22:19	1
2-Fluorobiphenyl (Surr)	74		60 - 120	06/15/23 16:01	06/16/23 22:19	1
2-Fluorophenol (Surr)	65		52 - 120	06/15/23 16:01	06/16/23 22:19	1
Nitrobenzene-d5 (Surr)	71		53 - 120	06/15/23 16:01	06/16/23 22:19	1
Phenol-d5 (Surr)	64		54 - 120	06/15/23 16:01	06/16/23 22:19	1
p-Terphenyl-d14 (Surr)	89		79 - 130	06/15/23 16:01	06/16/23 22:19	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		2.3	0.46	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Barium	32.8	B	0.57	0.13	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Beryllium	0.24		0.23	0.032	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Cadmium	0.25	B	0.23	0.034	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Chromium	7.0		0.57	0.23	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Copper	7.0	B	1.1	0.24	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Lead	12.2		1.1	0.27	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Manganese	152	B F1	0.23	0.036	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Nickel	8.3		5.7	0.26	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Silver	0.68	U	0.68	0.23	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1
Zinc	31.6	B	2.3	0.73	mg/Kg	☆	06/16/23 14:42	06/23/23 23:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.021	0.0049	mg/Kg	☆	06/20/23 11:08	06/20/23 15:16	1

Client Sample ID: BH8 2-3 FEET

Lab Sample ID: 480-209823-8

Date Collected: 06/13/23 11:40

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	600	U	600	330	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
3-Methylphenol	2000	U	2000	160	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Acenaphthene	200	J	1000	150	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Acenaphthylene	170	J	1000	130	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Anthracene	490	J	1000	250	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Benzo[a]anthracene	2400		1000	100	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Benzo[a]pyrene	2700		1000	150	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Benzo[b]fluoranthene	3200		1000	160	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Benzo[g,h,i]perylene	1800		1000	110	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Benzo[k]fluoranthene	1600		1000	130	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH8 2-3 FEET

Lab Sample ID: 480-209823-8

Date Collected: 06/13/23 11:40

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	2900		1000	230	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Dibenz(a,h)anthracene	550	J	1000	180	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Dibenzofuran	140	J	1000	120	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Fluoranthene	5500		1000	110	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Fluorene	200	J	1000	120	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Indeno[1,2,3-cd]pyrene	1500		1000	130	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Naphthalene	1000	U	1000	130	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Phenanthrene	3200		1000	150	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Phenol	1000	U	1000	160	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5
Pyrene	4300		1000	120	ug/Kg	☆	06/15/23 16:01	06/16/23 22:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		54 - 120	06/15/23 16:01	06/16/23 22:43	5
2-Fluorobiphenyl (Surr)	71		60 - 120	06/15/23 16:01	06/16/23 22:43	5
2-Fluorophenol (Surr)	65		52 - 120	06/15/23 16:01	06/16/23 22:43	5
Nitrobenzene-d5 (Surr)	66		53 - 120	06/15/23 16:01	06/16/23 22:43	5
Phenol-d5 (Surr)	66		54 - 120	06/15/23 16:01	06/16/23 22:43	5
p-Terphenyl-d14 (Surr)	77	S1-	79 - 130	06/15/23 16:01	06/16/23 22:43	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		2.6	0.51	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Barium	87.4	B	0.64	0.14	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Beryllium	0.68		0.26	0.036	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Cadmium	0.48	B	0.26	0.038	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Chromium	17.4		0.64	0.26	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Copper	46.2	B	1.3	0.27	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Lead	203		1.3	0.31	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Manganese	392	B	0.26	0.041	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Nickel	17.4		6.4	0.29	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Selenium	0.74	J	5.1	0.51	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Silver	0.77	U	0.77	0.26	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1
Zinc	206	B	2.6	0.82	mg/Kg	☆	06/16/23 14:42	06/23/23 23:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.72		0.023	0.0053	mg/Kg	☆	06/20/23 11:08	06/20/23 15:17	1

Client Sample ID: BH9 1-3 FEET

Lab Sample ID: 480-209823-9

Date Collected: 06/13/23 11:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130	U	130	74	ug/Kg	☆	06/15/23 16:01	06/16/23 23:07	1
2-Methylphenol	230	U	230	27	ug/Kg	☆	06/15/23 16:01	06/16/23 23:07	1
3-Methylphenol	440	U	440	35	ug/Kg	☆	06/15/23 16:01	06/16/23 23:07	1
4-Methylphenol	440	U	440	27	ug/Kg	☆	06/15/23 16:01	06/16/23 23:07	1
Acenaphthene	230	U	230	33	ug/Kg	☆	06/15/23 16:01	06/16/23 23:07	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH9 1-3 FEET

Lab Sample ID: 480-209823-9

Date Collected: 06/13/23 11:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	230	U	230	29	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Anthracene	230	U	230	56	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Benzo[a]anthracene	83	J	230	23	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Benzo[a]pyrene	91	J	230	33	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Benzo[b]fluoranthene	85	J	230	36	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Benzo[g,h,i]perylene	42	J	230	24	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Benzo[k]fluoranthene	43	J	230	29	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Chrysene	80	J	230	51	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Dibenz(a,h)anthracene	230	U	230	40	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Dibenzofuran	230	U	230	27	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Fluoranthene	72	J	230	24	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Fluorene	230	U	230	27	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Hexachlorobenzene	230	U	230	31	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Indeno[1,2,3-cd]pyrene	38	J	230	28	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Naphthalene	230	U	230	29	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Pentachlorophenol	440	U	440	230	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Phenanthrene	230	U	230	33	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Phenol	230	U	230	35	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1
Pyrene	83	J	230	27	ug/Kg	✱	06/15/23 16:01	06/16/23 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		54 - 120	06/15/23 16:01	06/16/23 23:07	1
2-Fluorobiphenyl (Surr)	79		60 - 120	06/15/23 16:01	06/16/23 23:07	1
2-Fluorophenol (Surr)	67		52 - 120	06/15/23 16:01	06/16/23 23:07	1
Nitrobenzene-d5 (Surr)	72		53 - 120	06/15/23 16:01	06/16/23 23:07	1
Phenol-d5 (Surr)	67		54 - 120	06/15/23 16:01	06/16/23 23:07	1
p-Terphenyl-d14 (Surr)	87		79 - 130	06/15/23 16:01	06/16/23 23:07	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		2.8	0.57	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Barium	90.5	B	0.71	0.16	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Beryllium	0.75		0.28	0.040	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Cadmium	0.47	B	0.28	0.042	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Chromium	20.8		0.71	0.28	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Copper	19.2	B	1.4	0.30	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Lead	138		1.4	0.34	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Manganese	309	B	0.28	0.045	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Nickel	15.5		7.1	0.32	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Selenium	5.7	U	5.7	0.57	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Silver	0.85	U	0.85	0.28	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1
Zinc	215	B	2.8	0.90	mg/Kg	✱	06/16/23 14:42	06/23/23 23:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.026	0.0060	mg/Kg	✱	06/20/23 11:08	06/20/23 15:18	1

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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)
480-209823-3	BH3 0.5-1 FEET	104	98	102	99
LCS 480-673225/1-A	Lab Control Sample	99	103	100	98
MB 480-673225/2-A	Method Blank	98	103	100	96

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: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (53-146)	BFB (49-148)	DBFM (60-140)	TOL (50-149)
480-209823-5	BH4 0.5-3 FEET	105	91	100	88
LCS 480-673212/1-A	Lab Control Sample	102	88	93	101
MB 480-673212/3-A	Method Blank	98	86	93	94

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)
480-209823-1	BH1 0.5-1 FEET	78	76	69	73	73	83
480-209823-4	BH3 1-2 FEET	0 S1-	75	0 S1-	70	0 S1-	79
480-209823-5	BH4 0.5-3 FEET	85	74	70	127 S1+	73	81
480-209823-5 - DL	BH4 0.5-3 FEET	63	74	67	130 S1+	77	73 S1-
480-209823-6	BH6 1-2 FEET	79	77	64	71	63	89
480-209823-7	BH7 0.5-2 FEET	78	74	65	71	64	89
480-209823-8	BH8 2-3 FEET	61	71	65	66	66	77 S1-
480-209823-9	BH9 1-3 FEET	81	79	67	72	67	87
LCS 480-673262/2-A	Lab Control Sample	87	74	64	68	68	86
MB 480-673262/1-A	Method Blank	74	72	64	67	65	82

Surrogate Legend

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

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: MB 480-673212/3-A

Matrix: Solid

Analysis Batch: 673159

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	28	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,1-Dichloroethane	100	U	100	31	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,1-Dichloroethene	100	U	100	35	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,2,4-Trimethylbenzene	100	U	100	28	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,2-Dichlorobenzene	100	U	100	26	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,2-Dichloroethane	100	U	100	41	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,3,5-Trimethylbenzene	100	U	100	30	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,3-Dichlorobenzene	100	U	100	27	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
1,4-Dioxane	1900	U	1900	510	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
2-Butanone (MEK)	500	U	500	300	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Acetone	500	U	500	410	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Benzene	100	U	100	19	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Carbon tetrachloride	100	U	100	26	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Chlorobenzene	100	U	100	13	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Chloroform	100	U	100	69	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
cis-1,2-Dichloroethene	100	U	100	28	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Ethylbenzene	100	U	100	29	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Methyl tert-butyl ether	100	U	100	38	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Methylene Chloride	100	U	100	20	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
n-Butylbenzene	100	U	100	29	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
N-Propylbenzene	100	U	100	26	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
sec-Butylbenzene	100	U	100	37	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Tetrachloroethene	100	U	100	13	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Toluene	100	U	100	27	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
trans-1,2-Dichloroethene	100	U	100	24	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
tert-Butylbenzene	100	U	100	28	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Trichloroethene	100	U	100	28	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Vinyl chloride	100	U	100	34	ug/Kg		06/15/23 11:31	06/15/23 16:37	1
Xylenes, Total	200	U	200	55	ug/Kg		06/15/23 11:31	06/15/23 16:37	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	06/15/23 11:31	06/15/23 16:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		53 - 146	06/15/23 11:31	06/15/23 16:37	1
4-Bromofluorobenzene (Surr)	86		49 - 148	06/15/23 11:31	06/15/23 16:37	1
Toluene-d8 (Surr)	94		50 - 149	06/15/23 11:31	06/15/23 16:37	1
Dibromofluoromethane (Surr)	93		60 - 140	06/15/23 11:31	06/15/23 16:37	1

Lab Sample ID: LCS 480-673212/1-A

Matrix: Solid

Analysis Batch: 673159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	2500	2480		ug/Kg		99	68 - 130
1,1-Dichloroethane	2500	2580		ug/Kg		103	78 - 121
1,1-Dichloroethene	2500	2320		ug/Kg		93	48 - 133

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: LCS 480-673212/1-A

Matrix: Solid

Analysis Batch: 673159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	2500	3120		ug/Kg		125	77 - 127
1,2-Dichlorobenzene	2500	2790		ug/Kg		112	78 - 125
1,2-Dichloroethane	2500	2470		ug/Kg		99	74 - 127
1,3,5-Trimethylbenzene	2500	2960		ug/Kg		118	79 - 120
1,3-Dichlorobenzene	2500	2900		ug/Kg		116	80 - 120
1,4-Dichlorobenzene	2500	2770		ug/Kg		111	80 - 120
1,4-Dioxane	50000	90600	*+	ug/Kg		181	40 - 150
2-Butanone (MEK)	12500	11700		ug/Kg		94	54 - 149
Acetone	12500	14300		ug/Kg		114	47 - 141
Benzene	2500	2570		ug/Kg		103	77 - 125
Carbon tetrachloride	2500	2250		ug/Kg		90	54 - 135
Chlorobenzene	2500	2580		ug/Kg		103	76 - 126
Chloroform	2500	2500		ug/Kg		100	78 - 120
cis-1,2-Dichloroethene	2500	2400		ug/Kg		96	79 - 124
Ethylbenzene	2500	2700		ug/Kg		108	78 - 124
Methyl tert-butyl ether	2500	2360		ug/Kg		95	67 - 137
Methylene Chloride	2500	2470		ug/Kg		99	75 - 118
n-Butylbenzene	2500	2890		ug/Kg		116	80 - 120
N-Propylbenzene	2500	2950		ug/Kg		118	76 - 120
sec-Butylbenzene	2500	3100	*+	ug/Kg		124	79 - 120
Tetrachloroethene	2500	2500		ug/Kg		100	73 - 133
Toluene	2500	2580		ug/Kg		103	75 - 124
trans-1,2-Dichloroethene	2500	2390		ug/Kg		96	74 - 129
tert-Butylbenzene	2500	2810		ug/Kg		112	78 - 120
Trichloroethene	2500	2460		ug/Kg		98	75 - 131
Vinyl chloride	2500	2420		ug/Kg		97	59 - 124
Xylenes, Total	5000	5590		ug/Kg		112	78 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		53 - 146
4-Bromofluorobenzene (Surr)	88		49 - 148
Toluene-d8 (Surr)	101		50 - 149
Dibromofluoromethane (Surr)	93		60 - 140

Lab Sample ID: MB 480-673225/2-A

Matrix: Solid

Analysis Batch: 673200

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673225

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		06/15/23 12:21	06/15/23 14:47	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,2,4-Trimethylbenzene	5.0	U	5.0	0.96	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,3,5-Trimethylbenzene	5.0	U	5.0	0.32	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		06/15/23 12:21	06/15/23 14:47	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: MB 480-673225/2-A

Matrix: Solid

Analysis Batch: 673200

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	100	U	100	22	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Acetone	25	U	25	4.2	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Benzene	5.0	U	5.0	0.25	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
n-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
N-Propylbenzene	5.0	U	5.0	0.40	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
sec-Butylbenzene	5.0	U	5.0	0.44	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Toluene	5.0	U	5.0	0.38	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
tert-Butylbenzene	5.0	U	5.0	0.52	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		06/15/23 12:21	06/15/23 14:47	1
Xylenes, Total	10	U	10	0.84	ug/Kg		06/15/23 12:21	06/15/23 14:47	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg			N/A	06/15/23 12:21	06/15/23 14:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 126	06/15/23 12:21	06/15/23 14:47	1
4-Bromofluorobenzene (Surr)	103		72 - 126	06/15/23 12:21	06/15/23 14:47	1
Toluene-d8 (Surr)	96		71 - 125	06/15/23 12:21	06/15/23 14:47	1
Dibromofluoromethane (Surr)	100		60 - 140	06/15/23 12:21	06/15/23 14:47	1

