

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Eleven (11) PARCELS BLOCK OF WASHINGTON, E. SECOND & PARK CITY OF DUNKIRK, CHAUTAUQUA COUNTY, NEW YORK

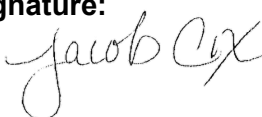
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1.0 INTRODUCTION

Brydges Engineering in Environment and Energy (BE3) completed a Phase II Environmental Site Assessment (ESA) for the 11 parcels on the block of Washington, East Second, and Park Streets, Dunkirk, Chautauqua 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).

This assessment included an investigation across the property (refer to **Figure 2**). The purpose of the assessment was to obtain information and data for assessing potential environmental impacts at the property from REC/BERs identified during the Phase I environmental site assessment and to determine if the property is 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 property includes eleven separate parcels within the city block noted above. Some of these parcels are currently vacant and others include partially occupied former factory buildings. A summary of the background of the eleven parcels follows:

220 Washington (SBL #79.57-1-79) – The irregularly-shaped property is approximately 0.42-acres (Front 87 feet, depth 210 feet) and contains a 19,172 square foot brick and wood building built in 1900 and a 2,784 square foot separate shed-machine shop wood building built in 1960. The main brick structure contains two floors with no basement. It shares a common wall with the adjacent 208-214 Washington Avenue subject property to the north. Raised rail tracks are located to the south which separate the property from Third Street which is further south. The parcel abuts Washington Street to the west and further west across Washington Street is the Fredonia Technology Incubator and ECCB. The subject parcels 215 Park Avenue and Park Avenue Rear abut this property to the east. Park Avenue is further East. Currently the building is occupied by the Paradis Fence & Flag company. The structure contains floor tiles and florescent lights throughout. The first floor contains an active workshop and storage for tools, equipment, miscellaneous materials, and vehicles. The separate shed building contains mostly lumber and tools/equipment. Various miscellaneous equipment, lumber and metal fencing is located in areas around the building. Two large cylinder gas tanks are located in the rear of the building. Some small quantities of maintenance chemicals, paints and spray cans are in the buildings. Historically this property was used for wholesale auto parts in the 1960s to the 1990s, auto sales and service in the 1940s and as part of the adjoining 208-214 Washington Street for the Mulholland company factory - makers of roadside dinning cars, automobile body parts, carriages, and springs from the late 1800s through at least the 1930s.

The Mulholland firm constructed a new traditional brick and wood frame plant on Washington Street in 1886. The firm changed its line of production with the changing times. Its original

specialization was in manufacturing carriage springs, and later it diversified into the manufacture of component parts for automobiles (springs, drive shafts, and rubber tires). For a few years around 1910, complete automobiles were being assembled but from 1915 to 1925, it produced only car bodies. Around 1930, the firm shifted to the manufacture of streamlined roadside diners (steel-framed dining cars, 30 feet long and 10 feet wide). The Mulholland company continued through 1933, but then disappeared from the records, perhaps a victim of the Depression. After 1935, the factory was used for the manufacture of malted milk and storage of wholesale groceries.

208-214 Washington (SBL#79.57-1-81) - The irregularly shaped property is approximately 0.31-acres (Front 73 feet, depth 180 feet) and contains a 13,393 square foot brick and wood building built in 1900. The brick structure shares a common wall with 220 Washington Ave parcel and is a three-story row building, generally constructed of brick and wood. The structure is currently vacant and in very poor condition. The first floor of the building was rotted exposing the earthen floor beneath the building. The second and third floors are mostly collapsed and were not entered. The western portion of the building fronts Washington Avenue and abuts the sidewalk. The building occupies most of the property; however, the eastern portion of the Site is unimproved and abuts the East Second Street parcel (79.57-1-2) to the east and the 220 Washington Street parcel to the southeast. The Chadwick Bay Lofts are located adjacent to the north at 21 East Second Street. The parcel abuts Washington Street to the west and further west across Washington Street is the Fredonia Technology Incubator and ECCB. Historically, as part of the adjoining 208-214 Washington Street parcel, this parcel was the Mulholland company factory from the late 1800s through at least 1934. After 1935, this portion of the factory was used for the manufacture of malted milk and storage of wholesale groceries and may have been associated with auto parts warehousing and sales in the 1960s through the 1990s.

Park Ave. Rear (SBL #79.57-1-80) – The irregularly shaped property is approximately 0.02-acres (Front 20 feet, depth 45 feet) vacant unimproved parcel. The western portion of the parcel is adjacent to the 220 and 208-214 Washington Avenue properties. The north, south and eastern sides of the property border the subject parcels East Second Street and 215 Park Avenue. Historically, this property was part of the Burns Coal & Building Supply Company which was located on this and adjacent properties during the 1940s through the 1960s. Prior to that time there may have been a residential building on or partially on the property and the property may have been associated with the Mulholland Company.

East Second (SBL #79.57-1-2) - The irregularly shaped property is an approximately 0.08-acre (Front 40 feet, depth 85 feet) vacant unimproved parcel. The western portion of the parcel is adjacent to the subject 208-214 Washington Avenue property and The Chadwick Bay Lofts. City of Dunkirk Housing Authority residential apartments/row houses are located adjacent north at 35 East Second Street. The southern portion of the property is adjacent to the eastern end of the 208-214 Washington Avenue subject parcel. The eastern sides of the property border the subject parcels East Second Street (79.57-1-73) subject property. Historically, this property was part of the Burns Coal & Building Supply Company which was located on this and adjacent properties during the 1940s through the 1960s. Rail tracks and coal sheds may have also been associated with this property.

East Second Street (SBL #79.57-1-73) - The irregularly shaped property is approximately 0.06-acres (front 30 feet, depth 89 feet). It currently contains some vacant unimproved areas and sidewalk and parking areas. This parcel is divided into two separate land areas by the subject parcel East Second (79.57-1-2). The western portion of the parcel is adjacent to the subject 208-214 Washington Avenue property and The Chadwick Bay Lofts as well as 208-220 Washington Avenue parcels. City of Dunkirk Housing Authority residential apartments/row houses are located adjacent north at 35 East Second Street. The southern portion of the property is adjacent to the subject parcel 215 Park Avenue (79.57-1-75). The eastern sides of the property border the subject parcel subject property 215 Park Avenue (79.57-1-75), Park Avenue and Park Ave. (79.57-1-72). Historically, this property was part of the Burns Coal & Building Supply Company which was located on this and adjacent properties during the 1940s through the 1960s. Rail tracks and coal sheds may have also been associated with this property.

215 Park Avenue (SBL #79.57-1-75) - The irregularly shaped property is approximately 0.14-acres (front 41feet, depth 150 feet) and is a partially vacant parcel with a parking area. The western portion of the parcel is adjacent to the subject 220 Washington Avenue property. Elevated rail tracks are located south of the subject parcel and undeveloped vacant subject properties are north and east. Historically, this property was part of the Burns Coal & Building Supply Company which was located on this and adjacent properties during the 1940s through the 1960s. Rail tracks and coal sheds may have also been associated with this property.

211 Park Avenue (SBL #79.57-1-74) - The triangle shaped property is approximately 0.1-acre (front 61 feet, depth 67 feet) and is a vacant/undeveloped parcel. The western and southern portion of the subject parcel is adjacent to the subject East Second Street (79.57-1-70) property. Park Street is adjacent to the east and the subject Park Ave. (79.57-1-72) is adjacent north. Historically, this property contained a bottle warehouse in the 1960s, an Ice Cream Depot in the 1930s and 1940s, a sugar warehouse in the 1920s and a tin shop in the late 1800s. Rail tracks cross the subject parcel during those times as well.

Park Avenue (SBL #79.57-1-72) - The irregularly shaped property is an approximately 0.13-acre (front 45 feet, depth 125 feet) vacant unimproved parcel. The property abuts Park Avenue to the east and is surrounded by other subject parcels to the north, south and west. Historically, the western part of this parcel was part of the Burns Coal & Building Supply Company which was located on this and adjacent properties during the 1940s through the 1960s. The eastern portion of this parcel contained a bottle warehouse in the 1960s, an Ice Cream Depot in the 1930s and 1940s, a sugar warehouse in the 1920s and a tin shop in the late 1800s.

207 Park Avenue (SBL #79.57-1-71) - The rectangular shaped property is an approximately 0.05-acre (front 24 feet, depth 90 feet) vacant, unimproved parcel. The property abuts Park Avenue to the east, the subject parcel East Second Street (79.57-1-69) to the north and by other subject parcels to the south and west. Historically, this property appears to have been residential and contained residential structures with rail lines to the west.

East Second Street (SBL #79.57-1-70) - The irregularly shaped property is an approximately 0.04-acre (front 30 feet, depth 55 feet) vacant, unimproved parcel with a sidewalk running north

south through the center. The property abuts The City of Dunkirk/Housing Authority row apartments to the north, 207 Park Avenue (SBL #79.57-1-71) to the south and the subject parcels 207 Park Avenue (SBL #79.57-1-71) and East Second Street (79.57-1-69) to the east. Other subject parcels are located to the west and south. Historically, this property contained rail tracks on its western end and was vacant and may have been residential on its eastern end.

East Second Street (SBL #79.57-1-69) - The rectangular shaped sliver is an approximately 0.01-acre (front 90 feet, depth 5 feet) vacant, unimproved parcel. The property abuts the City of Dunkirk/Housing Authority row apartments to the north, 207 Park Avenue (SBL #79.57-1-71) to the south, Park Avenue to the east, and the subject parcel East Second Street (SBL #79.57-1-70) to the west. Historically, this property appears to have been residential and contained residential structures.

1.1.2 Physical Setting

The properties are in a commercial and mixed residential area of the City of Dunkirk, New York, about 350 yards, and two city blocks south of Lake Erie and about 0.17-miles northeast of Dunkirk City Hall (see Figure 1). The general middle of the parcels is located at latitude 42° 29' 09.25" N; Longitude 79° 19' 57.78" W. The immediate area around the property is mainly mixed urban commercial use and residential.

1.1.3 Historical Use

Historically the 208-214-220 Washington Avenue properties were used for wholesale auto parts in the 1960s to the 1990s, auto sales and service in the 1940s and for the Mulholland company factory - makers of roadside dinning cars, automobile body parts, carriages and springs from the late 1800s through at least the 1930s.

The Mulholland firm constructed a new traditional brick and wood frame plant on Washington Street in 1886. The firm changed its line of production with the changing times. Its original specialization was in manufacturing carriage springs, and later it diversified into the manufacture of component parts for automobiles (springs, drive shafts, and rubber tires). For a few years around 1910, complete automobiles were being assembled but from 1915 to 1925, it produced only car bodies. Around 1930, the firm shifted to the manufacture of streamlined roadside diners (steel-framed dining cars, 30 feet long and 10 feet wide). The Mulholland company continued through 1933, but then disappeared from the records, perhaps a victim of the Depression. After 1935, the factory was used for the manufacture of malted milk and storage of wholesale groceries.

Most of the other parcels in the center of the subject area historically were part of the Burns Coal & Building Supply Company during the 1940s through the 1960s and the parcels in the center of the subject property had a series of rail tracks. Some of the parcels along Park Avenue in the east-center and southeastern part of the subject property historically contained a bottle warehouse in the 1960s, an Ice Cream Depot in the 1930s and 1940s, a sugar warehouse in the 1920s and a tin shop in the late 1800s.

1.1.4 Contaminants of Concern

The history and use of the subject properties suggest there was potential contaminants of concern associated with fill material and past manufacturing/commercial use as well as petroleum use and storage. Potential contaminants include metals, polycyclic aromatic hydrocarbons (PAHs), petroleum related compounds, solvents, and PCBs. 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. These are frequently also found in railroad fill base material.

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 based on findings during the Phase I environmental site assessment and to determine if the property may be eligible for the BCP. This was completed by performing a field assessment of near surface and subsurface soil. The scope included subsurface soil screening and sampling to investigate subsurface conditions at the properties. Previous specific findings during the Phase I environmental site assessment are as follows:

The Phase I environmental site assessment has revealed the following recognized environmental conditions (RECs) in connection with the subject properties:

- manufacturing of component parts for automobiles (springs, drive shafts, and rubber tires) and later of manufacturing car bodies and dinners at the 208-204-220 Washington Avenue parcels.
- coal storage, possible refining and rail use as well as other commercial uses on some of the eleven parcels.
- Identification of fill materials across most of the properties

Note, a previous Phase II ESA was completed on the 208-214 Washington Avenue under a separate investigation completed by others. The data from that investigation is also summarized in this report.

2.0 FIELD INVESTIGATIONS

The BE3 subsurface assessment field work was completed on January 13, 2023. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the properties. SJB Services 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 seventeen soil borings, designated Borings BH1 through BH17, were advanced at specific locations across the property (see **Figure 2**). A total of eighteen soil samples and one groundwater grab sample was collected. Soil borings were field located to assess the subsurface specific to previous property use and to ensure coverage across all eleven parcels. Boring depths ranged from 4 to 12 feet below ground surface (bgs) with most advanced to a depth of 8 feet bgs because native soil was typically encountered between 4 and 8 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 18 grab subsurface soil samples were collected at specific locations and depths from fill material as follows:

- BH1 at 0-2 feet below ground surface (bgs). Total depth of boring was 6 feet bgs;
- BH2 at 0-3 feet bgs. Total depth of boring was 8 feet bgs;
- BH3 at 0-3 feet bgs. Total depth of boring was 12 feet bgs;
- BH4 at 0-3 feet bgs and 4-5 feet. Total depth of boring was 8 feet bgs;
- BH5 at 0-3 feet bgs. Total depth of boring was 8 feet bgs;
- BH6 at 0-3 feet bgs. Total depth of boring was 6 feet bgs;
- BH7 at 0-3 feet bgs. Total depth of boring was 8 feet bgs;
- BH8 at 0-3 feet bgs. Total depth of boring was 8 feet bgs;
- BH9 at 0-3 feet bgs. Total depth of boring was 8 feet bgs;
- BH10 at 0-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH11 at 0-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH12 at 0-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH13 at 0-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH14 at 1-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH15 at 1-2 feet bgs. Total depth of boring was 4 feet bgs;
- BH16 at 0-4 feet bgs. Total depth of boring was 4 feet bgs;
- BH17 at 0-4 feet bgs. Total depth of boring was 4 feet bgs;

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

2.2 GROUNDWATER SAMPLING

A total of one groundwater monitoring micro-well (MW-1) was installed in boring BH4 because the boring was wet at the completion depth and a slight petroleum-like odor was observed. No elevated PID readings were detected, however. This boring and temporary well was located along the drive area in the rear of the 202 Washington Avenue parcel and the well was removed and boring filled after sampling.

The well consisted of a 1-inch diameter, schedule 40 PVC casing equipped with a 5-foot, 100-slot screen and a solid PVC riser pipe extending to the surface. The well screen was positioned in the water bearing zone to the bottom of the boring to ensure assessment potential for contaminants. One groundwater sample was collected from the well and analyzed for volatile organic compounds.

2.3 SUBSURFACE CONDITIONS

The borings indicate that shallow subsurface conditions generally consisted of fill with some construction and demolition debris consisting mostly of brick with some cement, and cinder, ash, and some coal. Fill depths ranged from 2 to 4 feet bgs in most locations. Below the fill in most locations was brown silty clay or red-brown silty-clay stiff and tight at most depths. Refusal was encountered at BH3 at eleven (11) feet bgs. Please note that an earlier investigation (see below Section 2.4) completed by others encountered refusal at similar depths and this may denote depth to bedrock. Most boreholes were completed to 8 feet or less (refer to borehole logs in **Appendix B**).

2.4 PREVIOUS INVESTIGATIONS

A previous Phase I and II ESA was performed by TurnKey Environmental Restoration, LLC in 2010 and 2012, respectively on the parcel address 208-214 Washington Avenue (Refer to **Appendix D**). This investigation included five (5) surface soil samples, nine (9) subsurface soil borings and three (3) temporary wells.

The previous phase II ESA provided the following conclusions:

- Surface soil samples had elevated concentrations of PAHs, PCBs, arsenic, lead, and mercury above NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
- Subsurface soil samples had elevated concentrations of several PAHs, arsenic, barium, lead, and mercury above NYSDEC Part 375 SCOs.

The results of this previous investigation are provided on **Figure 2** along with the results of this Phase II ESA (Refer to **Figure 2**).

3.0 RESULTS

The results of the Phase II assessment indicated the following:

- Fill exists at shallow depths across the properties to about 2-5 feet in most locations.
- The fill contains elevated levels of metals and semi volatile organic compounds, mostly poly aromatic hydrocarbons (PAHs).
- No significant volatile organic compounds were detected in shallow subsurface soil or in the temporary shallow well. (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 SCOs listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (current). These SCOs and standards are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**.

3.1 SOIL

Seventeen 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 to 4 feet bgs. One sample collected was analyzed for NYSDEC Part 375 VOCs by EPA Method 8260C (LL BULK).

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**. Fourteen (14) of the seventeen samples had metal results above industrial, commercial, or restricted- residential SCOs in various samples across the property – refer to **Figure 2**.

Semi-Volatile Organic Compounds (SVOCs)

Of the seventeen soil samples submitted for laboratory analysis, seven had results above industrial, commercial, or restricted-residential SCOs – refer to **Figure 2**.

Volatile Organic Compounds (VOCs)

Borehole sample BH4 at 4-5 feet had a petroleum-like odor. The PID had no elevated readings of VOC compounds. Results from the sample analyzed at this depth indicated no presence of VOCs.

3.2 GROUNDWATER

One groundwater sample was collected using a bailer and analyzed for NYSDEC Part 375 VOCs by EPA Method 8260C. These results were compared to the detected groundwater parameter concentrations to the Class GA Groundwater Quality Standards (GWQS) per NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values.

Volatile Organic Compounds (VOCs)

There were no exceedances found in the grab groundwater sample collected for volatile organic compounds.

4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts at the eleven (11) parcels on the block of Washington, E. Second, and Park, Dunkirk, Chautauqua County, New York. The property was previously commercial/industrial. Adjoining properties were or are currently mixed commercial, rail and residential.

The Phase II ESA indicates that there are urban fill conditions existing at the property to at least 2-5 feet bgs. Various compounds (metals and SVOCs, primarily PAHs) were detected in soil samples above NYSDEC residential, restricted residential, commercial, and industrial SCOs.

Historical use of the property previous environmental investigations, and this assessment indicate environmental impacts exist at the property in soils above NYSDEC SCOs.