Lab Sample ID: LCS 480-673225/1-A

Matrix: Solid

Analysis Batch: 673200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	51.4		ug/Kg		103	77 - 121
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	73 - 126
1,1-Dichloroethene	50.0	52.6		ug/Kg		105	59 - 125
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	74 - 120
1,2-Dichlorobenzene	50.0	48.1		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	77 - 122
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	74 - 120
1,3-Dichlorobenzene	50.0	49.0		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.3		ug/Kg		97	73 - 120
1,4-Dioxane	1000	1130		ug/Kg		113	64 - 124
2-Butanone (MEK)	250	266		ug/Kg		107	70 - 134
Acetone	250	259		ug/Kg		103	61 - 137

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: LCS 480-673225/1-A

Matrix: Solid

Analysis Batch: 673200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	52.1		ug/Kg		104	79 - 127
Carbon tetrachloride	50.0	53.0		ug/Kg		106	75 - 135
Chlorobenzene	50.0	49.3		ug/Kg		99	76 - 124
Chloroform	50.0	50.9		ug/Kg		102	80 - 120
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	81 - 120
Ethylbenzene	50.0	50.2		ug/Kg		100	80 - 120
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	63 - 125
Methylene Chloride	50.0	49.7		ug/Kg		99	61 - 127
n-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 120
N-Propylbenzene	50.0	51.0		ug/Kg		102	70 - 130
sec-Butylbenzene	50.0	50.6		ug/Kg		101	74 - 120
Tetrachloroethene	50.0	51.8		ug/Kg		104	74 - 122
Toluene	50.0	49.4		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	78 - 126
tert-Butylbenzene	50.0	50.6		ug/Kg		101	73 - 120
Trichloroethene	50.0	52.7		ug/Kg		105	77 - 129
Vinyl chloride	50.0	53.6		ug/Kg		107	61 - 133
Xylenes, Total	100	99.7		ug/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		64 - 126
4-Bromofluorobenzene (Surr)	103		72 - 126
Toluene-d8 (Surr)	98		71 - 125
Dibromofluoromethane (Surr)	100		60 - 140

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

Lab Sample ID: MB 480-673262/1-A

Matrix: Solid

Analysis Batch: 673327

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
2-Methylphenol	170	U	170	20	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
3-Methylphenol	330	U	330	26	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
4-Methylphenol	330	U	330	20	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Acenaphthene	170	U	170	25	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Acenaphthylene	170	U	170	22	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Anthracene	170	U	170	42	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Chrysene	170	U	170	38	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Dibenzofuran	170	U	170	20	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Fluoranthene	170	U	170	18	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Fluorene	170	U	170	20	ug/Kg		06/15/23 16:01	06/16/23 17:52	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: MB 480-673262/1-A

Matrix: Solid

Analysis Batch: 673327

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	170	U	170	23	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Naphthalene	170	U	170	22	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Pentachlorophenol	330	U	330	170	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Phenanthrene	170	U	170	25	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Phenol	170	U	170	26	ug/Kg		06/15/23 16:01	06/16/23 17:52	1
Pyrene	170	U	170	20	ug/Kg		06/15/23 16:01	06/16/23 17:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		54 - 120	06/15/23 16:01	06/16/23 17:52	1
2-Fluorobiphenyl (Surr)	72		60 - 120	06/15/23 16:01	06/16/23 17:52	1
2-Fluorophenol (Surr)	64		52 - 120	06/15/23 16:01	06/16/23 17:52	1
Nitrobenzene-d5 (Surr)	67		53 - 120	06/15/23 16:01	06/16/23 17:52	1
Phenol-d5 (Surr)	65		54 - 120	06/15/23 16:01	06/16/23 17:52	1
p-Terphenyl-d14 (Surr)	82		79 - 130	06/15/23 16:01	06/16/23 17:52	1

Lab Sample ID: LCS 480-673262/2-A

Matrix: Solid

Analysis Batch: 673327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1620	637		ug/Kg		39	23 - 120
2-Methylphenol	1620	1230		ug/Kg		76	54 - 120
3-Methylphenol	1620	1290		ug/Kg		79	55 - 120
4-Methylphenol	1620	1290		ug/Kg		80	55 - 120
Acenaphthene	1620	1390		ug/Kg		86	62 - 120
Acenaphthylene	1620	1460		ug/Kg		90	58 - 121
Anthracene	1620	1450		ug/Kg		89	62 - 120
Benzo[a]anthracene	1620	1460		ug/Kg		90	65 - 120
Benzo[a]pyrene	1620	1490		ug/Kg		92	64 - 120
Benzo[b]fluoranthene	1620	1490		ug/Kg		92	64 - 120
Benzo[g,h,i]perylene	1620	1460		ug/Kg		90	45 - 145
Benzo[k]fluoranthene	1620	1530		ug/Kg		94	65 - 120
Chrysene	1620	1430		ug/Kg		88	64 - 120
Dibenz(a,h)anthracene	1620	1520		ug/Kg		94	54 - 132
Dibenzofuran	1620	1420		ug/Kg		88	63 - 120
Fluoranthene	1620	1570		ug/Kg		97	62 - 120
Fluorene	1620	1450		ug/Kg		89	63 - 120
Hexachlorobenzene	1620	1550		ug/Kg		95	60 - 120
Indeno[1,2,3-cd]pyrene	1620	1480		ug/Kg		91	56 - 134
Naphthalene	1620	1210		ug/Kg		75	55 - 120
Pentachlorophenol	3250	2900		ug/Kg		89	51 - 120
Phenanthrene	1620	1460		ug/Kg		90	60 - 120
Phenol	1620	1230		ug/Kg		76	53 - 120
Pyrene	1620	1520		ug/Kg		94	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		54 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: LCS 480-673262/2-A

Matrix: Solid

Analysis Batch: 673327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673262

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	74		60 - 120
2-Fluorophenol (Surr)	64		52 - 120
Nitrobenzene-d5 (Surr)	68		53 - 120
Phenol-d5 (Surr)	68		54 - 120
p-Terphenyl-d14 (Surr)	86		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-673359/1-A

Matrix: Solid

Analysis Batch: 674359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 673359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.41	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Barium	0.199	J	0.51	0.11	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Beryllium	0.20	U	0.20	0.028	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Cadmium	0.0396	J	0.20	0.030	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Chromium	0.51	U	0.51	0.20	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Copper	0.216	J	1.0	0.21	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Lead	1.0	U	1.0	0.24	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Manganese	0.373		0.20	0.032	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Nickel	5.1	U	5.1	0.23	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Selenium	4.1	U	4.1	0.41	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Silver	0.61	U	0.61	0.20	mg/Kg		06/16/23 14:42	06/23/23 22:01	1
Zinc	0.760	J	2.0	0.65	mg/Kg		06/16/23 14:42	06/23/23 22:01	1

Lab Sample ID: LCSSRM 480-673359/2-A

Matrix: Solid

Analysis Batch: 674359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673359

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	183	168.6		mg/Kg		92.1	69.9 - 130.1
Barium	297	280.7		mg/Kg		94.5	75.1 - 125.3
Beryllium	78.8	73.95		mg/Kg		93.8	75.0 - 124.9
Cadmium	221	206.3		mg/Kg		93.4	75.1 - 124.9
Chromium	200	185.3		mg/Kg		92.6	70.0 - 130.0
Copper	136	124.9		mg/Kg		91.8	75.0 - 125.0
Lead	257	291.7		mg/Kg		113.5	73.9 - 126.1
Manganese	381	358.8		mg/Kg		94.2	75.9 - 124.1
Nickel	169	183.3		mg/Kg		108.5	69.8 - 129.6
Selenium	217	195.2		mg/Kg		89.9	69.1 - 131.3

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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

Lab Sample ID: LCSSRM 480-673359/2-A
Matrix: Solid
Analysis Batch: 674359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 673359

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	67.8	61.06		mg/Kg		90.1	70.6 - 129.2
Zinc	224	200.8		mg/Kg		89.6	70.1 - 130.4

Lab Sample ID: 480-209823-7 MS
Matrix: Solid
Analysis Batch: 674359

Client Sample ID: BH7 0.5-2 FEET
Prep Type: Total/NA
Prep Batch: 673359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.4		44.6	46.34		mg/Kg	✱	96	75 - 125
Barium	32.8	B	4.46	110.4	4	mg/Kg	✱	1740	75 - 125
Beryllium	0.24		44.6	45.86		mg/Kg	✱	102	75 - 125
Cadmium	0.25	B	44.6	44.87		mg/Kg	✱	100	75 - 125
Chromium	7.0		44.7	50.32		mg/Kg	✱	97	75 - 125
Copper	7.0	B	44.6	51.05		mg/Kg	✱	99	75 - 125
Lead	12.2		44.6	64.74		mg/Kg	✱	118	75 - 125
Manganese	152	B F1	44.6	224.7	F1	mg/Kg	✱	164	75 - 125
Nickel	8.3		44.6	54.66		mg/Kg	✱	104	75 - 125
Selenium	4.6	U	44.6	42.37		mg/Kg	✱	95	75 - 125
Silver	0.68	U	11.2	10.29		mg/Kg	✱	92	75 - 125
Zinc	31.6	B	44.6	79.27		mg/Kg	✱	107	75 - 125

Lab Sample ID: 480-209823-7 MSD
Matrix: Solid
Analysis Batch: 674359

Client Sample ID: BH7 0.5-2 FEET
Prep Type: Total/NA
Prep Batch: 673359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Arsenic	3.4		45.5	47.84		mg/Kg	✱	98	75 - 125	3	20
Barium	32.8	B	4.55	96.15	4	mg/Kg	✱	1392	75 - 125	14	20
Beryllium	0.24		45.5	47.43		mg/Kg	✱	104	75 - 125	3	20
Cadmium	0.25	B	45.5	45.98		mg/Kg	✱	100	75 - 125	2	20
Chromium	7.0		45.6	50.21		mg/Kg	✱	95	75 - 125	0	20
Copper	7.0	B	45.5	50.98		mg/Kg	✱	97	75 - 125	0	20
Lead	12.2		45.5	59.74		mg/Kg	✱	104	75 - 125	8	20
Manganese	152	B F1	45.5	224.6	F1	mg/Kg	✱	160	75 - 125	0	20
Nickel	8.3		45.5	55.78		mg/Kg	✱	104	75 - 125	2	20
Selenium	4.6	U	45.5	44.53		mg/Kg	✱	98	75 - 125	5	20
Silver	0.68	U	11.4	10.55		mg/Kg	✱	93	75 - 125	2	20
Zinc	31.6	B	45.5	74.33		mg/Kg	✱	94	75 - 125	6	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-673667/1-A
Matrix: Solid
Analysis Batch: 673783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 673667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0045	mg/Kg		06/20/23 11:08	06/20/23 15:01	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-673667/2-A ^10

Matrix: Solid

Analysis Batch: 673783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 673667

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	18.2	18.53		mg/Kg		101.8	59.9 - 140.1

Lab Sample ID: 480-209823-1 MS

Matrix: Solid

Analysis Batch: 673783

Client Sample ID: BH1 0.5-1 FEET

Prep Type: Total/NA

Prep Batch: 673667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.098		0.384	0.460		mg/Kg	✱	94	80 - 120

Lab Sample ID: 480-209823-1 MSD

Matrix: Solid

Analysis Batch: 673783

Client Sample ID: BH1 0.5-1 FEET

Prep Type: Total/NA

Prep Batch: 673667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.098		0.404	0.463		mg/Kg	✱	90	80 - 120	1	20

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

GC/MS VOA

Analysis Batch: 673159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	8260C	673212
MB 480-673212/3-A	Method Blank	Total/NA	Solid	8260C	673212
LCS 480-673212/1-A	Lab Control Sample	Total/NA	Solid	8260C	673212

Analysis Batch: 673200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-3	BH3 0.5-1 FEET	Total/NA	Solid	8260C	673225
MB 480-673225/2-A	Method Blank	Total/NA	Solid	8260C	673225
LCS 480-673225/1-A	Lab Control Sample	Total/NA	Solid	8260C	673225

Prep Batch: 673212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	5035A_H	
MB 480-673212/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-673212/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Prep Batch: 673225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-3	BH3 0.5-1 FEET	Total/NA	Solid	5035A_L	
MB 480-673225/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-673225/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 673262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	3550C	
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	3550C	
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	3550C	
480-209823-5 - DL	BH4 0.5-3 FEET	Total/NA	Solid	3550C	
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	3550C	
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	3550C	
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	3550C	
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	3550C	
MB 480-673262/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-673262/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 673327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	8270D	673262
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	8270D	673262
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	8270D	673262
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	8270D	673262
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	8270D	673262
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	8270D	673262
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	8270D	673262
MB 480-673262/1-A	Method Blank	Total/NA	Solid	8270D	673262
LCS 480-673262/2-A	Lab Control Sample	Total/NA	Solid	8270D	673262

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

GC/MS Semi VOA

Analysis Batch: 673481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-5 - DL	BH4 0.5-3 FEET	Total/NA	Solid	8270D	673262

Metals

Prep Batch: 673359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	3050B	
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	3050B	
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	3050B	
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	3050B	
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	3050B	
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	3050B	
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	3050B	
MB 480-673359/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-673359/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-209823-7 MS	BH7 0.5-2 FEET	Total/NA	Solid	3050B	
480-209823-7 MSD	BH7 0.5-2 FEET	Total/NA	Solid	3050B	

Prep Batch: 673667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	7471B	
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	7471B	
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	7471B	
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	7471B	
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	7471B	
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	7471B	
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	7471B	
MB 480-673667/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-673667/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-209823-1 MS	BH1 0.5-1 FEET	Total/NA	Solid	7471B	
480-209823-1 MSD	BH1 0.5-1 FEET	Total/NA	Solid	7471B	

Analysis Batch: 673783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	7471B	673667
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	7471B	673667
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	7471B	673667
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	7471B	673667
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	7471B	673667
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	7471B	673667
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	7471B	673667
MB 480-673667/1-A	Method Blank	Total/NA	Solid	7471B	673667
LCSSRM 480-673667/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	673667
480-209823-1 MS	BH1 0.5-1 FEET	Total/NA	Solid	7471B	673667
480-209823-1 MSD	BH1 0.5-1 FEET	Total/NA	Solid	7471B	673667

Analysis Batch: 674359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	6010C	673359
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	6010C	673359
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	6010C	673359

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Metals (Continued)