5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils as well as a review of 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 Regan Development. 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 the eleven (11) parcels on the block of Washington, East Second,

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

Peter J. Gorton

02-01-2023

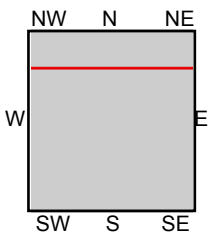
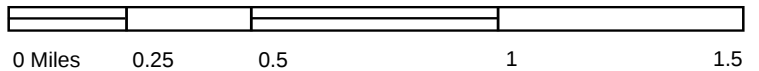
Peter J Gorton, MPH; CHCM

Date

FIGURES & TABLES



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

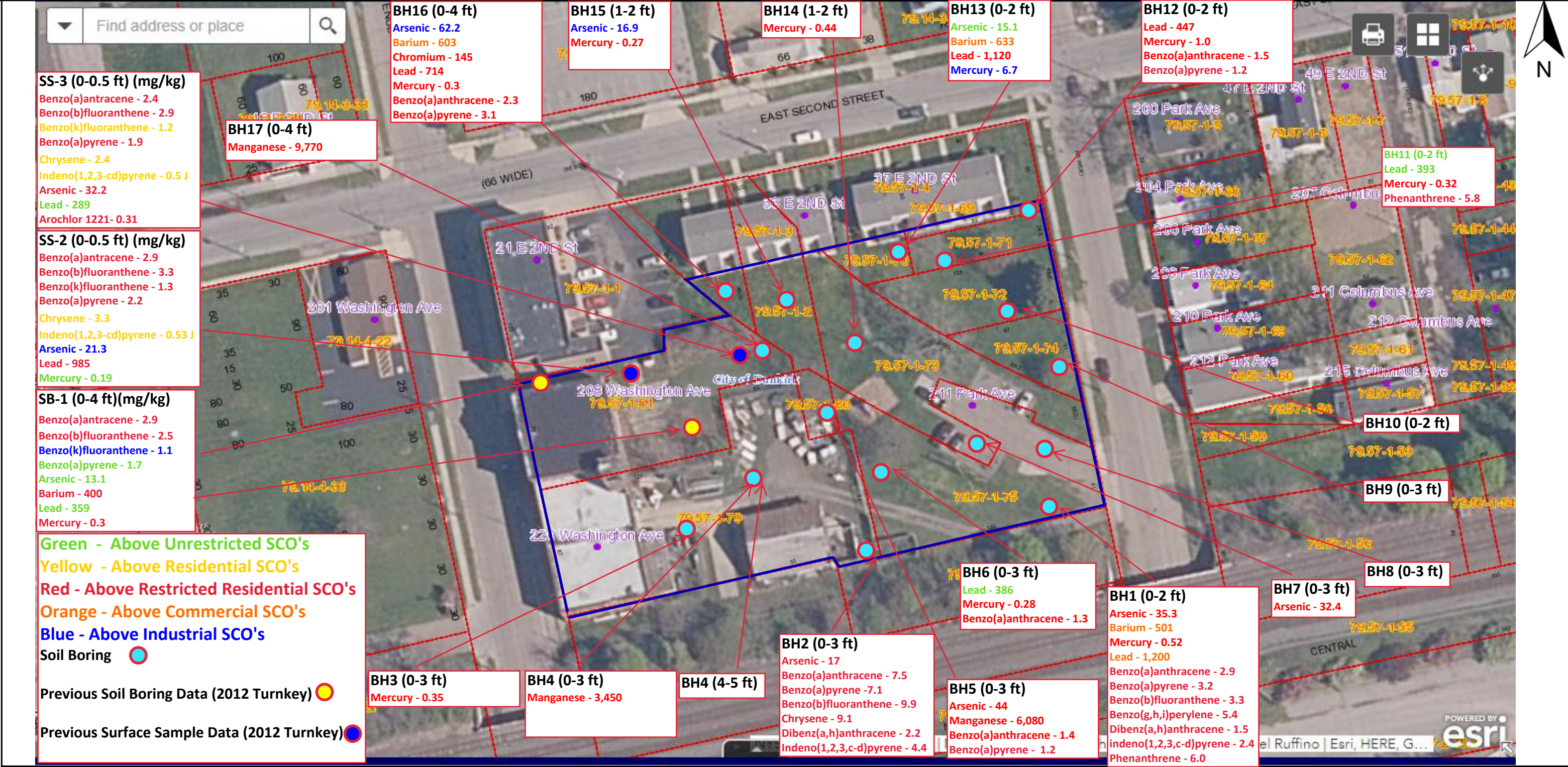


TP, Dunkirk, 2019, 7.5-minute
N, North of Dunkirk, 2019, 7.5-minute

FIGURE: Property Location



Figure 2: Sample Locations With Results



Boring Locations

Dunkirk
New York

1/13/2023
Regan Development - Dunkirk

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report January 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date								NYSDEC Soil Cleanup Objectives (SCOs)				
	BH1 0-2	BH2 0-3	BH3 0-3	BH4 0-3	BH4 4-5	BH5 0-3	BH6 0-3	BH7 0-3	Unrestricted	Residential	Restricted	Commerical	Industrial
	1/13/2023										Residential		
METALS/INORGANICS													
Arsenic	35.3	17.0	3.6	11.4	ND	44.0	10.2	32.4	13	16	16	16	16
Barium	501	221	39.5	73.0	ND	141.0	248	109	410	410	410	410	10,000
Beryllium	1.2	2.10	0.23 J	0.5	ND	0.89	0.78	1.10	4.4	8.8	43	670	750
Cadmium	1.2	0.7	0.094 J	0.3	ND	0.35	0.62	0.37	2.5	2.5	2.5	3.7	4.4
Chromium	22.3	18.7	6.1	28.1	ND	78.0	13.6	17.4	30	30	110	1,700	2,000
Copper	114.0	64.5	9.6	20.4	ND	63.7	54.6	41.0	50	280	280	280	10,000
Lead	1200	245	60.6	10.6	ND	31.6	386	90	63	400	400	1,000	3,900
Manganese	313 B	482 B	108 B	3450.0	ND	6080 B	198 B	261 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.52 B	0.23 B	0.35 B	0.04 B	ND	0.051 B	0.28 B	0.16 B	0.18	0.26	0.26	1.1	1.1
Nickel	25.8	38.0	6.1	13.9	ND	49.4	16.7	23.3	30	44	210	320	3,400
Selenium	3.0 J	ND	ND	1.5 J	ND	1.3 J	1.0 J	1.1 J	4	22	110	1,700	2,000
Silver	0.54 J	ND	ND	ND	ND	0.34 J	0.34 J	ND	2	22	110	1,700	2,000
Zinc	353	146	54.4	17.1	ND	22.7	174	91.4	109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)													
Acenaphthene	0.61 J	ND	ND	ND	ND	0.38	0.11 J	ND	20	100	100	500	1,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	0.036 J	ND	100	100	100	500	1,000
Anthracene	1.2 J	1.3 J	ND	ND	ND	0.84	0.37	ND	100	100	100	500	1,000
Benzo(a)anthracene	2.9	7.5	ND	ND	ND	1.4	1.3	0.086 J	1	1	1.4	37	37
Benzo(a)pyrene	3.2	7.1	0.38 J	0.032 J	ND	1.2	1.3	0.13 J	1	1	1	3.7	3.7
Benzo(b)fluoranthene	3.3	9.9	0.47 J	0.04 J	ND	1.2	1.3	0.17 J	1	1	1.4	37	37
Benzo(g,h,i)perylene	5.4	4.2	0.31 J	0.038 J	ND	0.83	0.85	0.15 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	1.4 J	4.3	0.16 J	ND	ND	0.64	0.72	0.071 J	0.8	1.2	4.9	47	78
Chrysene	3.1	9.1	0.30 J	ND	ND	1.3	1.4	0.13 J	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	1.5 J	2.2	ND	ND	ND	0.24	0.27	0.047 J	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	0.33 J	ND	ND	ND	ND	0.22	0.074 J	ND	2.1	4.2	18	180	290
Fluoranthene	7.0	11	0.49 J	0.029 J	ND	2.9	2.2	0.14 J	85	100	100	500	1,000
Fluorene	0.55 J	0.37 J	ND	ND	ND	0.39	0.11 J	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	2.40	4.4	0.27 J	0.034 J	ND	0.74	0.8	0.11 J	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	ND	ND	ND	0.13 J	0.071 J	ND	12	84	100	500	1,000
Phenanthrene	6.0	4.5	0.27 J	0.036 J	ND	3.1	1.6	0.11 J	1.1	1.2	4.9	47	78
Pyrene	6.0	8.2	0.46 J	0.037 J	ND	3.1	2.3	0.17 J	64	100	100	500	1,000