Analysis Batch: 674359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	6010C	673359
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	6010C	673359
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	6010C	673359
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	6010C	673359
MB 480-673359/1-A	Method Blank	Total/NA	Solid	6010C	673359
LCSSRM 480-673359/2-A	Lab Control Sample	Total/NA	Solid	6010C	673359
480-209823-7 MS	BH7 0.5-2 FEET	Total/NA	Solid	6010C	673359
480-209823-7 MSD	BH7 0.5-2 FEET	Total/NA	Solid	6010C	673359

Analysis Batch: 674684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	6010C	673359

General Chemistry

Analysis Batch: 673088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209823-1	BH1 0.5-1 FEET	Total/NA	Solid	Moisture	
480-209823-3	BH3 0.5-1 FEET	Total/NA	Solid	Moisture	
480-209823-4	BH3 1-2 FEET	Total/NA	Solid	Moisture	
480-209823-5	BH4 0.5-3 FEET	Total/NA	Solid	Moisture	
480-209823-6	BH6 1-2 FEET	Total/NA	Solid	Moisture	
480-209823-7	BH7 0.5-2 FEET	Total/NA	Solid	Moisture	
480-209823-8	BH8 2-3 FEET	Total/NA	Solid	Moisture	
480-209823-9	BH9 1-3 FEET	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH1 0.5-1 FEET

Date Collected: 06/13/23 09:15

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH1 0.5-1 FEET

Date Collected: 06/13/23 09:15

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-1

Matrix: Solid

Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		5	673327	EMD	EET BUF	06/16/23 20:42
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 22:44
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:04

Client Sample ID: BH3 0.5-1 FEET

Date Collected: 06/13/23 09:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH3 0.5-1 FEET

Date Collected: 06/13/23 09:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-3

Matrix: Solid

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			673225	LCH	EET BUF	06/15/23 12:21
Total/NA	Analysis	8260C		1	673200	LCH	EET BUF	06/15/23 17:51

Client Sample ID: BH3 1-2 FEET

Date Collected: 06/13/23 09:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH3 1-2 FEET

Date Collected: 06/13/23 09:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-4

Matrix: Solid

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		20	673327	EMD	EET BUF	06/16/23 21:07
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 22:48

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH3 1-2 FEET

Date Collected: 06/13/23 09:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-4

Matrix: Solid

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:12

Client Sample ID: BH4 0.5-3 FEET

Date Collected: 06/13/23 10:15

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH4 0.5-3 FEET

Date Collected: 06/13/23 10:15

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-5

Matrix: Solid

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			673212	AXK	EET BUF	06/15/23 11:31
Total/NA	Analysis	8260C		50	673159	ATG	EET BUF	06/15/23 20:29
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		1	673327	EMD	EET BUF	06/16/23 21:31
Total/NA	Prep	3550C	DL		673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D	DL	5	673481	JMM	EET BUF	06/19/23 17:39
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 22:52
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:13

Client Sample ID: BH6 1-2 FEET

Date Collected: 06/13/23 11:10

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH6 1-2 FEET

Date Collected: 06/13/23 11:10

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-6

Matrix: Solid

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		1	673327	EMD	EET BUF	06/16/23 21:55
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 22:56
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		5	674684	LMH	EET BUF	06/27/23 15:27
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:14

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH7 0.5-2 FEET

Date Collected: 06/13/23 11:20

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH7 0.5-2 FEET

Date Collected: 06/13/23 11:20

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-7

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		1	673327	EMD	EET BUF	06/16/23 22:19
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 23:00
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:16

Client Sample ID: BH8 2-3 FEET

Date Collected: 06/13/23 11:40

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

Client Sample ID: BH8 2-3 FEET

Date Collected: 06/13/23 11:40

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-8

Matrix: Solid

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		5	673327	EMD	EET BUF	06/16/23 22:43
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 23:30
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:17

Client Sample ID: BH9 1-3 FEET

Date Collected: 06/13/23 11:50

Date Received: 06/13/23 16:35

Lab Sample ID: 480-209823-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	673088	JMM	EET BUF	06/14/23 15:43

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Client Sample ID: BH9 1-3 FEET

Lab Sample ID: 480-209823-9

Date Collected: 06/13/23 11:50

Matrix: Solid

Date Received: 06/13/23 16:35

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			673262	SJM	EET BUF	06/15/23 16:01
Total/NA	Analysis	8270D		1	673327	EMD	EET BUF	06/16/23 23:07
Total/NA	Prep	3050B			673359	MP	EET BUF	06/16/23 14:42
Total/NA	Analysis	6010C		1	674359	LMH	EET BUF	06/23/23 23:34
Total/NA	Prep	7471B			673667	NVK	EET BUF	06/20/23 11:08
Total/NA	Analysis	7471B		1	673783	NVK	EET BUF	06/20/23 15:18

Laboratory References:

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

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

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
5035A_H	Closed System 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: 273 Hickory - Buffalo, NY

Job ID: 480-209823-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-209823-1	BH1 0.5-1 FEET	Solid	06/13/23 09:15	06/13/23 16:35
480-209823-3	BH3 0.5-1 FEET	Solid	06/13/23 09:50	06/13/23 16:35
480-209823-4	BH3 1-2 FEET	Solid	06/13/23 09:50	06/13/23 16:35
480-209823-5	BH4 0.5-3 FEET	Solid	06/13/23 10:15	06/13/23 16:35
480-209823-6	BH6 1-2 FEET	Solid	06/13/23 11:10	06/13/23 16:35
480-209823-7	BH7 0.5-2 FEET	Solid	06/13/23 11:20	06/13/23 16:35
480-209823-8	BH8 2-3 FEET	Solid	06/13/23 11:40	06/13/23 16:35
480-209823-9	BH9 1-3 FEET	Solid	06/13/23 11:50	06/13/23 16:35

Chain of Custody Record



Client Information Address: 960 Busti Ave Suite B-150 City: Buffalo State, Zip: NY, 14213 Phone: 716-362-6533 (Tel) Email: pgorton@be3corp.com Project Name: 273 Hickory - Buffalo, NY Site: 273 HICKORY		Sampler: P. Gorton / J. Gorton Phone: 716-362-8320 Lab PM: Beninati, John E-Mail: John.Beninati@eurofins.com		Carrier Tracking No(s): 480-186142-39299.1 State of Origin: Page 1 of 1 Job #		COC No: 480-186142-39299.1									
Analysis Requested Due Date Requested: 10-day TAT Requested (days): Compliance Project: ☐ Yes ☐ No PO # ELLEN & MATTHEW Purchase Order not required WO # Project # 48026587 SSOW#															
Sample Identification BH1 0.5-1 Feet BH2 0.5-1 Feet BH3 0.5-1 Feet BH3 1-2 Feet BH4 0.5-3 Feet BH6 1-2 Feet BH7 0.5-2 Feet BH8 2-3 Feet BH9 1-3 Feet		Sample Date 6-13-23 9:15 9:30 9:50 9:50 10:15 1:10 1:20 1:40 1:50		Sample Time 9:15 9:30 9:50 9:50 10:15 1:10 1:20 1:40 1:50		Sample Type G=Grab G 		Matrix (Water, Solid, Overstabil, RT-Tissue, Air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) 6010C, 7471B, 8270D 8260C - Part 375 VOCs (LL BULK) + TICs		Total Number of Containers 1		Special Instructions/Note: HOLD ANALYSIS ORDER GAS ORDER  480-209823 Chain of Custody	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) N/A															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months															
Special Instructions/OC Requirements: HOLD SAMPLE BHA FROM ANALYSIS															
Empty Kit Relinquished by: Joseph Hewitson Date/Time: 6/13/23 @ 16:35 Company: BE3		Relinquished by: Joseph Hewitson Date/Time: 6/13/23 @ 16:35 Company: BE3		Relinquished by: Joseph Hewitson Date/Time: 6/13/23 @ 16:35 Company: BE3		Relinquished by: Joseph Hewitson Date/Time: 6/13/23 @ 16:35 Company: BE3									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No: 417 # 12CE		Cooler Temperature(s) °C and Other Remarks: 417 # 12CE		Company: Eurofins Buffalo									

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-209823-1

Login Number: 209823

List Number: 1

Creator: Yeager, Brian A

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.	N/A	
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.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/30/2023 9:35:20 AM

JOB DESCRIPTION

273 Hickory Street Plus

JOB NUMBER

480-214037-1

Eurofins Buffalo

Job Notes

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

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

Authorization



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10/30/2023 9:35:20 AM

Authorized for release by
John Beninati, Project Manager I
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(716)504-9874

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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

Glossary

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

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Job ID: 480-214037-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-214037-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/24/2023 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.7° C.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-01 1-3 FT (480-214037-1), BH-02 0.5-1 FT (480-214037-2), BH-06 1-3 FT (480-214037-6), BH-07 1-3.5 FT (480-214037-7), BH-09 0-2 FT (480-214037-9), BH-10 0-2 FT (480-214037-10), BH-11 0-3 FT (480-214037-11), BH-12 0-2 FT (480-214037-12), BH-13 0-3 FT (480-214037-13), (480-214037-A-1-B MS) and (480-214037-A-1-C MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-688826 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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: BH-01 1-3 FT (480-214037-1), BH-02 0.5-1 FT (480-214037-2), BH-05 1-4 FT (480-214037-5), BH-06 1-3 FT (480-214037-6), BH-07 1-3.5 FT (480-214037-7), BH-09 0-2 FT (480-214037-9), BH-10 0-2 FT (480-214037-10), BH-11 0-3 FT (480-214037-11), BH-13 0-3 FT (480-214037-13), BH-14 0-1 FT (480-214037-14) and (LCS 480-688906/2-A). These results have been reported and qualified.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: BH-12 0-2 FT (480-214037-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-688906 and analytical batch 480-688826 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-688906 and analytical batch 480-688826 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

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

Metals

No analytical or quality issues were noted, other than those described 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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-01 1-3 FT

Lab Sample ID: 480-214037-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	150	J F1 F2	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	150	J F1 F2	1100	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	170	J F2	1100	170	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	120	J F2	1100	110	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	230	J F1 F2	1100	110	ug/Kg	5	✱	8270D	Total/NA
Pyrene	190	J F1 F2	1100	120	ug/Kg	5	✱	8270D	Total/NA
Arsenic	9.0		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	139		0.62	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.73		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.44		0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	17.5		0.62	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	32.6		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	230		1.2	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	418	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.7		6.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.83	J	5.0	0.50	mg/Kg	1	✱	6010C	Total/NA
Zinc	139		2.5	0.80	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.27		0.024	0.0054	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-02 0.5-1 FT

Lab Sample ID: 480-214037-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	270	J	2100	220	ug/Kg	10	✱	8270D	Total/NA
Arsenic	8.1		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	136		0.60	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.85		0.24	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	3.1		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.3		0.60	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	34.4		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	87.7		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	486	B	0.24	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	29.9		6.0	0.28	mg/Kg	1	✱	6010C	Total/NA
Zinc	233		2.4	0.77	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.077		0.025	0.0057	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-05 1-4 FT

Lab Sample ID: 480-214037-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3-Methylphenol	42	J	380	30	ug/Kg	1	✱	8270D	Total/NA
4-Methylphenol	42	J	380	23	ug/Kg	1	✱	8270D	Total/NA
Acenaphthene	540		190	28	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	110	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	1300		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	2900		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	2900		190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	3300		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	850		190	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	1300		190	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	2700		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	350		190	34	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	430		190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	5400		190	21	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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-05 1-4 FT (Continued)

Lab Sample ID: 480-214037-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	500		190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	960		190	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	380		190	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	4900		190	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	3600		190	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	5.3		2.3	0.46	mg/Kg	1	✱	6010C	Total/NA
Barium	59.9		0.58	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.34		0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.057	J	0.23	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	9.0		0.58	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	10.5		1.2	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	52.0		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	194	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	9.1		5.8	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	31.0		2.3	0.74	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.067		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-06 1-3 FT

Lab Sample ID: 480-214037-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	320	J	1000	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	330	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	370	J	1000	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	140	J	1000	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	180	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Chrysene	310	J	1000	230	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	630	J	1000	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	170	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	380	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Pyrene	440	J	1000	120	ug/Kg	5	✱	8270D	Total/NA
Arsenic	9.0		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	242		0.61	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.67		0.24	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.28		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.8		0.61	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	36.6		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	735		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	304	B	0.24	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	23.9		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.92	J	4.8	0.48	mg/Kg	1	✱	6010C	Total/NA
Zinc	215		2.4	0.77	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.5		0.025	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-07 1-3.5 FT

Lab Sample ID: 480-214037-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	940	J	2000	290	ug/Kg	10	✱	8270D	Total/NA
Anthracene	2100		2000	490	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	5500		2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	5700		2000	290	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	6300		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	2100		2000	210	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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-07 1-3.5 FT (Continued)

Lab Sample ID: 480-214037-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	3500		2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	5300		2000	450	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	670	J	2000	350	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	530	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	15000		2000	210	ug/Kg	10	✱	8270D	Total/NA
Fluorene	850	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2200		2000	250	ug/Kg	10	✱	8270D	Total/NA
Naphthalene	620	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	8600		2000	290	ug/Kg	10	✱	8270D	Total/NA
Pyrene	8500		2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	16.7		2.4	0.49	mg/Kg	1	✱	6010C	Total/NA
Barium	408		0.61	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	1.4		0.24	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.9		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	25.6		0.61	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	92.7		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	488		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	950	B	0.24	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.7		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.74	J	4.9	0.49	mg/Kg	1	✱	6010C	Total/NA
Zinc	339		2.4	0.78	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.092		0.023	0.0054	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-09 0-2 FT

Lab Sample ID: 480-214037-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1100		1100	160	ug/Kg	5	✱	8270D	Total/NA
Acenaphthylene	760	J	1100	140	ug/Kg	5	✱	8270D	Total/NA
Anthracene	3000		1100	270	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	5400		1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	4800		1100	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	5700		1100	170	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1300		1100	120	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	2200		1100	140	ug/Kg	5	✱	8270D	Total/NA
Chrysene	5300		1100	250	ug/Kg	5	✱	8270D	Total/NA
Dibenz(a,h)anthracene	560	J	1100	190	ug/Kg	5	✱	8270D	Total/NA
Dibenzofuran	840	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	13000		1100	120	ug/Kg	5	✱	8270D	Total/NA
Fluorene	1500		1100	130	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1400		1100	140	ug/Kg	5	✱	8270D	Total/NA
Naphthalene	610	J	1100	140	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	10000		1100	160	ug/Kg	5	✱	8270D	Total/NA
Pyrene	7900		1100	130	ug/Kg	5	✱	8270D	Total/NA
Arsenic	6.3		2.7	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	46.0		0.67	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.56		0.27	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.13	J	0.27	0.040	mg/Kg	1	✱	6010C	Total/NA
Chromium	10.0		0.67	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	23.1		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	38.5		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	154	B	0.27	0.043	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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-09 0-2 FT (Continued)