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 Phase II Report January 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date								NYSDEC Soil Cleanup Objectives (SCOs)				
	BH8 0-3	BH9 0-3	BH10 0-2	BH11 0-2	BH12 0-2	BH13 0-2	BH14 1-2	BH15 1-2	Unrestricted	Residential	Restricted Residential	Commerical	Industrial
	1/13/2023												
METALS/INORGANICS													
Arsenic	4.2	10.7	12.5	10.0	9.4	15.1	8.3	16.9	13	16	16	16	16
Barium	90.7	155	180.0	194	203	633	89.7	131	410	410	410	410	10,000
Beryllium	0.85	0.8	0.92	0.74	0.50	0.89	0.80	0.95	4.4	8.8	43	670	750
Cadmium	0.17 J	0	0.460	0.95	0.63	0.7	0.23 J	0.40	2.5	2.5	2.5	3.7	4.4
Chromium	6.5	26.8	26.6	33.1	16.5	28.2	11.0	12.9	30	30	110	1,700	2,000
Copper	31.8	32.1	33.2	58.6	30.9	70.8	49.0	84.5	50	280	280	280	10,000
Lead	47.9	104.0	281.0	393.0	447	1120	70.6	192	63	400	400	1,000	3,900
Manganese	290 B	302 B	375 B	320 B	365 B	762 B	288 B	336 B	1,600	2,000	2,000	10,000	10,000
Mercury	0.035 B	0.15 B	0.15 B	0.32 B	1.0 B	6.7 B	0.44 B	0.27 B	0.18	0.26	0.26	1.1	1.1
Nickel	8.4	33.7	31.6	44.6	15.6	30.1	20.7	24.6	30	44	210	320	3,400
Selenium	ND	0.65 J	ND	ND	ND	1.1 J	ND	1.4 J	4	22	110	1,700	2,000
Zinc	39.8	105.0	176.0	261	284	438	93.1	99	109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)													
Acenaphthene	ND	ND	0.049 J	ND	0.42	ND	ND	ND	20	100	100	500	1,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	0.13 J	0.028 J	100	100	100	500	1,000
Anthracene	ND	ND	0.19 J	ND	0.9	ND	ND	ND	100	100	100	500	1,000
Benzo(a)anthracene	ND	ND	0.39	ND	1.5	0.093 J	0.44 J	0.28	1	1	1.4	37	37
Benzo(a)pyrene	ND	0.18 J	0.38	ND	1.2	0.13 J	0.57 J	0.27	1	1	1	3.7	3.7
Benzo(b)fluoranthene	ND	0.21 J	0.42	ND	1.1	0.15 J	0.83 J	0.34	1	1	1.4	37	37
Benzo(g,h,i)perylene	ND	ND	0.26	ND	0.740	0.095 J	0.38 J	0.16 J	0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	ND	0.14 J	0.2 J	ND	0.63	0.061 J	0.29 J	0.16 J	0.8	1.2	4.9	47	78
Chrysene	ND	ND	0.43	ND	1.5	0.14 J	0.52 J	0.3	1	1.2	4.9	47	78
Dibenz(a,h)anthracene	ND	ND	0.084 J	ND	0.18 J	ND	ND	0.051 J	0.33	0.33	0.33	3.7	3.7
Dibenzofuran	ND	ND	0.051 J	ND	0.16 J	ND	ND	0.03 J	2.1	4.2	18	180	290
Fluoranthene	3.5 J	0.39 J	0.8	6.3 J	2.9	0.250	0.61 J	0.31	85	100	100	500	1,000
Fluorene	ND	ND	0.064 J	ND	0.340	ND	ND	ND	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	0.13 J	0.25	ND	0.69	0.095 J	0.37 J	0.16 J	0.5	0.5	1.4	37	37
Naphthalene	ND	ND	0.039 J	ND	ND	ND	ND	0.041 J	12	84	100	500	1,000
Phenanthrene	ND	0.25 J	0.77	5.8 J	3.6	0.19 J	0.2 J	0.23	1.1	1.2	4.9	47	78
Pyrene	3.2 J	0.35 J	0.83	5.0 J	3.6	0.260	0.51 J	0.35	64	100	100	500	1,000

Notes: All units in parts per million (ppm)

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 Commerical SCO
	Reported concentration greater than or equal to the NYSDEC Industrial SCO

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter Tested	BE3 Phase II Report January 2023 - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date				NYSDEC Soil Cleanup Objectives (SCOs)				
	BH-16	BH-17			Unrestricted	Residential	Restricted	Commerical	Industrial
	0-4	0-4					Residential		
	1/13/2023								
METALS/INORGANICS									
Arsenic	62.2	11.5			13	16	16	16	16
Barium	603	161			410	410	410	410	10,000
Beryllium	0.6	1.20			4.4	8.8	43	670	750
Cadmium	1.6	0.45			2.5	2.5	2.5	3.7	4.4
Chromium	145.0	51.9			30	30	110	1,700	2,000
Copper	114.0	37.1			50	280	280	280	10,000
Lead	714	12			63	400	400	1,000	3,900
Manganese	1910 B	9770 B			1,600	2,000	2,000	10,000	10,000
Mercury	0.30 B	0.008 J B			0.18	0.26	0.26	1.1	1.1
Nickel	44.1	22.9			30	44	210	320	3,400
Selenium	3.9 J	3.5 J			4	22	110	1,700	2,000
Zinc	376	41.7			109	1,300	6,600	10,000	10,000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)									
Acenaphthene	ND	ND			20	100	100	500	1,000
Acenaphthylene	ND	ND			100	100	100	500	1,000
Anthracene	ND	ND			100	100	100	500	1,000
Benzo(a)anthracene	2.3 J	ND			1	1	1.4	37	37
Benzo(a)pyrene	3.1 J	ND			1	1	1	3.7	3.7
Benzo(b)fluoranthene	ND	ND			1	1	1.4	37	37
Benzo(g,h,i)perylene	ND	ND			0.64	1.2	4.9	47	78
Benzo(k)fluoranthene	ND	ND			0.8	1.2	4.9	47	78
Chrysene	ND	ND			1	1.2	4.9	47	78
Dibenz(a,h)anthracene	ND	ND			0.33	0.33	0.33	3.7	3.7
Dibenzofuran	ND	ND			2.1	4.2	18	180	290
Fluoranthene	6.0 J	0.027 J			85	100	100	500	1,000
Fluorene	ND	ND			30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	ND	ND			0.5	0.5	1.4	37	37
Naphthalene	ND	ND			12	84	100	500	1,000
Phenanthrene	4.8 J	ND			1.1	1.2	4.9	47	78
Pyrene	4.5 J	0.027 J			64	100	100	500	1,000

Notes: All units in parts per million (ppm)

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

	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

APPENDICES

APPENDIX A

Field Activity Photolog

Date: 1/13/2023



BH1 Location. (Facing South)



BH1 Location. (Facing West)



BH2 Location (Facing East)



BH2 Location (Facing South)

Date: 1/13/2023



BH2 cores.



BH3 Location. (Facing West)



BH3 Location. (Facing Northwest)



BH3 cores.

Date: 1/13/2023



BH4 Location. (Facing West)



BH4 Location (Facing East)



BH4 cores.



BH5 Location (Facing North)

Date: 1/13/2023



BH5 Location. (Facing South)



BH5 cores.



BH6 Location (Facing West)



BH6 Location. (Facing South)

Date: 1/13/2023



BH6 cores.



BH7 Location. (Facing West)



BH7 Location. (Facing Southwest)



BH7 cores.

Date: 1/13/2023



BH8 Location (Facing West)



BH8 Location. (Facing South)



BH8 cores.



BH9 Location. (Facing North)

Date: 1/13/2023



BH9 Location (Facing West)



BH9 cores.



BH10 cores.



BH11 Location. (Facing East)

Date: 1/13/2023



BH11 Location (Facing North)



BH11 cores.



BH12 Location. (Facing North)



BH 12 Location. (Facing West)

Date: 1/13/2023



BH12 cores.



BH13 cores.



BH13 Location. (Facing East)



BH13 Location. (Facing North)

Date: 1/13/2023



BH14 Location. (Facing Northwest)



BH14 Location. (Facing North)



BH14 cores.



BH15 Location. (Facing North)

Date: 1/13/2023



BH15 Location. (Facing West)



BH15 cores.



BH16 Location. (Facing West)



BH16 Location. (Facing North)

Date: 1/13/2023



BH16 cores.



BH17 Location. (Facing West)



BH17 Location. (Facing South)



BH17 cores.

APPENDIX B

Boring Logs

Geoprobe Bore Hole Log



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

Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		215 Park Avenue (-79.57-1-75)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH1		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - Fill, sandy black ash and cinder, some coal
3					2-2.5 feet - brick
4					
5					
6					2.5-6 feet - sandy, silty clay
7					Bore end at 6 feet
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor. Sampled from 0 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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

Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		220 Washington Avenue (-79.57-1-79)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH2		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - Fill, sandy black ash
3					2-3 feet - brown clay, sandy, wet
4					
5					3-5 feet - dark brown clay, some coal, orange color
6					
7					
8					5-8 feet - dark brown clay, native.
9					Bore end at 8 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Buffalo, NY 14213
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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		220 Washington Avenue (79.57-1-79)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH3		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - sany gravel, black, some red
3					
4					2-4 feet - black sand, some coal
5					
6					4-6 feet sandy clay, some gravel
7					
8					6-8 feet - light brown clay
9					
10					8-10 feet - wet, sandy clay, some gravel, loose
11					
12					10-12 feet - light brown clay, tight, top of bedrock
13					Bore end at 12 feet
14					
15					
16					
17					
18					
19					
20					
Comments: No odor. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		220 Washington Avenue (79.57-1-79)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH4		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - black sand, coal, some gravel, moist, some red color
5					
6					
7					
8				0.0	4-8 feet - black sand, brown clay, some coal, some gravel, moist, some red color, wet. Odor Present. PID reads 0.
9					Bore End at 8 feet.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: Oily odor present. PID read 0 ppm. Sampled from 0 - 3 feet for metals and SVOCs Sampled from 4 -5 feet for VOC. Temporaray well installed. Bootom of screen at 8 ft (Screen length - 5 feet). Sampled groundwater for VOC.					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		Park Avenue - Rear (-79.57-1-80)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH5		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - black sand, coal, some gravel, moist, some red color
5					
6					4-6 feet - wet. Brown sandy clay, some gravel
7					
8					6-8 feet - light brown clay, tight, wet
9					Bore End at 8 feet.
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Buffalo, NY 14213
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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		215 Park Avenue (79.57-1-75)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH6		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					0-3 feet - Black sandy ash and coal
4					3-4 feet - red clay
5					
6					4-6 feet - wet brown sandy clay
7					End of bore at 6 feet
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		East Second Street (79.57-1-73)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH7		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - Black sandy ash and coal
3					
4					2-4 feet - Brown clay, ash, some sand
5					
6					
7					
8					4-8 feet - light brown clay, wet, some sand and gravel
9					Bore end at 8 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		215 Park Ave (79.57-1-75)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH8		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					0-3 feet - Black sandy ash and coal
4					
5					
6					3-6 feet - Brown sand, wet, some small gravel.
7					
8					6-8 feet - light brown clay, wet.
9					Bore end at 8 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		211 Park Avenue (79.57-1-74)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH9		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - Brown clay, some red, some black.
5					
6					
7					
8					4-8 feet - brown clay, some sand and rock.
9					Bore end at 8 feet
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 3 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		Park Avenue (79.57-1-72)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH10		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - Brown clay, large gravel, some red, some black.
3					
4					2-4 feet - Red brown clay, tight. Native. Bore end at 4 feet
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		207 Park Avenue (-79.57-1-71)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH11		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - Black sand, coal
3					
4					2-4 feet - Red brown clay, tight. Native. Bore end at 4 feet
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
				East Second Street (-79.57-1-69)	
Contractor:		TREC		Lat/Long:	
Date Started:		1/13/2023		Equipment Model:	
				Geoprobe	
Date Completed:		1/13/2023		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
Operator:		TREC		Ground Water:	
				N/A	
Bore Hole Number:		BH12		Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - brown silty clay
3					
4					2-4 feet - Red brown clay, tight. Native. Bore end at 4 feet
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		East Second Street (-79.57-1-70)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH13		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - light brown clay, some coal, some stone, red coloration
5					Bore end at 4 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		East Second Street (-79.57-1-73)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH14		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - black, brown sandy clay, some coal
3					2-3 feet - brown sand, some silt
4					3-4 feet - red brown clay
5					Bore end at 4 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 1 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		East Second Street (-79.57-1-2)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH15		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					0-2 feet - black sandy silt, some coal
3					2-3 feet - brown sand, some silt
4					3-4 feet - red brown clay, tight
5					Bore end at 4 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 1 - 2 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		East Second Street (-79.57-1-73)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH16		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - Black sand, coal, orange color at 2 feet. Bore end at 4 feet
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 4 feet for metals and SVOCs					