Lab Sample ID: 480-214037-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	15.9		6.7	0.31	mg/Kg	1	✱	6010C	Total/NA
Zinc	72.5		2.7	0.85	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.8		0.027	0.0062	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-10 0-2 FT

Lab Sample ID: 480-214037-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1200	J	2200	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	1200	J	2200	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1400	J	2200	350	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	450	J	2200	230	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	600	J	2200	280	ug/Kg	10	✱	8270D	Total/NA
Chrysene	1100	J	2200	490	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	2700		2200	230	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	490	J	2200	270	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	1500	J	2200	320	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1600	J	2200	260	ug/Kg	10	✱	8270D	Total/NA
Arsenic	13.0		2.6	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	162		0.66	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.66		0.26	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.63		0.26	0.040	mg/Kg	1	✱	6010C	Total/NA
Chromium	17.7		0.66	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	49.7		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	457		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	349	B	0.26	0.042	mg/Kg	1	✱	6010C	Total/NA
Nickel	23.4		6.6	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	321		2.6	0.85	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.46		0.026	0.0059	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-11 0-3 FT

Lab Sample ID: 480-214037-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	380	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Acenaphthylene	530	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Anthracene	1000	J	2000	500	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	3600		2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	4000		2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	4600		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	1400	J	2000	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	2700		2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	4100		2000	460	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	490	J	2000	360	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	340	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	11000		2000	220	ug/Kg	10	✱	8270D	Total/NA
Fluorene	510	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1500	J	2000	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	6800		2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	6300		2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	16.3		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	260		0.62	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.92		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.3		0.25	0.037	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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-11 0-3 FT (Continued)

Lab Sample ID: 480-214037-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	27.9		0.62	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	57.0		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	1130		1.2	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	343	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	27.6		6.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.99	J	5.0	0.50	mg/Kg	1	✱	6010C	Total/NA
Zinc	554		2.5	0.80	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.3		0.025	0.0058	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-12 0-2 FT

Lab Sample ID: 480-214037-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1500	J	4000	590	ug/Kg	20	✱	8270D	Total/NA
Acenaphthylene	5200		4000	520	ug/Kg	20	✱	8270D	Total/NA
Anthracene	7000		4000	990	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]anthracene	23000		4000	400	ug/Kg	20	✱	8270D	Total/NA
Benzo[a]pyrene	24000		4000	590	ug/Kg	20	✱	8270D	Total/NA
Benzo[b]fluoranthene	32000		4000	640	ug/Kg	20	✱	8270D	Total/NA
Benzo[g,h,i]perylene	7900		4000	420	ug/Kg	20	✱	8270D	Total/NA
Benzo[k]fluoranthene	14000		4000	520	ug/Kg	20	✱	8270D	Total/NA
Chrysene	26000		4000	900	ug/Kg	20	✱	8270D	Total/NA
Dibenz(a,h)anthracene	2300	J	4000	710	ug/Kg	20	✱	8270D	Total/NA
Dibenzofuran	2800	J	4000	470	ug/Kg	20	✱	8270D	Total/NA
Fluoranthene	77000		4000	420	ug/Kg	20	✱	8270D	Total/NA
Fluorene	2900	J	4000	470	ug/Kg	20	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	8200		4000	500	ug/Kg	20	✱	8270D	Total/NA
Naphthalene	1100	J	4000	520	ug/Kg	20	✱	8270D	Total/NA
Phenanthrene	54000		4000	590	ug/Kg	20	✱	8270D	Total/NA
Pyrene	41000		4000	470	ug/Kg	20	✱	8270D	Total/NA
Arsenic	17.9		2.5	0.50	mg/Kg	1	✱	6010C	Total/NA
Barium	258		0.62	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.86		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.78		0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	24.5		0.62	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	38.8		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	816		1.2	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	363	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	22.2		6.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Zinc	308		2.5	0.80	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.80		0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-13 0-3 FT

Lab Sample ID: 480-214037-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	310	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Anthracene	680	J	2000	500	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	1600	J	2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	1800	J	2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	2100		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	690	J	2000	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	1100	J	2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	1600	J	2000	450	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: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-13 0-3 FT (Continued)

Lab Sample ID: 480-214037-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	4100		2000	210	ug/Kg	10	✱	8270D	Total/NA
Fluorene	310	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	650	J	2000	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	2800		2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	2200		2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	16.9		2.3	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	378		0.58	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	1.4		0.23	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.3		0.23	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	20.4		0.58	0.23	mg/Kg	1	✱	6010C	Total/NA
Copper	85.3		1.2	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	2240		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	733	B	0.23	0.037	mg/Kg	1	✱	6010C	Total/NA
Nickel	17.4		5.8	0.27	mg/Kg	1	✱	6010C	Total/NA
Selenium	2.2	J	4.7	0.47	mg/Kg	1	✱	6010C	Total/NA
Zinc	717		2.3	0.75	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.5		0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-14 0-1 FT

Lab Sample ID: 480-214037-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	92	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Anthracene	79	J	190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	450		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	550		190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	810		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	200		190	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	280		190	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	540		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	69	J	190	34	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	160	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	1000		190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190		190	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	300		190	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	680		190	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	580		190	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	3.2		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	151		0.60	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	3.1		0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Chromium	7.7		0.60	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	16.9		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	31.0		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	1240	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	13.2		6.0	0.28	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.94	J	4.8	0.48	mg/Kg	1	✱	6010C	Total/NA
Zinc	20.1		2.4	0.77	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.10		0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-01 1-3 FT

Lab Sample ID: 480-214037-1

Date Collected: 10/23/23 08:45

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	620	U	620	340	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
2-Methylphenol	1100	U	1100	120	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
3-Methylphenol	2000	U	2000	160	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Acenaphthene	1100	U	1100	150	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Acenaphthylene	1100	U	1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Anthracene	1100	U F2	1100	260	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Benzo[a]anthracene	150	J F1 F2	1100	110	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Benzo[a]pyrene	150	J F1 F2	1100	150	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Benzo[b]fluoranthene	170	J F2	1100	170	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Benzo[g,h,i]perylene	120	J F2	1100	110	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Benzo[k]fluoranthene	1100	U F2	1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Chrysene	1100	U F1 F2	1100	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Dibenz(a,h)anthracene	1100	U	1100	190	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Dibenzofuran	1100	U	1100	120	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Fluoranthene	230	J F1 F2	1100	110	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Fluorene	1100	U F2	1100	120	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Hexachlorobenzene	1100	U	1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Indeno[1,2,3-cd]pyrene	1100	U F1 F2	1100	130	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Naphthalene	1100	U	1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Pentachlorophenol	2000	U	2000	1100	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Phenanthrene	1100	U F1 F2	1100	150	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Phenol	1100	U	1100	160	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5
Pyrene	190	J F1 F2	1100	120	ug/Kg	☆	10/24/23 15:51	10/25/23 17:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	40	S1-	54 - 120	10/24/23 15:51	10/25/23 17:00	5
2-Fluorobiphenyl (Surr)	95		60 - 120	10/24/23 15:51	10/25/23 17:00	5
2-Fluorophenol (Surr)	77		52 - 120	10/24/23 15:51	10/25/23 17:00	5
Nitrobenzene-d5 (Surr)	80		53 - 120	10/24/23 15:51	10/25/23 17:00	5
Phenol-d5 (Surr)	82		54 - 120	10/24/23 15:51	10/25/23 17:00	5
p-Terphenyl-d14 (Surr)	100		79 - 130	10/24/23 15:51	10/25/23 17:00	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.5	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Barium	139		0.62	0.14	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Beryllium	0.73		0.25	0.035	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Cadmium	0.44		0.25	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Chromium	17.5		0.62	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Copper	32.6		1.2	0.26	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Lead	230		1.2	0.30	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Manganese	418	B	0.25	0.040	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Nickel	17.7		6.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Selenium	0.83	J	5.0	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Silver	0.75	U	0.75	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1
Zinc	139		2.5	0.80	mg/Kg	☆	10/24/23 11:55	10/26/23 20:34	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-01 1-3 FT

Lab Sample ID: 480-214037-1

Date Collected: 10/23/23 08:45

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 78.7

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.024	0.0054	mg/Kg	☆	10/25/23 10:43	10/25/23 13:24	1

Client Sample ID: BH-02 0.5-1 FT

Lab Sample ID: 480-214037-2

Date Collected: 10/23/23 09:00

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 80.3

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	670	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
2-Methylphenol	2100	U	2100	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
3-Methylphenol	4000	U	4000	320	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
4-Methylphenol	4000	U	4000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Acenaphthene	2100	U	2100	300	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Acenaphthylene	2100	U	2100	270	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Anthracene	2100	U	2100	510	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Benzo[a]anthracene	2100	U	2100	210	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Benzo[a]pyrene	2100	U	2100	300	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Benzo[b]fluoranthene	2100	U	2100	330	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Benzo[g,h,i]perylene	2100	U	2100	220	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Benzo[k]fluoranthene	2100	U	2100	270	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Chrysene	2100	U	2100	460	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Dibenz(a,h)anthracene	2100	U	2100	360	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Dibenzofuran	2100	U	2100	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Fluoranthene	270	J	2100	220	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Fluorene	2100	U	2100	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Hexachlorobenzene	2100	U	2100	280	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Indeno[1,2,3-cd]pyrene	2100	U	2100	260	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Naphthalene	2100	U	2100	270	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Pentachlorophenol	4000	U	4000	2100	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Phenanthrene	2100	U	2100	300	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Phenol	2100	U	2100	320	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10
Pyrene	2100	U	2100	240	ug/Kg	☆	10/24/23 15:51	10/25/23 17:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	23	S1-	54 - 120	10/24/23 15:51	10/25/23 17:24	10
2-Fluorobiphenyl (Surr)	68		60 - 120	10/24/23 15:51	10/25/23 17:24	10
2-Fluorophenol (Surr)	58		52 - 120	10/24/23 15:51	10/25/23 17:24	10
Nitrobenzene-d5 (Surr)	66		53 - 120	10/24/23 15:51	10/25/23 17:24	10
Phenol-d5 (Surr)	59		54 - 120	10/24/23 15:51	10/25/23 17:24	10
p-Terphenyl-d14 (Surr)	73	S1-	79 - 130	10/24/23 15:51	10/25/23 17:24	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		2.4	0.48	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Barium	136		0.60	0.13	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Beryllium	0.85		0.24	0.034	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Cadmium	3.1		0.24	0.036	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Chromium	19.3		0.60	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Copper	34.4		1.2	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Lead	87.7		1.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-02 0.5-1 FT

Lab Sample ID: 480-214037-2

Date Collected: 10/23/23 09:00

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	486	B	0.24	0.039	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Nickel	29.9		6.0	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Silver	0.73	U	0.73	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1
Zinc	233		2.4	0.77	mg/Kg	☆	10/24/23 11:55	10/26/23 20:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.077		0.025	0.0057	mg/Kg	☆	10/25/23 10:43	10/25/23 13:25	1

Client Sample ID: BH-05 1-4 FT

Lab Sample ID: 480-214037-5

Date Collected: 10/23/23 09:55

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 85.5

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	63	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
2-Methylphenol	190	U	190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
3-Methylphenol	42	J	380	30	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
4-Methylphenol	42	J	380	23	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Acenaphthene	540		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Acenaphthylene	110	J	190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Anthracene	1300		190	48	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Benzo[a]anthracene	2900		190	19	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Benzo[a]pyrene	2900		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Benzo[b]fluoranthene	3300		190	31	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Benzo[g,h,i]perylene	850		190	21	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Benzo[k]fluoranthene	1300		190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Chrysene	2700		190	43	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Dibenz(a,h)anthracene	350		190	34	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Dibenzofuran	430		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Fluoranthene	5400		190	21	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Fluorene	500		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Indeno[1,2,3-cd]pyrene	960		190	24	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Naphthalene	380		190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Pentachlorophenol	380	U	380	190	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Phenanthrene	4900		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Phenol	190	U	190	30	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1
Pyrene	3600		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46	S1-	54 - 120	10/24/23 15:51	10/25/23 17:49	1
2-Fluorobiphenyl (Surr)	67		60 - 120	10/24/23 15:51	10/25/23 17:49	1
2-Fluorophenol (Surr)	55		52 - 120	10/24/23 15:51	10/25/23 17:49	1
Nitrobenzene-d5 (Surr)	57		53 - 120	10/24/23 15:51	10/25/23 17:49	1
Phenol-d5 (Surr)	55		54 - 120	10/24/23 15:51	10/25/23 17:49	1
p-Terphenyl-d14 (Surr)	57	S1-	79 - 130	10/24/23 15:51	10/25/23 17:49	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-05 1-4 FT

Lab Sample ID: 480-214037-5

Date Collected: 10/23/23 09:55

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 85.5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		2.3	0.46	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Barium	59.9		0.58	0.13	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Beryllium	0.34		0.23	0.032	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Cadmium	0.057	J	0.23	0.035	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Chromium	9.0		0.58	0.23	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Copper	10.5		1.2	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Lead	52.0		1.2	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Manganese	194	B	0.23	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Nickel	9.1		5.8	0.27	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Silver	0.69	U	0.69	0.23	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1
Zinc	31.0		2.3	0.74	mg/Kg	☆	10/24/23 11:55	10/26/23 20:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.022	0.0051	mg/Kg	☆	10/25/23 10:43	10/25/23 13:26	1

Client Sample ID: BH-06 1-3 FT

Lab Sample ID: 480-214037-6

Date Collected: 10/23/23 10:10

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	600	U	600	330	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
3-Methylphenol	2000	U	2000	160	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Acenaphthene	1000	U	1000	150	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Acenaphthylene	1000	U	1000	130	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Anthracene	1000	U	1000	250	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Benzo[a]anthracene	320	J	1000	100	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Benzo[a]pyrene	330	J	1000	150	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Benzo[b]fluoranthene	370	J	1000	160	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Benzo[g,h,i]perylene	140	J	1000	110	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Benzo[k]fluoranthene	180	J	1000	130	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Chrysene	310	J	1000	230	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Dibenz(a,h)anthracene	1000	U	1000	180	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Dibenzofuran	1000	U	1000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Fluoranthene	630	J	1000	110	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Fluorene	1000	U	1000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Indeno[1,2,3-cd]pyrene	170	J	1000	130	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Naphthalene	1000	U	1000	130	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Phenanthrene	380	J	1000	150	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Phenol	1000	U	1000	160	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5
Pyrene	440	J	1000	120	ug/Kg	☆	10/24/23 15:51	10/25/23 18:14	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	30	S1-	54 - 120	10/24/23 15:51	10/25/23 18:14	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-06 1-3 FT