Geoprobe Bore Hole Log



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Project:				Dunkirk Phase II	
Client:		Regan Development		Location:	
Contractor:		TREC		208-214 Washinton Avenue (-79.57-1-81)	
Date Started:		1/13/2023		Lat/Long:	
Date Completed:		1/13/2023		Equipment Model:	
Operator:		TREC		Geoprobe	
Bore Hole Number:		BH17		Geologist/Technician:	
				Pete Gorton & Jacob Cox	
				Ground Water:	
				N/A	
				Depth to Bedrock:	
				N/A	
Depth (Ft)	Sample		REC	PID (ppm)	Description
	NO	TYPE			
0					
1					
2					
3					
4					0-4 feet - Black sand, coal, some orange, slag chunks.
5					Bore end at 4 feet
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
Comments: No odor present. Sampled from 0 - 4 feet for metals and SVOCs					

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

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JOB DESCRIPTION

Regan Development - Dunkirk, NY

JOB NUMBER

480-205498-1

Eurofins Buffalo

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

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Authorized for release by
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Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Qualifiers

GC/MS VOA

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

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.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Eurofins Buffalo

Definitions/Glossary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Case Narrative

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Job ID: 480-205498-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-205498-1

Comments

No additional comments.

Receipt

The samples were received on 1/14/2023 9:15 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 6.3° C.

GC/MS VOA

Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: BH-4 4-5 (480-205498-18). pH is 7.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: BH-4 4-5 (480-205498-5). 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.

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: BH-1 0-2 (480-205498-1), BH-2 0-3 (480-205498-2), BH-3 0-3 (480-205498-3), BH-8 0-3 (480-205498-9), BH-9 0-3 (480-205498-10), BH-11 0-2 (480-205498-12), BH-14 1-2 (480-205498-15), BH-16 0--4 (480-205498-17), (480-205498-A-10-A MS) and (480-205498-A-10-B MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: BH-8 0-3 (480-205498-9), BH-11 0-2 (480-205498-12) and BH-16 0--4 (480-205498-17). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

Metals

Method 6010C: The following samples were diluted due to the presence of Total Iron which interferes with Chromium, Manganese, Nickel, and Lead: BH-4 0-3 (480-205498-4), BH-5 0-3 (480-205498-6), BH-16 0--4 (480-205498-17) and BH-17 0-4 (480-205498-19). 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 samples could not be concentrated to the final method required volume: BH-8 0-3 (480-205498-9), BH-11 0-2 (480-205498-12) and BH-16 0--4 (480-205498-17). 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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-1 0-2

Lab Sample ID: 480-205498-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	610	J	2200	320	ug/Kg	10	✱	8270D	Total/NA
Anthracene	1200	J	2200	540	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	2900		2200	220	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	3200		2200	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	3300		2200	350	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	5400		2200	230	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	1400	J	2200	280	ug/Kg	10	✱	8270D	Total/NA
Chrysene	3100		2200	490	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	1500	J	2200	390	ug/Kg	10	✱	8270D	Total/NA
Dibenzofuran	330	J	2200	260	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	7000		2200	230	ug/Kg	10	✱	8270D	Total/NA
Fluorene	550	J	2200	260	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2400		2200	270	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	6000		2200	320	ug/Kg	10	✱	8270D	Total/NA
Pyrene	6000		2200	260	ug/Kg	10	✱	8270D	Total/NA
Arsenic	35.3		2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	501		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	1.2		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.2		0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	22.3		0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	114		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	1200		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	313	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	25.8		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Selenium	3.0	J	5.2	0.52	mg/Kg	1	✱	6010C	Total/NA
Silver	0.54	J	0.78	0.26	mg/Kg	1	✱	6010C	Total/NA
Zinc	353		2.6	0.83	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.52	F1 F2 B	0.026	0.0059	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-2 0-3

Lab Sample ID: 480-205498-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	1300	J	2000	500	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]anthracene	7500		2000	200	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	7100		2000	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	9900		2000	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	4200		2000	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	4300		2000	260	ug/Kg	10	✱	8270D	Total/NA
Chrysene	9100		2000	450	ug/Kg	10	✱	8270D	Total/NA
Dibenz(a,h)anthracene	2200		2000	360	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	11000		2000	210	ug/Kg	10	✱	8270D	Total/NA
Fluorene	370	J	2000	240	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4400		2000	250	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	4500		2000	300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	8200		2000	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	17.0		2.4	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	221		0.59	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	2.1		0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.70		0.24	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	18.7		0.59	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	64.5		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-2 0-3 (Continued)

Lab Sample ID: 480-205498-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	245		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	482	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	38.0		5.9	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	146		2.4	0.76	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.23	B	0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-3 0-3

Lab Sample ID: 480-205498-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	380	J	970	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	470	J	970	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	310	J	970	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	160	J	970	130	ug/Kg	5	✱	8270D	Total/NA
Chrysene	300	J	970	220	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	490	J	970	100	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	270	J	970	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	270	J	970	140	ug/Kg	5	✱	8270D	Total/NA
Pyrene	460	J	970	110	ug/Kg	5	✱	8270D	Total/NA
Arsenic	3.6		2.4	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	39.5		0.59	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.23	J	0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.094	J	0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	6.1		0.59	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	9.6		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	60.6		1.2	0.28	mg/Kg	1	✱	6010C	Total/NA
Manganese	108	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	6.1		5.9	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	54.4		2.4	0.76	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.35	B	0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-4 0-3

Lab Sample ID: 480-205498-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	32	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	40	J	190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	38	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	29	J	190	20	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	34	J	190	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	36	J	190	28	ug/Kg	1	✱	8270D	Total/NA
Pyrene	37	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	11.4		2.3	0.45	mg/Kg	1	✱	6010C	Total/NA
Barium	73.0		0.57	0.12	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.52		0.23	0.032	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.32		0.23	0.034	mg/Kg	1	✱	6010C	Total/NA
Chromium	28.1		1.1	0.45	mg/Kg	2	✱	6010C	Total/NA
Copper	20.4		1.1	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	10.6		2.3	0.54	mg/Kg	2	✱	6010C	Total/NA
Manganese	3450		0.45	0.072	mg/Kg	2	✱	6010C	Total/NA
Nickel	13.9		11.3	0.52	mg/Kg	2	✱	6010C	Total/NA
Selenium	1.5	J	4.5	0.45	mg/Kg	1	✱	6010C	Total/NA
Zinc	17.1		2.3	0.72	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.040	B	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-4 4-5

Lab Sample ID: 480-205498-5

No Detections.

Client Sample ID: BH-5 0-3

Lab Sample ID: 480-205498-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	380		190	29	ug/Kg	1	✱	8270D	Total/NA
Anthracene	840		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1400		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1200		190	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1200		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	830		190	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	640		190	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1300		190	43	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	240		190	34	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	220		190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2900		190	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	390		190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	740		190	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	130	J	190	25	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	3100		190	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	3100		190	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	44.0		2.4	0.47	mg/Kg	1	✱	6010C	Total/NA
Barium	141		0.59	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.89		0.24	0.033	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.35		0.24	0.035	mg/Kg	1	✱	6010C	Total/NA
Chromium	78.0		1.2	0.47	mg/Kg	2	✱	6010C	Total/NA
Copper	63.7		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	31.6		2.4	0.57	mg/Kg	2	✱	6010C	Total/NA
Manganese	6080	B	0.47	0.076	mg/Kg	2	✱	6010C	Total/NA
Nickel	49.4		11.8	0.54	mg/Kg	2	✱	6010C	Total/NA
Selenium	1.3	J	4.7	0.47	mg/Kg	1	✱	6010C	Total/NA
Silver	0.34	J	0.71	0.24	mg/Kg	1	✱	6010C	Total/NA
Zinc	22.7		2.4	0.76	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.051	B	0.024	0.0055	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-6 0-3

Lab Sample ID: 480-205498-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	110	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Acenaphthylene	36	J	220	28	ug/Kg	1	✱	8270D	Total/NA
Anthracene	370		220	54	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1300		220	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1300		220	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1300		220	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	850		220	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	720		220	28	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1400		220	49	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	270		220	39	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	74	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2200		220	23	ug/Kg	1	✱	8270D	Total/NA
Fluorene	110	J	220	26	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	800		220	27	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	71	J	220	28	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-6 0-3 (Continued)

Lab Sample ID: 480-205498-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1600		220	32	ug/Kg	1	✱	8270D	Total/NA
Pyrene	2300		220	26	ug/Kg	1	✱	8270D	Total/NA
Arsenic	10.2		2.7	0.55	mg/Kg	1	✱	6010C	Total/NA
Barium	248		0.68	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.78		0.27	0.038	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.62		0.27	0.041	mg/Kg	1	✱	6010C	Total/NA
Chromium	13.6		0.68	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	54.6		1.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Lead	386		1.4	0.33	mg/Kg	1	✱	6010C	Total/NA
Manganese	198	B	0.27	0.044	mg/Kg	1	✱	6010C	Total/NA
Nickel	16.7		6.8	0.32	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.0	J	5.5	0.55	mg/Kg	1	✱	6010C	Total/NA
Silver	0.34	J	0.82	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	174		2.7	0.88	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.28	B	0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-7 0-3

Lab Sample ID: 480-205498-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	86	J	210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	130	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	170	J	210	34	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	71	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Chrysene	130	J	210	47	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	47	J	210	37	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	140	J	210	22	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110	J	210	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	110	J	210	31	ug/Kg	1	✱	8270D	Total/NA
Pyrene	170	J	210	25	ug/Kg	1	✱	8270D	Total/NA
Arsenic	32.4	F1 F2	2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	109		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	1.1		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.37		0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	17.4	F2	0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	41.0	F1 F2	1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	90.1	F1 F2	1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	261	B F2	0.26	0.042	mg/Kg	1	✱	6010C	Total/NA
Nickel	23.3		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.1	J	5.2	0.52	mg/Kg	1	✱	6010C	Total/NA
Zinc	91.4	F1 F2	2.6	0.83	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.16	B	0.026	0.0060	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-8 0-3

Lab Sample ID: 480-205498-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	3500	J	22000	2300	ug/Kg	10	✱	8270D	Total/NA
Pyrene	3200	J	22000	2500	ug/Kg	10	✱	8270D	Total/NA
Arsenic	4.2		2.6	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	90.7		0.66	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.85		0.26	0.037	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.17	J	0.26	0.039	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-8 0-3 (Continued)

Lab Sample ID: 480-205498-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	6.5		0.66	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	31.8		1.3	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	47.9		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Manganese	290	B	0.26	0.042	mg/Kg	1	✱	6010C	Total/NA
Nickel	8.4		6.6	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	39.8		2.6	0.84	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.035	B	0.025	0.0058	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-9 0-3

Lab Sample ID: 480-205498-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	180	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	210	J	1000	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	150	J	1000	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	140	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	390	J	1000	110	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	130	J	1000	130	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	250	J	1000	150	ug/Kg	5	✱	8270D	Total/NA
Pyrene	350	J	1000	120	ug/Kg	5	✱	8270D	Total/NA
Arsenic	10.7		2.5	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	155		0.63	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.80		0.25	0.035	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.39		0.25	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	26.8		0.63	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	32.1		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	104		1.3	0.30	mg/Kg	1	✱	6010C	Total/NA
Manganese	302	B	0.25	0.040	mg/Kg	1	✱	6010C	Total/NA
Nickel	33.7		6.3	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.65	J	5.1	0.51	mg/Kg	1	✱	6010C	Total/NA
Zinc	105		2.5	0.81	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.15	B	0.021	0.0049	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-10 0-2

Lab Sample ID: 480-205498-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	49	J	210	30	ug/Kg	1	✱	8270D	Total/NA
Anthracene	190	J	210	51	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	390		210	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	380		210	30	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	420		210	33	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	260		210	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	200	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Chrysene	430		210	46	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	84	J	210	36	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	51	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	800		210	22	ug/Kg	1	✱	8270D	Total/NA
Fluorene	64	J	210	24	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	250		210	25	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	39	J	210	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	770		210	30	ug/Kg	1	✱	8270D	Total/NA
Pyrene	830		210	24	ug/Kg	1	✱	8270D	Total/NA
Arsenic	12.5		2.5	0.49	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-10 0-2 (Continued)

Lab Sample ID: 480-205498-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	180		0.61	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.92		0.25	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.46		0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	26.6		0.61	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	33.2		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	281		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	375	B	0.25	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	31.6		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Zinc	176		2.5	0.79	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.15	B	0.022	0.0051	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-11 0-2

Lab Sample ID: 480-205498-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	6300	J	24000	2500	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	5800	J	24000	3500	ug/Kg	10	✱	8270D	Total/NA
Pyrene	5000	J	24000	2800	ug/Kg	10	✱	8270D	Total/NA
Arsenic	10.0		2.6	0.52	mg/Kg	1	✱	6010C	Total/NA
Barium	194		0.65	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.74		0.26	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.95		0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	33.1		0.65	0.26	mg/Kg	1	✱	6010C	Total/NA
Copper	58.6		1.3	0.27	mg/Kg	1	✱	6010C	Total/NA
Lead	393		1.3	0.31	mg/Kg	1	✱	6010C	Total/NA
Manganese	320	B	0.26	0.041	mg/Kg	1	✱	6010C	Total/NA
Nickel	44.6		6.5	0.30	mg/Kg	1	✱	6010C	Total/NA
Zinc	261		2.6	0.83	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.32	B	0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-12 0-2

Lab Sample ID: 480-205498-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	420		190	29	ug/Kg	1	✱	8270D	Total/NA
Anthracene	900		190	48	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	1500		190	19	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	1200		190	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	1100		190	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	740		190	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	630		190	25	ug/Kg	1	✱	8270D	Total/NA
Chrysene	1500		190	44	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	180	J	190	34	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	160	J	190	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	2900		190	21	ug/Kg	1	✱	8270D	Total/NA
Fluorene	340		190	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	690		190	24	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	3600		190	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	3600		190	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	9.4		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	203		0.60	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.50		0.24	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.63		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	16.5		0.60	0.24	mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-12 0-2 (Continued)

Lab Sample ID: 480-205498-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	30.9		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	447		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	365	B	0.24	0.038	mg/Kg	1	✱	6010C	Total/NA
Nickel	15.6		6.0	0.28	mg/Kg	1	✱	6010C	Total/NA
Silver	0.39	J	0.72	0.24	mg/Kg	1	✱	6010C	Total/NA
Zinc	284		2.4	0.77	mg/Kg	1	✱	6010C	Total/NA
Mercury	1.0	B	0.022	0.0050	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-13 0-2

Lab Sample ID: 480-205498-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	93	J	220	22	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	130	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	150	J	220	35	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	95	J	220	23	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	61	J	220	29	ug/Kg	1	✱	8270D	Total/NA
Chrysene	140	J	220	49	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	250		220	23	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	95	J	220	27	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	190	J	220	32	ug/Kg	1	✱	8270D	Total/NA
Pyrene	260		220	26	ug/Kg	1	✱	8270D	Total/NA
Arsenic	15.1		2.7	0.55	mg/Kg	1	✱	6010C	Total/NA
Barium	633		0.68	0.15	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.89		0.27	0.038	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.67		0.27	0.041	mg/Kg	1	✱	6010C	Total/NA
Chromium	28.2		0.68	0.27	mg/Kg	1	✱	6010C	Total/NA
Copper	70.8		1.4	0.29	mg/Kg	1	✱	6010C	Total/NA
Lead	1120		1.4	0.33	mg/Kg	1	✱	6010C	Total/NA
Manganese	762	B	0.27	0.044	mg/Kg	1	✱	6010C	Total/NA
Nickel	30.1		6.8	0.31	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.1	J	5.5	0.55	mg/Kg	1	✱	6010C	Total/NA
Silver	0.49	J	0.82	0.27	mg/Kg	1	✱	6010C	Total/NA
Zinc	438		2.7	0.87	mg/Kg	1	✱	6010C	Total/NA
Mercury	6.7	B	0.27	0.062	mg/Kg	10	✱	7471B	Total/NA

Client Sample ID: BH-14 1-2

Lab Sample ID: 480-205498-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	130	J	980	130	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]anthracene	440	J	980	98	ug/Kg	5	✱	8270D	Total/NA
Benzo[a]pyrene	570	J	980	140	ug/Kg	5	✱	8270D	Total/NA
Benzo[b]fluoranthene	830	J	980	160	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	380	J	980	100	ug/Kg	5	✱	8270D	Total/NA
Benzo[k]fluoranthene	290	J	980	130	ug/Kg	5	✱	8270D	Total/NA
Chrysene	520	J	980	220	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	610	J	980	100	ug/Kg	5	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	370	J	980	120	ug/Kg	5	✱	8270D	Total/NA
Phenanthrene	200	J	980	140	ug/Kg	5	✱	8270D	Total/NA
Pyrene	510	J	980	120	ug/Kg	5	✱	8270D	Total/NA
Arsenic	8.3		2.5	0.49	mg/Kg	1	✱	6010C	Total/NA
Barium	89.7		0.61	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.80		0.25	0.034	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-14 1-2 (Continued)

Lab Sample ID: 480-205498-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.23	J	0.25	0.037	mg/Kg	1	✱	6010C	Total/NA
Chromium	11.0		0.61	0.25	mg/Kg	1	✱	6010C	Total/NA
Copper	49.0		1.2	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	70.6		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	288	B	0.25	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	20.7		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Zinc	93.1		2.5	0.79	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.44	B	0.024	0.0056	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-15 1-2

Lab Sample ID: 480-205498-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	28	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]anthracene	280		200	20	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	270		200	29	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	340		200	31	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	160	J	200	21	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	160	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Chrysene	300		200	44	ug/Kg	1	✱	8270D	Total/NA
Dibenz(a,h)anthracene	51	J	200	35	ug/Kg	1	✱	8270D	Total/NA
Dibenzofuran	30	J	200	23	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	310		200	21	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	160	J	200	24	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	41	J	200	26	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	230		200	29	ug/Kg	1	✱	8270D	Total/NA
Pyrene	350		200	23	ug/Kg	1	✱	8270D	Total/NA
Arsenic	16.9		2.4	0.49	mg/Kg	1	✱	6010C	Total/NA
Barium	131		0.61	0.13	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.95		0.24	0.034	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.40		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	12.9		0.61	0.24	mg/Kg	1	✱	6010C	Total/NA
Copper	84.5		1.2	0.25	mg/Kg	1	✱	6010C	Total/NA
Lead	192		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Manganese	336	B	0.24	0.039	mg/Kg	1	✱	6010C	Total/NA
Nickel	24.6		6.1	0.28	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.4	J	4.9	0.49	mg/Kg	1	✱	6010C	Total/NA
Zinc	99.0		2.4	0.78	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.27	B	0.023	0.0053	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: BH-16 0--4