Lab Sample ID: 480-214037-6

Date Collected: 10/23/23 10:10

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 81.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		60 - 120	10/24/23 15:51	10/25/23 18:14	5
2-Fluorophenol (Surr)	70		52 - 120	10/24/23 15:51	10/25/23 18:14	5
Nitrobenzene-d5 (Surr)	69		53 - 120	10/24/23 15:51	10/25/23 18:14	5
Phenol-d5 (Surr)	70		54 - 120	10/24/23 15:51	10/25/23 18:14	5
p-Terphenyl-d14 (Surr)	76	S1-	79 - 130	10/24/23 15:51	10/25/23 18:14	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.4	0.48	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Barium	242		0.61	0.13	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Beryllium	0.67		0.24	0.034	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Cadmium	0.28		0.24	0.036	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Chromium	20.8		0.61	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Copper	36.6		1.2	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Lead	735		1.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Manganese	304	B	0.24	0.039	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Nickel	23.9		6.1	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Selenium	0.92	J	4.8	0.48	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Silver	0.73	U	0.73	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1
Zinc	215		2.4	0.77	mg/Kg	☆	10/24/23 11:55	10/26/23 20:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.025	0.0056	mg/Kg	☆	10/25/23 10:43	10/25/23 13:27	1

Client Sample ID: BH-07 1-3.5 FT

Lab Sample ID: 480-214037-7

Date Collected: 10/23/23 10:30

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 83.8

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	650	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
3-Methylphenol	3900	U	3900	310	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
4-Methylphenol	3900	U	3900	240	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Acenaphthene	940	J	2000	290	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Acenaphthylene	2000	U	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Anthracene	2100		2000	490	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Benzo[a]anthracene	5500		2000	200	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Benzo[a]pyrene	5700		2000	290	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Benzo[b]fluoranthene	6300		2000	320	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Benzo[g,h,i]perylene	2100		2000	210	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Benzo[k]fluoranthene	3500		2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Chrysene	5300		2000	450	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Dibenz(a,h)anthracene	670	J	2000	350	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Dibenzofuran	530	J	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Fluoranthene	15000		2000	210	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Fluorene	850	J	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Hexachlorobenzene	2000	U	2000	270	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Indeno[1,2,3-cd]pyrene	2200		2000	250	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-07 1-3.5 FT

Lab Sample ID: 480-214037-7

Date Collected: 10/23/23 10:30

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	620	J	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Pentachlorophenol	3900	U	3900	2000	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Phenanthrene	8600		2000	290	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Phenol	2000	U	2000	310	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Pyrene	8500		2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 18:39	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	31	S1-	54 - 120				10/24/23 15:51	10/25/23 18:39	10
2-Fluorobiphenyl (Surr)	80		60 - 120				10/24/23 15:51	10/25/23 18:39	10
2-Fluorophenol (Surr)	68		52 - 120				10/24/23 15:51	10/25/23 18:39	10
Nitrobenzene-d5 (Surr)	71		53 - 120				10/24/23 15:51	10/25/23 18:39	10
Phenol-d5 (Surr)	61		54 - 120				10/24/23 15:51	10/25/23 18:39	10
p-Terphenyl-d14 (Surr)	77	S1-	79 - 130				10/24/23 15:51	10/25/23 18:39	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.7		2.4	0.49	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Barium	408		0.61	0.13	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Beryllium	1.4		0.24	0.034	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Cadmium	1.9		0.24	0.036	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Chromium	25.6		0.61	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Copper	92.7		1.2	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Lead	488		1.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Manganese	950	B	0.24	0.039	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Nickel	17.7		6.1	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Selenium	0.74	J	4.9	0.49	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Silver	0.73	U	0.73	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1
Zinc	339		2.4	0.78	mg/Kg	☆	10/24/23 11:55	10/26/23 20:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.023	0.0054	mg/Kg	☆	10/25/23 10:43	10/25/23 13:29	1

Client Sample ID: BH-09 0-2 FT

Lab Sample ID: 480-214037-9

Date Collected: 10/23/23 11:10

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	650	U	650	360	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
2-Methylphenol	1100	U	1100	130	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
3-Methylphenol	2100	U	2100	170	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
4-Methylphenol	2100	U	2100	130	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Acenaphthene	1100		1100	160	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Acenaphthylene	760	J	1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Anthracene	3000		1100	270	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Benzo[a]anthracene	5400		1100	110	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Benzo[a]pyrene	4800		1100	160	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Benzo[b]fluoranthene	5700		1100	170	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Benzo[g,h,i]perylene	1300		1100	120	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5
Benzo[k]fluoranthene	2200		1100	140	ug/Kg	☆	10/24/23 15:51	10/25/23 19:04	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-09 0-2 FT

Lab Sample ID: 480-214037-9

Date Collected: 10/23/23 11:10

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	5300		1100	250	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Dibenz(a,h)anthracene	560	J	1100	190	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Dibenzofuran	840	J	1100	130	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Fluoranthene	13000		1100	120	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Fluorene	1500		1100	130	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Indeno[1,2,3-cd]pyrene	1400		1100	140	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Naphthalene	610	J	1100	140	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Pentachlorophenol	2100	U	2100	1100	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Phenanthrene	10000		1100	160	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Phenol	1100	U	1100	170	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5
Pyrene	7900		1100	130	ug/Kg	✱	10/24/23 15:51	10/25/23 19:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	24	S1-	54 - 120	10/24/23 15:51	10/25/23 19:04	5
2-Fluorobiphenyl (Surr)	84		60 - 120	10/24/23 15:51	10/25/23 19:04	5
2-Fluorophenol (Surr)	69		52 - 120	10/24/23 15:51	10/25/23 19:04	5
Nitrobenzene-d5 (Surr)	71		53 - 120	10/24/23 15:51	10/25/23 19:04	5
Phenol-d5 (Surr)	70		54 - 120	10/24/23 15:51	10/25/23 19:04	5
p-Terphenyl-d14 (Surr)	79		79 - 130	10/24/23 15:51	10/25/23 19:04	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		2.7	0.53	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Barium	46.0		0.67	0.15	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Beryllium	0.56		0.27	0.037	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Cadmium	0.13	J	0.27	0.040	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Chromium	10.0		0.67	0.27	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Copper	23.1		1.3	0.28	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Lead	38.5		1.3	0.32	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Manganese	154	B	0.27	0.043	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Nickel	15.9		6.7	0.31	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Selenium	5.3	U	5.3	0.53	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Silver	0.80	U	0.80	0.27	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1
Zinc	72.5		2.7	0.85	mg/Kg	✱	10/24/23 11:55	10/26/23 21:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.027	0.0062	mg/Kg	✱	10/25/23 10:43	10/25/23 13:30	1

Client Sample ID: BH-10 0-2 FT

Lab Sample ID: 480-214037-10

Date Collected: 10/23/23 11:20

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1300	U	1300	700	ug/Kg	✱	10/24/23 15:51	10/25/23 19:29	10
2-Methylphenol	2200	U	2200	260	ug/Kg	✱	10/24/23 15:51	10/25/23 19:29	10
3-Methylphenol	4200	U	4200	330	ug/Kg	✱	10/24/23 15:51	10/25/23 19:29	10
4-Methylphenol	4200	U	4200	260	ug/Kg	✱	10/24/23 15:51	10/25/23 19:29	10
Acenaphthene	2200	U	2200	320	ug/Kg	✱	10/24/23 15:51	10/25/23 19:29	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-10 0-2 FT

Lab Sample ID: 480-214037-10

Date Collected: 10/23/23 11:20

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 76.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	2200	U	2200	280	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Anthracene	2200	U	2200	540	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Benzo[a]anthracene	1200	J	2200	220	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Benzo[a]pyrene	1200	J	2200	320	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Benzo[b]fluoranthene	1400	J	2200	350	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Benzo[g,h,i]perylene	450	J	2200	230	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Benzo[k]fluoranthene	600	J	2200	280	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Chrysene	1100	J	2200	490	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Dibenz(a,h)anthracene	2200	U	2200	380	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Dibenzofuran	2200	U	2200	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Fluoranthene	2700		2200	230	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Fluorene	2200	U	2200	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Hexachlorobenzene	2200	U	2200	290	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Indeno[1,2,3-cd]pyrene	490	J	2200	270	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Naphthalene	2200	U	2200	280	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Pentachlorophenol	4200	U	4200	2200	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Phenanthrene	1500	J	2200	320	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Phenol	2200	U	2200	330	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10
Pyrene	1600	J	2200	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		54 - 120	10/24/23 15:51	10/25/23 19:29	10
2-Fluorobiphenyl (Surr)	80		60 - 120	10/24/23 15:51	10/25/23 19:29	10
2-Fluorophenol (Surr)	69		52 - 120	10/24/23 15:51	10/25/23 19:29	10
Nitrobenzene-d5 (Surr)	72		53 - 120	10/24/23 15:51	10/25/23 19:29	10
Phenol-d5 (Surr)	67		54 - 120	10/24/23 15:51	10/25/23 19:29	10
p-Terphenyl-d14 (Surr)	78	S1-	79 - 130	10/24/23 15:51	10/25/23 19:29	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.0		2.6	0.53	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Barium	162		0.66	0.15	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Beryllium	0.66		0.26	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Cadmium	0.63		0.26	0.040	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Chromium	17.7		0.66	0.26	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Copper	49.7		1.3	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Lead	457		1.3	0.32	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Manganese	349	B	0.26	0.042	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Nickel	23.4		6.6	0.30	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Selenium	5.3	U	5.3	0.53	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Silver	0.79	U	0.79	0.26	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1
Zinc	321		2.6	0.85	mg/Kg	☆	10/24/23 11:55	10/26/23 21:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.026	0.0059	mg/Kg	☆	10/25/23 10:43	10/25/23 13:31	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-11 0-3 FT

Lab Sample ID: 480-214037-11

Date Collected: 10/23/23 11:30

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 82.4

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	☆	10/24/23 15:51	10/25/23 19:54	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
3-Methylphenol	4000	U	4000	310	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
4-Methylphenol	4000	U	4000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Acenaphthene	380	J	2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Acenaphthylene	530	J	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Anthracene	1000	J	2000	500	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Benzo[a]anthracene	3600		2000	200	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Benzo[a]pyrene	4000		2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Benzo[b]fluoranthene	4600		2000	320	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Benzo[g,h,i]perylene	1400	J	2000	220	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Benzo[k]fluoranthene	2700		2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Chrysene	4100		2000	460	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Dibenz(a,h)anthracene	490	J	2000	360	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Dibenzofuran	340	J	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Fluoranthene	11000		2000	220	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Fluorene	510	J	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Hexachlorobenzene	2000	U	2000	280	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Indeno[1,2,3-cd]pyrene	1500	J	2000	250	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Pentachlorophenol	4000	U	4000	2000	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Phenanthrene	6800		2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Phenol	2000	U	2000	310	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10
Pyrene	6300		2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 19:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	33	S1-	54 - 120	10/24/23 15:51	10/25/23 19:54	10
2-Fluorobiphenyl (Surr)	89		60 - 120	10/24/23 15:51	10/25/23 19:54	10
2-Fluorophenol (Surr)	78		52 - 120	10/24/23 15:51	10/25/23 19:54	10
Nitrobenzene-d5 (Surr)	81		53 - 120	10/24/23 15:51	10/25/23 19:54	10
Phenol-d5 (Surr)	73		54 - 120	10/24/23 15:51	10/25/23 19:54	10
p-Terphenyl-d14 (Surr)	80		79 - 130	10/24/23 15:51	10/25/23 19:54	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.3		2.5	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Barium	260		0.62	0.14	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Beryllium	0.92		0.25	0.035	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Cadmium	1.3		0.25	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Chromium	27.9		0.62	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Copper	57.0		1.2	0.26	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Lead	1130		1.2	0.30	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Manganese	343	B	0.25	0.040	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Nickel	27.6		6.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Selenium	0.99	J	5.0	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Silver	0.75	U	0.75	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1
Zinc	554		2.5	0.80	mg/Kg	☆	10/24/23 11:55	10/26/23 21:09	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-11 0-3 FT

Lab Sample ID: 480-214037-11

Date Collected: 10/23/23 11:30

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 82.4

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.025	0.0058	mg/Kg	☆	10/25/23 10:43	10/25/23 13:34	1

Client Sample ID: BH-12 0-2 FT

Lab Sample ID: 480-214037-12

Date Collected: 10/23/23 11:40

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2400	U	2400	1300	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
2-Methylphenol	4000	U	4000	470	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
3-Methylphenol	7800	U	7800	610	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
4-Methylphenol	7800	U	7800	470	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Acenaphthene	1500	J	4000	590	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Acenaphthylene	5200		4000	520	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Anthracene	7000		4000	990	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Benzo[a]anthracene	23000		4000	400	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Benzo[a]pyrene	24000		4000	590	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Benzo[b]fluoranthene	32000		4000	640	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Benzo[g,h,i]perylene	7900		4000	420	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Benzo[k]fluoranthene	14000		4000	520	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Chrysene	26000		4000	900	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Dibenz(a,h)anthracene	2300	J	4000	710	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Dibenzofuran	2800	J	4000	470	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Fluoranthene	77000		4000	420	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Fluorene	2900	J	4000	470	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Hexachlorobenzene	4000	U	4000	540	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Indeno[1,2,3-cd]pyrene	8200		4000	500	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Naphthalene	1100	J	4000	520	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Pentachlorophenol	7800	U	7800	4000	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Phenanthrene	54000		4000	590	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Phenol	4000	U	4000	610	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20
Pyrene	41000		4000	470	ug/Kg	☆	10/24/23 15:51	10/25/23 20:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	10/24/23 15:51	10/25/23 20:19	20
2-Fluorobiphenyl (Surr)	77		60 - 120	10/24/23 15:51	10/25/23 20:19	20
2-Fluorophenol (Surr)	73		52 - 120	10/24/23 15:51	10/25/23 20:19	20
Nitrobenzene-d5 (Surr)	80		53 - 120	10/24/23 15:51	10/25/23 20:19	20
Phenol-d5 (Surr)	66		54 - 120	10/24/23 15:51	10/25/23 20:19	20
p-Terphenyl-d14 (Surr)	76	S1-	79 - 130	10/24/23 15:51	10/25/23 20:19	20