Lab Sample ID: 480-205498-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	2300	J	21000	2100	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	3100	J	21000	3100	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	6000	J	21000	2200	ug/Kg	10	✱	8270D	Total/NA
Phenanthrene	4800	J	21000	3100	ug/Kg	10	✱	8270D	Total/NA
Pyrene	4500	J	21000	2500	ug/Kg	10	✱	8270D	Total/NA
Arsenic	62.2		2.5	0.51	mg/Kg	1	✱	6010C	Total/NA
Barium	603		0.64	0.14	mg/Kg	1	✱	6010C	Total/NA
Beryllium	0.61		0.25	0.036	mg/Kg	1	✱	6010C	Total/NA
Cadmium	1.6		0.25	0.038	mg/Kg	1	✱	6010C	Total/NA
Chromium	145		3.2	1.3	mg/Kg	5	✱	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-16 0--4 (Continued)

Lab Sample ID: 480-205498-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	114		1.3	0.27	mg/Kg	1		✱	6010C	Total/NA
Lead	714		6.4	1.5	mg/Kg	5		✱	6010C	Total/NA
Manganese	1910	B	1.3	0.20	mg/Kg	5		✱	6010C	Total/NA
Nickel	44.1		31.9	1.5	mg/Kg	5		✱	6010C	Total/NA
Selenium	3.9	J	5.1	0.51	mg/Kg	1		✱	6010C	Total/NA
Zinc	376		2.5	0.82	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.30	B	0.025	0.0057	mg/Kg	1		✱	7471B	Total/NA

Client Sample ID: BH-4 4-5

Lab Sample ID: 480-205498-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.4	J	10	3.0	ug/L	1			8260C	Total/NA

Client Sample ID: BH-17 0-4

Lab Sample ID: 480-205498-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Fluoranthene	27	J	190	20	ug/Kg	1		✱	8270D	Total/NA
Pyrene	27	J	190	23	ug/Kg	1		✱	8270D	Total/NA
Arsenic	11.5		2.3	0.46	mg/Kg	1		✱	6010C	Total/NA
Barium	161		0.57	0.13	mg/Kg	1		✱	6010C	Total/NA
Beryllium	1.2		0.23	0.032	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.45		0.23	0.034	mg/Kg	1		✱	6010C	Total/NA
Chromium	51.9		1.1	0.46	mg/Kg	2		✱	6010C	Total/NA
Copper	37.1		1.1	0.24	mg/Kg	1		✱	6010C	Total/NA
Lead	12.0		2.3	0.55	mg/Kg	2		✱	6010C	Total/NA
Manganese	9770	B	0.46	0.073	mg/Kg	2		✱	6010C	Total/NA
Nickel	22.9		11.4	0.53	mg/Kg	2		✱	6010C	Total/NA
Selenium	3.5	J	4.6	0.46	mg/Kg	1		✱	6010C	Total/NA
Silver	0.38	J	0.69	0.23	mg/Kg	1		✱	6010C	Total/NA
Zinc	41.7		2.3	0.73	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.0080	J B	0.024	0.0055	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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-1 0-2

Lab Sample ID: 480-205498-1

Date Collected: 01/13/23 09:10

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 76.9

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	710	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
2-Methylphenol	2200	U	2200	260	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
3-Methylphenol	4200	U	4200	330	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
4-Methylphenol	4200	U	4200	260	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Acenaphthene	610	J	2200	320	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Acenaphthylene	2200	U	2200	280	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Anthracene	1200	J	2200	540	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Benzo[a]anthracene	2900		2200	220	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Benzo[a]pyrene	3200		2200	320	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Benzo[b]fluoranthene	3300		2200	350	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Benzo[g,h,i]perylene	5400		2200	230	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Benzo[k]fluoranthene	1400	J	2200	280	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Chrysene	3100		2200	490	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Dibenz(a,h)anthracene	1500	J	2200	390	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Dibenzofuran	330	J	2200	260	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Fluoranthene	7000		2200	230	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Fluorene	550	J	2200	260	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Hexachlorobenzene	2200	U	2200	300	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Indeno[1,2,3-cd]pyrene	2400		2200	270	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Naphthalene	2200	U	2200	280	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Pentachlorophenol	4200	U	4200	2200	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Phenanthrene	6000		2200	320	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Phenol	2200	U	2200	330	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10
Pyrene	6000		2200	260	ug/Kg	☆	01/17/23 15:51	01/18/23 15:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	01/17/23 15:51	01/18/23 15:52	10
2-Fluorobiphenyl (Surr)	99		60 - 120	01/17/23 15:51	01/18/23 15:52	10
2-Fluorophenol (Surr)	89		52 - 120	01/17/23 15:51	01/18/23 15:52	10
Nitrobenzene-d5 (Surr)	78		53 - 120	01/17/23 15:51	01/18/23 15:52	10
Phenol-d5 (Surr)	87		54 - 120	01/17/23 15:51	01/18/23 15:52	10
p-Terphenyl-d14 (Surr)	113		79 - 130	01/17/23 15:51	01/18/23 15:52	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35.3		2.6	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Barium	501		0.65	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Beryllium	1.2		0.26	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Cadmium	1.2		0.26	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Chromium	22.3		0.65	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Copper	114		1.3	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Lead	1200		1.3	0.31	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Manganese	313	B	0.26	0.041	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Nickel	25.8		6.5	0.30	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Selenium	3.0	J	5.2	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Silver	0.54	J	0.78	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1
Zinc	353		2.6	0.83	mg/Kg	☆	01/17/23 12:42	01/19/23 00:20	1

Eurofins Buffalo

Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-1 0-2

Date Collected: 01/13/23 09:10

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-1

Matrix: Solid

Percent Solids: 76.9

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52	F1 F2 B	0.026	0.0059	mg/Kg	☆	01/18/23 11:51	01/18/23 14:49	1

Client Sample ID: BH-2 0-3

Date Collected: 01/13/23 09:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-2

Matrix: Solid

Percent Solids: 83.2

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	☆	01/17/23 15:51	01/18/23 16:18	10
2-Methylphenol	2000	U	2000	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
3-Methylphenol	3900	U	3900	310	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
4-Methylphenol	3900	U	3900	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Acenaphthene	2000	U	2000	300	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Acenaphthylene	2000	U	2000	260	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Anthracene	1300	J	2000	500	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Benzo[a]anthracene	7500		2000	200	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Benzo[a]pyrene	7100		2000	300	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Benzo[b]fluoranthene	9900		2000	320	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Benzo[g,h,i]perylene	4200		2000	210	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Benzo[k]fluoranthene	4300		2000	260	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Chrysene	9100		2000	450	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Dibenz(a,h)anthracene	2200		2000	360	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Dibenzofuran	2000	U	2000	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Fluoranthene	11000		2000	210	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Fluorene	370	J	2000	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Hexachlorobenzene	2000	U	2000	270	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Indeno[1,2,3-cd]pyrene	4400		2000	250	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Naphthalene	2000	U	2000	260	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Pentachlorophenol	3900	U	3900	2000	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Phenanthrene	4500		2000	300	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Phenol	2000	U	2000	310	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10
Pyrene	8200		2000	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	111		54 - 120	01/17/23 15:51	01/18/23 16:18	10
2-Fluorobiphenyl (Surr)	98		60 - 120	01/17/23 15:51	01/18/23 16:18	10
2-Fluorophenol (Surr)	83		52 - 120	01/17/23 15:51	01/18/23 16:18	10
Nitrobenzene-d5 (Surr)	83		53 - 120	01/17/23 15:51	01/18/23 16:18	10
Phenol-d5 (Surr)	94		54 - 120	01/17/23 15:51	01/18/23 16:18	10
p-Terphenyl-d14 (Surr)	108		79 - 130	01/17/23 15:51	01/18/23 16:18	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17.0		2.4	0.47	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Barium	221		0.59	0.13	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Beryllium	2.1		0.24	0.033	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Cadmium	0.70		0.24	0.035	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Chromium	18.7		0.59	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Copper	64.5		1.2	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Lead	245		1.2	0.28	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-2 0-3

Lab Sample ID: 480-205498-2

Date Collected: 01/13/23 09:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	482	B	0.24	0.038	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Nickel	38.0		5.9	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Selenium	4.7	U	4.7	0.47	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1
Zinc	146		2.4	0.76	mg/Kg	☆	01/17/23 12:42	01/19/23 00:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23	B	0.022	0.0051	mg/Kg	☆	01/18/23 11:51	01/18/23 14:54	1