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17.9		2.5	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Barium	258		0.62	0.14	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Beryllium	0.86		0.25	0.035	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Cadmium	0.78		0.25	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Chromium	24.5		0.62	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Copper	38.8		1.2	0.26	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Lead	816		1.2	0.30	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-12 0-2 FT

Lab Sample ID: 480-214037-12

Date Collected: 10/23/23 11:40

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	363	B	0.25	0.040	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Nickel	22.2		6.2	0.29	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Selenium	5.0	U	5.0	0.50	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Silver	0.75	U	0.75	0.25	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1
Zinc	308		2.5	0.80	mg/Kg	☆	10/24/23 11:55	10/26/23 21:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.80		0.021	0.0049	mg/Kg	☆	10/25/23 10:43	10/25/23 13:35	1

Client Sample ID: BH-13 0-3 FT

Lab Sample ID: 480-214037-13

Date Collected: 10/23/23 11:50

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 83.7

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	650	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
3-Methylphenol	3900	U	3900	310	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
4-Methylphenol	3900	U	3900	240	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Acenaphthene	310	J	2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Acenaphthylene	2000	U	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Anthracene	680	J	2000	500	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Benzo[a]anthracene	1600	J	2000	200	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Benzo[a]pyrene	1800	J	2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Benzo[b]fluoranthene	2100		2000	320	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Benzo[g,h,i]perylene	690	J	2000	210	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Benzo[k]fluoranthene	1100	J	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Chrysene	1600	J	2000	450	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Dibenz(a,h)anthracene	2000	U	2000	350	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Dibenzofuran	2000	U	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Fluoranthene	4100		2000	210	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Fluorene	310	J	2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Hexachlorobenzene	2000	U	2000	270	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Indeno[1,2,3-cd]pyrene	650	J	2000	250	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Pentachlorophenol	3900	U	3900	2000	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Phenanthrene	2800		2000	300	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Phenol	2000	U	2000	310	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10
Pyrene	2200		2000	240	ug/Kg	☆	10/24/23 15:51	10/25/23 20:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	39	S1-	54 - 120	10/24/23 15:51	10/25/23 20:44	10
2-Fluorobiphenyl (Surr)	91		60 - 120	10/24/23 15:51	10/25/23 20:44	10
2-Fluorophenol (Surr)	78		52 - 120	10/24/23 15:51	10/25/23 20:44	10
Nitrobenzene-d5 (Surr)	82		53 - 120	10/24/23 15:51	10/25/23 20:44	10
Phenol-d5 (Surr)	74		54 - 120	10/24/23 15:51	10/25/23 20:44	10
p-Terphenyl-d14 (Surr)	79		79 - 130	10/24/23 15:51	10/25/23 20:44	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-13 0-3 FT

Lab Sample ID: 480-214037-13

Date Collected: 10/23/23 11:50

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 83.7

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.9		2.3	0.47	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Barium	378		0.58	0.13	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Beryllium	1.4		0.23	0.033	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Cadmium	1.3		0.23	0.035	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Chromium	20.4		0.58	0.23	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Copper	85.3		1.2	0.24	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Lead	2240		1.2	0.28	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Manganese	733 B		0.23	0.037	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Nickel	17.4		5.8	0.27	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Selenium	2.2 J		4.7	0.47	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Silver	0.70 U		0.70	0.23	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1
Zinc	717		2.3	0.75	mg/Kg	☆	10/24/23 11:55	10/26/23 21:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.5		0.023	0.0053	mg/Kg	☆	10/25/23 10:43	10/25/23 13:39	1

Client Sample ID: BH-14 0-1 FT

Lab Sample ID: 480-214037-14

Date Collected: 10/23/23 12:00

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 86.9

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	62	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
2-Methylphenol	190 U		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
3-Methylphenol	370 U		370	29	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
4-Methylphenol	370 U		370	23	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Acenaphthene	190 U		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Acenaphthylene	92 J		190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Anthracene	79 J		190	48	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Benzo[a]anthracene	450		190	19	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Benzo[a]pyrene	550		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Benzo[b]fluoranthene	810		190	31	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Benzo[g,h,i]perylene	200		190	20	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Benzo[k]fluoranthene	280		190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Chrysene	540		190	43	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Dibenz(a,h)anthracene	69 J		190	34	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Dibenzofuran	160 J		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Fluoranthene	1000		190	20	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Fluorene	190 U		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Hexachlorobenzene	190 U		190	26	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Indeno[1,2,3-cd]pyrene	190		190	24	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Naphthalene	300		190	25	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Pentachlorophenol	370 U		370	190	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Phenanthrene	680		190	28	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Phenol	190 U		190	29	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1
Pyrene	580		190	23	ug/Kg	☆	10/24/23 15:51	10/25/23 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	99		54 - 120	10/24/23 15:51	10/25/23 21:09	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-14 0-1 FT

Lab Sample ID: 480-214037-14

Date Collected: 10/23/23 12:00

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 86.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		60 - 120	10/24/23 15:51	10/25/23 21:09	1
2-Fluorophenol (Surr)	66		52 - 120	10/24/23 15:51	10/25/23 21:09	1
Nitrobenzene-d5 (Surr)	67		53 - 120	10/24/23 15:51	10/25/23 21:09	1
Phenol-d5 (Surr)	69		54 - 120	10/24/23 15:51	10/25/23 21:09	1
p-Terphenyl-d14 (Surr)	75	S1-	79 - 130	10/24/23 15:51	10/25/23 21:09	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		2.4	0.48	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Barium	151		0.60	0.13	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Beryllium	3.1		0.24	0.033	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Cadmium	0.24	U	0.24	0.036	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Chromium	7.7		0.60	0.24	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Copper	16.9		1.2	0.25	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Lead	31.0		1.2	0.29	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Manganese	1240	B	0.24	0.038	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Nickel	13.2		6.0	0.28	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Selenium	0.94	J	4.8	0.48	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Silver	0.72	U	0.72	0.24	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	1
Zinc	20.1		2.4	0.77	mg/Kg	✱	10/24/23 11:55	10/26/23 21:30	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	✱	10/25/23 10:43	10/25/23 13:41	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-214037-1	BH-01 1-3 FT	40 S1-	95	77	80	82	100
480-214037-1 MS	BH-01 1-3 FT	108	88	70	74	73	97
480-214037-1 MSD	BH-01 1-3 FT	96	83	66	71	70	86
480-214037-2	BH-02 0.5-1 FT	23 S1-	68	58	66	59	73 S1-
480-214037-5	BH-05 1-4 FT	46 S1-	67	55	57	55	57 S1-
480-214037-6	BH-06 1-3 FT	30 S1-	80	70	69	70	76 S1-
480-214037-7	BH-07 1-3.5 FT	31 S1-	80	68	71	61	77 S1-
480-214037-9	BH-09 0-2 FT	24 S1-	84	69	71	70	79
480-214037-10	BH-10 0-2 FT	54	80	69	72	67	78 S1-
480-214037-11	BH-11 0-3 FT	33 S1-	89	78	81	73	80
480-214037-12	BH-12 0-2 FT	0 S1-	77	73	80	66	76 S1-
480-214037-13	BH-13 0-3 FT	39 S1-	91	78	82	74	79
480-214037-14	BH-14 0-1 FT	99	86	66	67	69	75 S1-
LCS 480-688906/2-A	Lab Control Sample	121 S1+	93	78	78	79	116
MB 480-688906/1-A	Method Blank	87	94	86	81	85	122

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Lab Sample ID: MB 480-688906/1-A

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	99	U	99	55	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
2-Methylphenol	170	U	170	20	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
3-Methylphenol	330	U	330	26	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
4-Methylphenol	330	U	330	20	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Acenaphthene	170	U	170	25	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Acenaphthylene	170	U	170	22	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Anthracene	170	U	170	42	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Chrysene	170	U	170	38	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Dibenzofuran	170	U	170	20	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Fluoranthene	170	U	170	18	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Fluorene	170	U	170	20	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Hexachlorobenzene	170	U	170	23	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Naphthalene	170	U	170	22	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Pentachlorophenol	330	U	330	170	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Phenanthrene	170	U	170	25	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Phenol	170	U	170	26	ug/Kg		10/24/23 15:51	10/25/23 15:20	1
Pyrene	170	U	170	20	ug/Kg		10/24/23 15:51	10/25/23 15:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	10/24/23 15:51	10/25/23 15:20	1
2-Fluorobiphenyl (Surr)	94		60 - 120	10/24/23 15:51	10/25/23 15:20	1
2-Fluorophenol (Surr)	86		52 - 120	10/24/23 15:51	10/25/23 15:20	1
Nitrobenzene-d5 (Surr)	81		53 - 120	10/24/23 15:51	10/25/23 15:20	1
Phenol-d5 (Surr)	85		54 - 120	10/24/23 15:51	10/25/23 15:20	1
p-Terphenyl-d14 (Surr)	122		79 - 130	10/24/23 15:51	10/25/23 15:20	1

Lab Sample ID: LCS 480-688906/2-A

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1620	634		ug/Kg		39	23 - 120
2-Methylphenol	1620	1270		ug/Kg		78	54 - 120
3-Methylphenol	1620	1280		ug/Kg		79	55 - 120
4-Methylphenol	1620	1280		ug/Kg		79	55 - 120
Acenaphthene	1620	1410		ug/Kg		87	62 - 120
Acenaphthylene	1620	1400		ug/Kg		86	58 - 121
Anthracene	1620	1430		ug/Kg		88	62 - 120
Benzo[a]anthracene	1620	1480		ug/Kg		91	65 - 120
Benzo[a]pyrene	1620	1530		ug/Kg		94	64 - 120
Benzo[b]fluoranthene	1620	1410		ug/Kg		86	64 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Lab Sample ID: LCS 480-688906/2-A

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	1620	1780		ug/Kg		109	45 - 145
Benzo[k]fluoranthene	1620	1340		ug/Kg		82	65 - 120
Chrysene	1620	1470		ug/Kg		91	64 - 120
Dibenz(a,h)anthracene	1620	1710		ug/Kg		105	54 - 132
Dibenzofuran	1620	1390		ug/Kg		85	63 - 120
Fluoranthene	1620	1350		ug/Kg		83	62 - 120
Fluorene	1620	1370		ug/Kg		84	63 - 120
Hexachlorobenzene	1620	1690		ug/Kg		104	60 - 120
Indeno[1,2,3-cd]pyrene	1620	1830		ug/Kg		112	56 - 134
Naphthalene	1620	1340		ug/Kg		82	55 - 120
Pentachlorophenol	3250	2960		ug/Kg		91	51 - 120
Phenanthrene	1620	1460		ug/Kg		90	60 - 120
Phenol	1620	1200		ug/Kg		74	53 - 120
Pyrene	1620	1740		ug/Kg		107	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	121	S1+	54 - 120
2-Fluorobiphenyl (Surr)	93		60 - 120
2-Fluorophenol (Surr)	78		52 - 120
Nitrobenzene-d5 (Surr)	78		53 - 120
Phenol-d5 (Surr)	79		54 - 120
p-Terphenyl-d14 (Surr)	116		79 - 130

Lab Sample ID: 480-214037-1 MS

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: BH-01 1-3 FT

Prep Type: Total/NA

Prep Batch: 688906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	620	U	2090	601	J	ug/Kg	✱	29	13 - 120
2-Methylphenol	1100	U	2090	1600		ug/Kg	✱	76	48 - 120
3-Methylphenol	2000	U	2090	1630	J	ug/Kg	✱	78	50 - 120
4-Methylphenol	2000	U	2090	1630	J	ug/Kg	✱	78	50 - 120
Acenaphthene	1100	U	2090	2160		ug/Kg	✱	103	60 - 120
Acenaphthylene	1100	U	2090	1770		ug/Kg	✱	85	58 - 121
Anthracene	1100	U F2	2090	2310		ug/Kg	✱	111	62 - 120
Benzo[a]anthracene	150	J F1 F2	2090	3390	F1	ug/Kg	✱	155	65 - 120
Benzo[a]pyrene	150	J F1 F2	2090	3040	F1	ug/Kg	✱	138	64 - 120
Benzo[b]fluoranthene	170	J F2	2090	3060		ug/Kg	✱	147	10 - 150
Benzo[g,h,i]perylene	120	J F2	2090	2890		ug/Kg	✱	133	45 - 145
Benzo[k]fluoranthene	1100	U F2	2090	2290		ug/Kg	✱	110	23 - 150
Chrysene	1100	U F1 F2	2090	3550	F1	ug/Kg	✱	170	64 - 120
Dibenz(a,h)anthracene	1100	U	2090	2240		ug/Kg	✱	107	54 - 132
Dibenzofuran	1100	U	2090	1920		ug/Kg	✱	92	62 - 120
Fluoranthene	230	J F1 F2	2090	4840	F1	ug/Kg	✱	221	62 - 120
Fluorene	1100	U F2	2090	2050		ug/Kg	✱	98	63 - 120
Hexachlorobenzene	1100	U	2090	2060		ug/Kg	✱	99	60 - 120
Indeno[1,2,3-cd]pyrene	1100	U F1 F2	2090	2830	F1	ug/Kg	✱	135	56 - 134
Naphthalene	1100	U	2090	1720		ug/Kg	✱	82	46 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Lab Sample ID: 480-214037-1 MS

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: BH-01 1-3 FT

Prep Type: Total/NA

Prep Batch: 688906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	2000	U	4180	2940		ug/Kg	✱	70	25 - 136
Phenanthrene	1100	U F1 F2	2090	4810	F1	ug/Kg	✱	230	60 - 122
Phenol	1100	U	2090	1450		ug/Kg	✱	69	50 - 120
Pyrene	190	J F1 F2	2090	4670	F1	ug/Kg	✱	214	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	108		54 - 120
2-Fluorobiphenyl (Surr)	88		60 - 120
2-Fluorophenol (Surr)	70		52 - 120
Nitrobenzene-d5 (Surr)	74		53 - 120
Phenol-d5 (Surr)	73		54 - 120
p-Terphenyl-d14 (Surr)	97		79 - 130

Lab Sample ID: 480-214037-1 MSD

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: BH-01 1-3 FT

Prep Type: Total/NA

Prep Batch: 688906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	620	U	2070	459	J	ug/Kg	✱	22	13 - 120	27	50
2-Methylphenol	1100	U	2070	1500		ug/Kg	✱	72	48 - 120	6	27
3-Methylphenol	2000	U	2070	1560	J	ug/Kg	✱	75	50 - 120	4	24
4-Methylphenol	2000	U	2070	1560	J	ug/Kg	✱	75	50 - 120	5	24
Acenaphthene	1100	U	2070	1720		ug/Kg	✱	83	60 - 120	23	35
Acenaphthylene	1100	U	2070	1650		ug/Kg	✱	80	58 - 121	7	18
Anthracene	1100	U F2	2070	1800	F2	ug/Kg	✱	87	62 - 120	25	15
Benzo[a]anthracene	150	J F1 F2	2070	2100	F2	ug/Kg	✱	95	65 - 120	47	15
Benzo[a]pyrene	150	J F1 F2	2070	2160	F2	ug/Kg	✱	97	64 - 120	34	15
Benzo[b]fluoranthene	170	J F2	2070	2120	F2	ug/Kg	✱	102	10 - 150	37	15
Benzo[g,h,i]perylene	120	J F2	2070	2240	F2	ug/Kg	✱	103	45 - 145	25	15
Benzo[k]fluoranthene	1100	U F2	2070	1790	F2	ug/Kg	✱	86	23 - 150	25	22
Chrysene	1100	U F1 F2	2070	2200	F2	ug/Kg	✱	106	64 - 120	47	15
Dibenz(a,h)anthracene	1100	U	2070	2020		ug/Kg	✱	98	54 - 132	10	15
Dibenzofuran	1100	U	2070	1730		ug/Kg	✱	84	62 - 120	10	15
Fluoranthene	230	J F1 F2	2070	2520	F2	ug/Kg	✱	111	62 - 120	63	15
Fluorene	1100	U F2	2070	1760	F2	ug/Kg	✱	85	63 - 120	16	15
Hexachlorobenzene	1100	U	2070	1890		ug/Kg	✱	92	60 - 120	8	15
Indeno[1,2,3-cd]pyrene	1100	U F1 F2	2070	2280	F2	ug/Kg	✱	110	56 - 134	21	15
Naphthalene	1100	U	2070	1580		ug/Kg	✱	76	46 - 120	9	29
Pentachlorophenol	2000	U	4140	2560		ug/Kg	✱	62	25 - 136	14	35
Phenanthrene	1100	U F1 F2	2070	2060	F2	ug/Kg	✱	100	60 - 122	80	15
Phenol	1100	U	2070	1430		ug/Kg	✱	69	50 - 120	1	35
Pyrene	190	J F1 F2	2070	2310	F2	ug/Kg	✱	102	61 - 133	67	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		54 - 120
2-Fluorobiphenyl (Surr)	83		60 - 120
2-Fluorophenol (Surr)	66		52 - 120
Nitrobenzene-d5 (Surr)	71		53 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Lab Sample ID: 480-214037-1 MSD

Matrix: Solid

Analysis Batch: 688826

Client Sample ID: BH-01 1-3 FT

Prep Type: Total/NA

Prep Batch: 688906

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Phenol-d5 (Surr)	70		54 - 120
p-Terphenyl-d14 (Surr)	86		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-688835/1-A

Matrix: Solid

Analysis Batch: 689373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	U	1.9	0.39	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Barium	0.49	U	0.49	0.11	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Chromium	0.49	U	0.49	0.19	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Copper	0.97	U	0.97	0.20	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Lead	0.97	U	0.97	0.23	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Manganese	0.0370	J	0.19	0.031	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Nickel	4.9	U	4.9	0.22	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Selenium	3.9	U	3.9	0.39	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Silver	0.58	U	0.58	0.19	mg/Kg		10/24/23 11:55	10/26/23 19:36	1
Zinc	1.9	U	1.9	0.62	mg/Kg		10/24/23 11:55	10/26/23 19:36	1

Lab Sample ID: LCSSRM 480-688835/2-A

Matrix: Solid

Analysis Batch: 689373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688835

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	218	172.0		mg/Kg		78.9	57.8 - 110.1
Barium	388	358.6		mg/Kg		92.4	68.3 - 113.9
Beryllium	165	159.6		mg/Kg		96.7	69.1 - 115.8
Cadmium	118	101.3		mg/Kg		85.8	67.0 - 111.9
Chromium	255	233.5		mg/Kg		91.6	63.5 - 118.4
Copper	135	124.0		mg/Kg		91.8	69.0 - 114.8
Lead	155	156.4		mg/Kg		100.9	67.7 - 119.4
Manganese	446	421.9		mg/Kg		94.6	70.4 - 114.3
Nickel	120	117.4		mg/Kg		97.9	63.2 - 117.5
Selenium	107	89.62		mg/Kg		83.8	58.3 - 121.5
Silver	51.0	45.65		mg/Kg		89.5	64.7 - 120.8
Zinc	406	358.7		mg/Kg		88.4	63.8 - 118.2

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-688959/1-A

Matrix: Solid

Analysis Batch: 689055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 688959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	U	0.020	0.0046	mg/Kg		10/25/23 10:43	10/25/23 13:07	1

Lab Sample ID: LCSSRM 480-688959/2-A ^10

Matrix: Solid

Analysis Batch: 689055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 688959

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	17.1	9.99		mg/Kg		58.4	36.0 - 109.9

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

GC/MS Semi VOA

Analysis Batch: 688826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	8270D	688906
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	8270D	688906
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	8270D	688906
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	8270D	688906
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	8270D	688906
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	8270D	688906
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	8270D	688906
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	8270D	688906
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	8270D	688906
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	8270D	688906
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	8270D	688906
MB 480-688906/1-A	Method Blank	Total/NA	Solid	8270D	688906
LCS 480-688906/2-A	Lab Control Sample	Total/NA	Solid	8270D	688906
480-214037-1 MS	BH-01 1-3 FT	Total/NA	Solid	8270D	688906
480-214037-1 MSD	BH-01 1-3 FT	Total/NA	Solid	8270D	688906

Prep Batch: 688906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	3550C	
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	3550C	
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	3550C	
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	3550C	
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	3550C	
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	3550C	
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	3550C	
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	3550C	
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	3550C	
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	3550C	
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	3550C	
MB 480-688906/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-688906/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-214037-1 MS	BH-01 1-3 FT	Total/NA	Solid	3550C	
480-214037-1 MSD	BH-01 1-3 FT	Total/NA	Solid	3550C	

Metals

Prep Batch: 688835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	3050B	
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	3050B	
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	3050B	
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	3050B	
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	3050B	
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	3050B	
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	3050B	
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	3050B	
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	3050B	
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	3050B	
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	3050B	
MB 480-688835/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-688835/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Metals

Prep Batch: 688959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	7471B	
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	7471B	
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	7471B	
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	7471B	
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	7471B	
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	7471B	
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	7471B	
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	7471B	
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	7471B	
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	7471B	
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	7471B	
MB 480-688959/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-688959/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 689055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	7471B	688959
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	7471B	688959
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	7471B	688959
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	7471B	688959
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	7471B	688959
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	7471B	688959
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	7471B	688959
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	7471B	688959
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	7471B	688959
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	7471B	688959
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	7471B	688959
MB 480-688959/1-A	Method Blank	Total/NA	Solid	7471B	688959
LCSSRM 480-688959/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	688959

Analysis Batch: 689373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	6010C	688835
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	6010C	688835
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	6010C	688835
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	6010C	688835
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	6010C	688835
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	6010C	688835
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	6010C	688835
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	6010C	688835
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	6010C	688835
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	6010C	688835
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	6010C	688835
MB 480-688835/1-A	Method Blank	Total/NA	Solid	6010C	688835
LCSSRM 480-688835/2-A	Lab Control Sample	Total/NA	Solid	6010C	688835

General Chemistry

Analysis Batch: 688908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-1	BH-01 1-3 FT	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

General Chemistry (Continued)

Analysis Batch: 688908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-214037-2	BH-02 0.5-1 FT	Total/NA	Solid	Moisture	
480-214037-5	BH-05 1-4 FT	Total/NA	Solid	Moisture	
480-214037-6	BH-06 1-3 FT	Total/NA	Solid	Moisture	
480-214037-7	BH-07 1-3.5 FT	Total/NA	Solid	Moisture	
480-214037-9	BH-09 0-2 FT	Total/NA	Solid	Moisture	
480-214037-10	BH-10 0-2 FT	Total/NA	Solid	Moisture	
480-214037-11	BH-11 0-3 FT	Total/NA	Solid	Moisture	
480-214037-12	BH-12 0-2 FT	Total/NA	Solid	Moisture	
480-214037-13	BH-13 0-3 FT	Total/NA	Solid	Moisture	
480-214037-14	BH-14 0-1 FT	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-01 1-3 FT

Date Collected: 10/23/23 08:45

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-01 1-3 FT

Date Collected: 10/23/23 08:45

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-1

Matrix: Solid

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		5	688826	JMM	EET BUF	10/25/23 17:00
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 20:34
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:24

Client Sample ID: BH-02 0.5-1 FT

Date Collected: 10/23/23 09:00

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-02 0.5-1 FT

Date Collected: 10/23/23 09:00

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-2

Matrix: Solid

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		10	688826	JMM	EET BUF	10/25/23 17:24
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 20:48
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:25

Client Sample ID: BH-05 1-4 FT

Date Collected: 10/23/23 09:55

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-05 1-4 FT

Lab Sample ID: 480-214037-5

Date Collected: 10/23/23 09:55

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		1	688826	JMM	EET BUF	10/25/23 17:49
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 20:51
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:26

Client Sample ID: BH-06 1-3 FT

Lab Sample ID: 480-214037-6

Date Collected: 10/23/23 10:10

Matrix: Solid

Date Received: 10/24/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-06 1-3 FT

Lab Sample ID: 480-214037-6

Date Collected: 10/23/23 10:10

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		5	688826	JMM	EET BUF	10/25/23 18:14
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 20:55
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:27

Client Sample ID: BH-07 1-3.5 FT

Lab Sample ID: 480-214037-7

Date Collected: 10/23/23 10:30

Matrix: Solid

Date Received: 10/24/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-07 1-3.5 FT

Lab Sample ID: 480-214037-7

Date Collected: 10/23/23 10:30

Matrix: Solid

Date Received: 10/24/23 09:00

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		10	688826	JMM	EET BUF	10/25/23 18:39
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 20:58
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:29

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-09 0-2 FT

Date Collected: 10/23/23 11:10

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-09 0-2 FT

Date Collected: 10/23/23 11:10

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-9

Matrix: Solid

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		5	688826	JMM	EET BUF	10/25/23 19:04
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:02
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:30

Client Sample ID: BH-10 0-2 FT

Date Collected: 10/23/23 11:20

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-10 0-2 FT

Date Collected: 10/23/23 11:20

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-10

Matrix: Solid

Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		10	688826	JMM	EET BUF	10/25/23 19:29
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:05
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:31

Client Sample ID: BH-11 0-3 FT

Date Collected: 10/23/23 11:30

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-11 0-3 FT

Date Collected: 10/23/23 11:30

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-11

Matrix: Solid

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		10	688826	JMM	EET BUF	10/25/23 19:54
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:09
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:34

Client Sample ID: BH-12 0-2 FT

Date Collected: 10/23/23 11:40

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-12 0-2 FT

Date Collected: 10/23/23 11:40

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-12

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		20	688826	JMM	EET BUF	10/25/23 20:19
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:13
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:35

Client Sample ID: BH-13 0-3 FT

Date Collected: 10/23/23 11:50

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-13 0-3 FT

Date Collected: 10/23/23 11:50

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-13

Matrix: Solid

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		10	688826	JMM	EET BUF	10/25/23 20:44
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:16
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:39

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Client Sample ID: BH-14 0-1 FT

Date Collected: 10/23/23 12:00

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	688908	JMM	EET BUF	10/24/23 15:53

Client Sample ID: BH-14 0-1 FT

Date Collected: 10/23/23 12:00

Date Received: 10/24/23 09:00

Lab Sample ID: 480-214037-14

Matrix: Solid

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			688906	SJM	EET BUF	10/24/23 15:51
Total/NA	Analysis	8270D		1	688826	JMM	EET BUF	10/25/23 21:09
Total/NA	Prep	3050B			688835	MP	EET BUF	10/24/23 11:55
Total/NA	Analysis	6010C		1	689373	LMH	EET BUF	10/26/23 21:30
Total/NA	Prep	7471B			688959	NVK	EET BUF	10/25/23 10:43
Total/NA	Analysis	7471B		1	689055	NVK	EET BUF	10/25/23 13:41

Laboratory References:

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

Accreditation/Certification Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

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: 273 Hickory Street Plus

Job ID: 480-214037-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: 273 Hickory Street Plus

Job ID: 480-214037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-214037-1	BH-01 1-3 FT	Solid	10/23/23 08:45	10/24/23 09:00
480-214037-2	BH-02 0.5-1 FT	Solid	10/23/23 09:00	10/24/23 09:00
480-214037-5	BH-05 1-4 FT	Solid	10/23/23 09:55	10/24/23 09:00
480-214037-6	BH-06 1-3 FT	Solid	10/23/23 10:10	10/24/23 09:00
480-214037-7	BH-07 1-3.5 FT	Solid	10/23/23 10:30	10/24/23 09:00
480-214037-9	BH-09 0-2 FT	Solid	10/23/23 11:10	10/24/23 09:00
480-214037-10	BH-10 0-2 FT	Solid	10/23/23 11:20	10/24/23 09:00
480-214037-11	BH-11 0-3 FT	Solid	10/23/23 11:30	10/24/23 09:00
480-214037-12	BH-12 0-2 FT	Solid	10/23/23 11:40	10/24/23 09:00
480-214037-13	BH-13 0-3 FT	Solid	10/23/23 11:50	10/24/23 09:00
480-214037-14	BH-14 0-1 FT	Solid	10/23/23 12:00	10/24/23 09:00

Chain of Custody Record

Client Information		Lab PM: Beninati, John		Carrier Tracking No(s): 480-188860-39793.1	
Client Contact: Mr. Peter Gorton		E-Mail: John.Beninati@eteurofinsus.com		State of Origin:	
Company: Brydges Engineering in Environment & Energy DPC		PWSID:		Page 1 of 2	
Address: 960 Busti Ave Suite B-150		Due Date Requested: 10/01/2010		Job #:	
City: Buffalo		TAT Requested (days):		Preservation Codes:	
State, Zip: NY, 14213		Compliance Project: Yes No		A - HCL	
Phone: 716-308-8220(Tel)		Purchase Order not required		B - NaOH	
Email: pgorton@be3corp.com		WO #:		C - Zn Acetate	
Project Name: 2773 Hickory Street PLW		Project #: 48026943		D - Nitric Acid	
Site:		SSOW#:		E - NaHSO4	
				F - MeOH	
				G - Amchlor	
				H - Ascorbic Acid	
				I - Ice	
				J - DI Water	
				K - EDTA	
				L - EDA	
				M - Hexane	
				N - None	
				O - AshNaO2	
				P - Na2O4S	
				Q - Na2SO3	
				R - Na2SO4	
				S - H2SO4	
				T - TSP Dodecahydrate	
				U - Acetone	
				V - MCAA	
				W - pH 4-5	
				Y - Trizma	
				Z - other (specify)	
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
BH-01 1-3 FT		X		X	
BH-02 0.5-1 FT		X		X	
BH-03 1-3 FT		X		X	
BH-04 0.5-1.5 FT		X		X	
BH-05 1-4 FT		X		X	
BH-06 1-3 FT		X		X	
BH-07 1-3.5 FT		X		X	
BH-08 0-1.5 FT		X		X	
BH-09 0-2 FT		X		X	
BH-10 0-2 FT		X		X	
BH-11 0-3 FT		X		X	
Possible Hazard Identification		Matrix		Sample Type	
Non-Hazard		Solid		G=Grab	
Flammable		Solid		G=Comp	
Deliverable Requested: I, II, III, IV, Other (specify)		Solid		G=grab	
Empty Kit Relinquished by:		Solid		G=grab	
Relinquished by:		Solid		G=grab	
Relinquished by:		Solid		G=grab	
Relinquished by:		Solid		G=grab	
Custody, Seals Intact:		Solid		G=grab	
Yes No		Solid		G=grab	
Custody Seal No.:		Solid		G=grab	
1417 #1 ICE		Solid		G=grab	

Chain of Custody Record

eurofins

Environmental Testing

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

Client Information		Lab PM Beninati, John		Carrier Tracking No(s)		COC No 480-184606-39065 3	
Client Contact Mr. Peter Gorton		E-Mail John.Beninati@eurofins.com		State of Origin		Page 2 of 2	
Company Brydges Engineering in Environment & Energy DPC		PWSID		Job #		Job #	
Address 960 Busti Ave Suite B-150		Due Date Requested:		Analysis Requested		Preservation Codes:	
City Buffalo		TAT Requested (days):		Total Number of Containers		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State Zip NY 14213		Compliance Project: ☐ Yes ☒ No		8012B - Part 375 Cyanide		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
Phone 716-308-8220(Tel)		Purchase Order not required		8012A - Part 375 PCBs			
Email pgorton@be3corp.com		Project # 48026426		8012C - Part 375 VOCs (L, T, T, T)			
Project Name 56 Main Street - Lockport, NY 273 Hackberry St Bus		SSOW#		8012D - Part 375 VOCs			
Site		Sample Date		8012E - Part 375 VOCs (L, T, T, T)			
Sample Identification		Sample Time		8012F - Part 375 VOCs (L, T, T, T)			
BH-12 0-2 FT		1140		8012G - Part 375 VOCs (L, T, T, T)			
BH-13 0-3 FT		1150		8012H - Part 375 VOCs (L, T, T, T)			
BH-14 0-1 FT		1200		8012I - Part 375 VOCs (L, T, T, T)			
BH-15 0-1 FT		1210		8012J - Part 375 VOCs (L, T, T, T)			
				8012K - Part 375 VOCs (L, T, T, T)			
				8012L - Part 375 VOCs (L, T, T, T)			
				8012M - Part 375 VOCs (L, T, T, T)			
				8012N - Part 375 VOCs (L, T, T, T)			
				8012O - Part 375 VOCs (L, T, T, T)			
				8012P - Part 375 VOCs (L, T, T, T)			
				8012Q - Part 375 VOCs (L, T, T, T)			
				8012R - Part 375 VOCs (L, T, T, T)			
				8012S - Part 375 VOCs (L, T, T, T)			
				8012T - Part 375 VOCs (L, T, T, T)			
				8012U - Part 375 VOCs (L, T, T, T)			
				8012V - Part 375 VOCs (L, T, T, T)			
				8012W - Part 375 VOCs (L, T, T, T)			
				8012X - Part 375 VOCs (L, T, T, T)			
				8012Y - Part 375 VOCs (L, T, T, T)			
				8012Z - Part 375 VOCs (L, T, T, T)			
				8012AA - Part 375 VOCs (L, T, T, T)			
				8012AB - Part 375 VOCs (L, T, T, T)			
				8012AC - Part 375 VOCs (L, T, T, T)			
				8012AD - Part 375 VOCs (L, T, T, T)			
				8012AE - Part 375 VOCs (L, T, T, T)			
				8012AF - Part 375 VOCs (L, T, T, T)			
				8012AG - Part 375 VOCs (L, T, T, T)			
				8012AH - Part 375 VOCs (L, T, T, T)			
				8012AI - Part 375 VOCs (L, T, T, T)			
				8012AJ - Part 375 VOCs (L, T, T, T)			
				8012AK - Part 375 VOCs (L, T, T, T)			
				8012AL - Part 375 VOCs (L, T, T, T)			
				8012AM - Part 375 VOCs (L, T, T, T)			
				8012AN - Part 375 VOCs (L, T, T, T)			
				8012AO - Part 375 VOCs (L, T, T, T)			
				8012AP - Part 375 VOCs (L, T, T, T)			
				8012AQ - Part 375 VOCs (L, T, T, T)			
				8012AR - Part 375 VOCs (L, T, T, T)			
				8012AS - Part 375 VOCs (L, T, T, T)			
				8012AT - Part 375 VOCs (L, T, T, T)			
				8012AU - Part 375 VOCs (L, T, T, T)			
				8012AV - Part 375 VOCs (L, T, T, T)			
				8012AW - Part 375 VOCs (L, T, T, T)			
				8012AX - Part 375 VOCs (L, T, T, T)			
				8012AY - Part 375 VOCs (L, T, T, T)			
				8012AZ - Part 375 VOCs (L, T, T, T)			
				8012BA - Part 375 VOCs (L, T, T, T)			
				8012BB - Part 375 VOCs (L, T, T, T)			
				8012BC - Part 375 VOCs (L, T, T, T)			
				8012BD - Part 375 VOCs (L, T, T, T)			
				8012BE - Part 375 VOCs (L, T, T, T)			
				8012BF - Part 375 VOCs (L, T, T, T)			
				8012BG - Part 375 VOCs (L, T, T, T)			
				8012BH - Part 375 VOCs (L, T, T, T)			
				8012BI - Part 375 VOCs (L, T, T, T)			
				8012BJ - Part 375 VOCs (L, T, T, T)			
				8012BK - Part 375 VOCs (L, T, T, T)			
				8012BL - Part 375 VOCs (L, T, T, T)			
				8012BM - Part 375 VOCs (L, T, T, T)			
				8012BN - Part 375 VOCs (L, T, T, T)			
				8012BO - Part 375 VOCs (L, T, T, T)			
				8012BP - Part 375 VOCs (L, T, T, T)			
				8012BQ - Part 375 VOCs (L, T, T, T)			
				8012BR - Part 375 VOCs (L, T, T, T)			
				8012BS - Part 375 VOCs (L, T, T, T)			
				8012BT - Part 375 VOCs (L, T, T, T)			
				8012BU - Part 375 VOCs (L, T, T, T)			
				8012BV - Part 375 VOCs (L, T, T, T)			
				8012BW - Part 375 VOCs (L, T, T, T)			
				8012BX - Part 375 VOCs (L, T, T, T)			
				8012BY - Part 375 VOCs (L, T, T, T)			
				8012BZ - Part 375 VOCs (L, T, T, T)			
				8012CA - Part 375 VOCs (L, T, T, T)			
				8012CB - Part 375 VOCs (L, T, T, T)			
				8012CC - Part 375 VOCs (L, T, T, T)			
				8012CD - Part 375 VOCs (L, T, T, T)			
				8012CE - Part 375 VOCs (L, T, T, T)			
				8012CF - Part 375 VOCs (L, T, T, T)			
				8012CG - Part 375 VOCs (L, T, T, T)			
				8012CH - Part 375 VOCs (L, T, T, T)			
				8012CI - Part 375 VOCs (L, T, T, T)			
				8012CJ - Part 375 VOCs (L, T, T, T)			
				8012CK - Part 375 VOCs (L, T, T, T)			
				8012CL - Part 375 VOCs (L, T, T, T)			
				8012CM - Part 375 VOCs (L, T, T, T)			
				8012CN - Part 375 VOCs (L, T, T, T)			
				8012CO - Part 375 VOCs (L, T, T, T)			
				8012CP - Part 375 VOCs (L, T, T, T)			
				8012CQ - Part 375 VOCs (L, T, T, T)			
				8012CR - Part 375 VOCs (L, T, T, T)			
				8012CS - Part 375 VOCs (L, T, T, T)			
				8012CT - Part 375 VOCs (L, T, T, T)			
				8012CU - Part 375 VOCs (L, T, T, T)			
				8012CV - Part 375 VOCs (L, T, T, T)			
				8012CW - Part 375 VOCs (L, T, T, T)			
				8012CX - Part 375 VOCs (L, T, T, T)			
				8012CY - Part 375 VOCs (L, T, T, T)			
				8012CZ - Part 375 VOCs (L, T, T, T)			
				8012DA - Part 375 VOCs (L, T, T, T)			
				8012DB - Part 375 VOCs (L, T, T, T)			
				8012DC - Part 375 VOCs (L, T, T, T)			
				8012DD - Part 375 VOCs (L, T, T, T)			
				8012DE - Part 375 VOCs (L, T, T, T)			
				8012DF - Part 375 VOCs (L, T, T, T)			
				8012DG - Part 375 VOCs (L, T, T, T)			
				8012DH - Part 375 VOCs (L, T, T, T)			
				8012DI - Part 375 VOCs (L, T, T, T)			
				8012DJ - Part 375 VOCs (L, T, T, T)			
				8012DK - Part 375 VOCs (L, T, T, T)			
				8012DL - Part 375 VOCs (L, T, T, T)			
				8012DM - Part 375 VOCs (L, T, T, T)			
				8012DN - Part 375 VOCs (L, T, T, T)			
				8012DO - Part 375 VOCs (L, T, T, T)			
				8012DP - Part 375 VOCs (L, T, T, T)			
				8012DQ - Part 375 VOCs (L, T, T, T)			
				8012DR - Part 375 VOCs (L, T, T, T)			
				8012DS - Part 375 VOCs (L, T, T, T)			
				8012DT - Part 375 VOCs (L, T, T, T)			
				8012DU - Part 375 VOCs (L, T, T, T)			
				8012DV - Part 375 VOCs (L, T, T, T)			
				8012DW - Part 375 VOCs (L, T, T, T)			
				8012DX - Part 375 VOCs (L, T, T, T)			
				8012DY - Part 375 VOCs (L, T, T, T)			
				8012DZ - Part 375 VOCs (L, T, T, T)			
				8012EA - Part 375 VOCs (L, T, T, T)			
				8012EB - Part 375 VOCs (L, T, T, T)			
				8012EC - Part 375 VOCs (L, T, T, T)			
				8012ED - Part 375 VOCs (L, T, T, T)			
				8012EE - Part 375 VOCs (L, T, T, T)			
				8012EF - Part 375 VOCs (L, T, T, T)			
				8012EG - Part 375 VOCs (L, T, T, T)			
				8012EH - Part 375 VOCs (L, T, T, T)			
				8012EI - Part 375 VOCs (L, T, T, T)			
				8012EJ - Part 375 VOCs (L, T, T, T)			
				8012EK - Part 375 VOCs (L, T, T, T)			
				8012EL - Part 375 VOCs (L, T, T, T)			
				8012EM - Part 375 VOCs (L, T, T, T)			
				8012EN - Part 375 VOCs (L, T, T, T)			
				8012EO - Part 375 VOCs (L, T, T, T)			
				8012EP - Part 375 VOCs (L, T, T, T)			
				8012EQ - Part 375 VOCs (L, T, T, T)			
				8012ER - Part 375 VOCs (L, T, T, T)			
				8012ES - Part 375 VOCs (L, T, T, T)			
				8012ET - Part 375 VOCs (L, T, T, T)			
				8012EU - Part 375 VOCs (L, T, T, T)			
				8012EV - Part 375 VOCs (L, T, T, T)			
				8012EW - Part 375 VOCs (L, T, T, T)			
				8012EX - Part 375 VOCs (L, T, T, T)			
				8012EY - Part 375 VOCs (L, T, T, T)			
				8012EZ - Part 375 VOCs (L, T, T, T)			
				8012FA - Part 375 VOCs (L, T, T, T)			
				8012FB - Part 375 VOCs (L, T, T, T)			
				8012FC - Part 375 VOCs (L, T, T, T)			
				8012FD - Part 375 VOCs (L, T, T, T)			
				8012FE - Part 375 VOCs (L, T, T, T)			
				8012FF - Part 375 VOCs (L, T, T, T)			
				8012FG - Part 375 VOCs (L, T, T, T)			
				8012FH - Part 375 VOCs (L, T, T, T)			
				8012FI - Part 375 VOCs (L, T, T, T)			
				8012FJ - Part 375 VOCs (L, T, T, T)			
				8012FK - Part 375 VOCs (L, T, T, T)			
				8012FL - Part 375 VOCs (L, T, T, T)			
				8012FM - Part 375 VOCs (L, T, T, T)			
				8012FN - Part 375 VOCs (L, T, T, T)			
				8012FO - Part 375 VOCs (L, T, T, T)			
				8012FP - Part 375 VOCs (L, T, T, T)			
				8012FQ - Part 375 VOCs (L, T, T, T)			
				8012FR - Part 375 VOCs (L, T, T, T)			
				8012FS - Part 375 VOCs (L, T, T, T)			
				8012FT - Part 375 VOCs (L, T, T, T)			
				8012FU - Part 375 VOCs (L, T, T, T)			
				8012FV - Part 375 VOCs (L, T, T, T)			
				8012FW - Part 375 VOCs (L, T, T, T)			
				8012FX - Part 375 VOCs (L, T, T, T)			
				8012FY - Part 375 VOCs (L, T, T, T)			
				8012FZ - Part 375 VOCs (L, T, T, T)			
				8012GA - Part 375 VOCs (L, T, T, T)			
				8012GB - Part 375 VOCs (L, T, T, T)			
				8012GC - Part 375 VOCs (L, T, T, T)			
				8012GD - Part 375 VOCs (L, T, T, T)			
				8012GE - Part 375 VOCs (L, T, T, T)			

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-214037-1

Login Number: 214037

List Number: 1

Creator: Kolb, Chris M

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.	False	coc not relinquished
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.	N/A	
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	brydges
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	