Client Sample ID: BH-3 0-3

Lab Sample ID: 480-205498-3

Date Collected: 01/13/23 09:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	570	U	570	310	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
2-Methylphenol	970	U	970	110	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
3-Methylphenol	1900	U	1900	150	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
4-Methylphenol	1900	U	1900	110	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Acenaphthene	970	U	970	140	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Acenaphthylene	970	U	970	130	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Anthracene	970	U	970	240	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Benzo[a]anthracene	970	U	970	97	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Benzo[a]pyrene	380	J	970	140	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Benzo[b]fluoranthene	470	J	970	150	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Benzo[g,h,i]perylene	310	J	970	100	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Benzo[k]fluoranthene	160	J	970	130	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Chrysene	300	J	970	220	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Dibenz(a,h)anthracene	970	U	970	170	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Dibenzofuran	970	U	970	110	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Fluoranthene	490	J	970	100	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Fluorene	970	U	970	110	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Hexachlorobenzene	970	U	970	130	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Indeno[1,2,3-cd]pyrene	270	J	970	120	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Naphthalene	970	U	970	130	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Pentachlorophenol	1900	U	1900	970	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Phenanthrene	270	J	970	140	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Phenol	970	U	970	150	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5
Pyrene	460	J	970	110	ug/Kg	☆	01/17/23 15:51	01/18/23 16:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	01/17/23 15:51	01/18/23 16:43	5
2-Fluorobiphenyl (Surr)	87		60 - 120	01/17/23 15:51	01/18/23 16:43	5
2-Fluorophenol (Surr)	75		52 - 120	01/17/23 15:51	01/18/23 16:43	5
Nitrobenzene-d5 (Surr)	80		53 - 120	01/17/23 15:51	01/18/23 16:43	5
Phenol-d5 (Surr)	86		54 - 120	01/17/23 15:51	01/18/23 16:43	5
p-Terphenyl-d14 (Surr)	106		79 - 130	01/17/23 15:51	01/18/23 16:43	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-3 0-3

Date Collected: 01/13/23 09:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-3

Matrix: Solid

Percent Solids: 86.1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		2.4	0.47	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Barium	39.5		0.59	0.13	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Beryllium	0.23	J	0.24	0.033	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Cadmium	0.094	J	0.24	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Chromium	6.1		0.59	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Copper	9.6		1.2	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Lead	60.6		1.2	0.28	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Manganese	108	B	0.24	0.038	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Nickel	6.1		5.9	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Selenium	4.7	U	4.7	0.47	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Silver	0.71	U	0.71	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1
Zinc	54.4		2.4	0.76	mg/Kg	☆	01/17/23 12:42	01/19/23 00:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35	B	0.023	0.0053	mg/Kg	☆	01/18/23 11:51	01/18/23 14:55	1

Client Sample ID: BH-4 0-3

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-4

Matrix: Solid

Percent Solids: 86.8

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	☆	01/17/23 15:51	01/18/23 17:09	1
2-Methylphenol	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
3-Methylphenol	380	U	380	30	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
4-Methylphenol	380	U	380	23	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Acenaphthene	190	U	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Acenaphthylene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Anthracene	190	U	190	48	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Benzo[a]pyrene	32	J	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Benzo[b]fluoranthene	40	J	190	31	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Benzo[g,h,i]perylene	38	J	190	20	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Benzo[k]fluoranthene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Chrysene	190	U	190	43	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Dibenz(a,h)anthracene	190	U	190	34	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Dibenzofuran	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Fluoranthene	29	J	190	20	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Fluorene	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Indeno[1,2,3-cd]pyrene	34	J	190	24	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Naphthalene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Pentachlorophenol	380	U	380	190	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Phenanthrene	36	J	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Phenol	190	U	190	30	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1
Pyrene	37	J	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		54 - 120	01/17/23 15:51	01/18/23 17:09	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-4 0-3

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-4

Matrix: Solid

Percent Solids: 86.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	97		60 - 120	01/17/23 15:51	01/18/23 17:09	1
2-Fluorophenol (Surr)	81		52 - 120	01/17/23 15:51	01/18/23 17:09	1
Nitrobenzene-d5 (Surr)	87		53 - 120	01/17/23 15:51	01/18/23 17:09	1
Phenol-d5 (Surr)	84		54 - 120	01/17/23 15:51	01/18/23 17:09	1
p-Terphenyl-d14 (Surr)	123		79 - 130	01/17/23 15:51	01/18/23 17:09	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.4		2.3	0.45	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Barium	73.0		0.57	0.12	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Beryllium	0.52		0.23	0.032	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Cadmium	0.32		0.23	0.034	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Chromium	28.1		1.1	0.45	mg/Kg	✱	01/17/23 12:42	01/19/23 18:35	2
Copper	20.4		1.1	0.24	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Lead	10.6		2.3	0.54	mg/Kg	✱	01/17/23 12:42	01/19/23 18:35	2
Manganese	3450		0.45	0.072	mg/Kg	✱	01/17/23 12:42	01/19/23 18:35	2
Nickel	13.9		11.3	0.52	mg/Kg	✱	01/17/23 12:42	01/19/23 18:35	2
Selenium	1.5 J		4.5	0.45	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Silver	0.68 U		0.68	0.23	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1
Zinc	17.1		2.3	0.72	mg/Kg	✱	01/17/23 12:42	01/19/23 00:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040 B		0.022	0.0051	mg/Kg	✱	01/18/23 11:51	01/18/23 14:57	1

Client Sample ID: BH-4 4-5

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-5

Matrix: Solid

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	560 U		560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,1-Dichloroethane	560 U		560	170	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,1-Dichloroethene	560 U		560	190	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,2,4-Trimethylbenzene	560 U		560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,2-Dichlorobenzene	560 U		560	140	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,2-Dichloroethane	560 U		560	230	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,3,5-Trimethylbenzene	560 U		560	170	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,3-Dichlorobenzene	560 U		560	150	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,4-Dichlorobenzene	560 U		560	78	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
1,4-Dioxane	11000 U		11000	2900	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
2-Butanone (MEK)	2800 U		2800	1700	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Acetone	2800 U		2800	2300	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Benzene	560 U		560	110	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Carbon tetrachloride	560 U		560	140	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Chlorobenzene	560 U		560	74	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Chloroform	560 U		560	380	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
cis-1,2-Dichloroethene	560 U		560	150	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Ethylbenzene	560 U		560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Methyl tert-butyl ether	560 U		560	210	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-4 4-5

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-5

Matrix: Solid

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	560	U	560	110	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
n-Butylbenzene	560	U	560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
N-Propylbenzene	560	U	560	150	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
sec-Butylbenzene	560	U	560	210	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Tetrachloroethene	560	U	560	75	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Toluene	560	U	560	150	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
trans-1,2-Dichloroethene	560	U	560	130	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Trichloroethene	560	U	560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Vinyl chloride	560	U	560	190	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
Xylenes, Total	1100	U	1100	310	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4
tert-Butylbenzene	560	U	560	160	ug/Kg	✱	01/18/23 10:35	01/19/23 16:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		53 - 146	01/18/23 10:35	01/19/23 16:26	4
4-Bromofluorobenzene (Surr)	93		49 - 148	01/18/23 10:35	01/19/23 16:26	4
Toluene-d8 (Surr)	95		50 - 149	01/18/23 10:35	01/19/23 16:26	4
Dibromofluoromethane (Surr)	94		60 - 140	01/18/23 10:35	01/19/23 16:26	4

Client Sample ID: BH-5 0-3

Date Collected: 01/13/23 10:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-6

Matrix: Solid

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	✱	01/17/23 15:51	01/18/23 17:34	1
2-Methylphenol	190	U	190	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
3-Methylphenol	380	U	380	30	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
4-Methylphenol	380	U	380	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Acenaphthene	380		190	29	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Acenaphthylene	190	U	190	25	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Anthracene	840		190	48	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Benzo[a]anthracene	1400		190	19	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Benzo[a]pyrene	1200		190	29	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Benzo[b]fluoranthene	1200		190	31	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Benzo[g,h,i]perylene	830		190	21	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Benzo[k]fluoranthene	640		190	25	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Chrysene	1300		190	43	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Dibenz(a,h)anthracene	240		190	34	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Dibenzofuran	220		190	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Fluoranthene	2900		190	21	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Fluorene	390		190	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Hexachlorobenzene	190	U	190	26	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Indeno[1,2,3-cd]pyrene	740		190	24	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Naphthalene	130	J	190	25	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Pentachlorophenol	380	U	380	190	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Phenanthrene	3100		190	29	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Phenol	190	U	190	30	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1
Pyrene	3100		190	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:34	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-5 0-3

Date Collected: 01/13/23 10:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-6

Matrix: Solid

Percent Solids: 85.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	01/17/23 15:51	01/18/23 17:34	1
2-Fluorobiphenyl (Surr)	102		60 - 120	01/17/23 15:51	01/18/23 17:34	1
2-Fluorophenol (Surr)	86		52 - 120	01/17/23 15:51	01/18/23 17:34	1
Nitrobenzene-d5 (Surr)	92		53 - 120	01/17/23 15:51	01/18/23 17:34	1
Phenol-d5 (Surr)	86		54 - 120	01/17/23 15:51	01/18/23 17:34	1
p-Terphenyl-d14 (Surr)	124		79 - 130	01/17/23 15:51	01/18/23 17:34	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	44.0		2.4	0.47	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Barium	141		0.59	0.13	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Beryllium	0.89		0.24	0.033	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Cadmium	0.35		0.24	0.035	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Chromium	78.0		1.2	0.47	mg/Kg	✱	01/17/23 12:42	01/19/23 18:38	2
Copper	63.7		1.2	0.25	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Lead	31.6		2.4	0.57	mg/Kg	✱	01/17/23 12:42	01/19/23 18:38	2
Manganese	6080	B	0.47	0.076	mg/Kg	✱	01/17/23 12:42	01/19/23 18:38	2
Nickel	49.4		11.8	0.54	mg/Kg	✱	01/17/23 12:42	01/19/23 18:38	2
Selenium	1.3	J	4.7	0.47	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Silver	0.34	J	0.71	0.24	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1
Zinc	22.7		2.4	0.76	mg/Kg	✱	01/17/23 12:42	01/19/23 00:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051	B	0.024	0.0055	mg/Kg	✱	01/18/23 11:51	01/18/23 14:58	1

Client Sample ID: BH-6 0-3

Date Collected: 01/13/23 10:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-7

Matrix: Solid

Percent Solids: 75.9

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	71	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
2-Methylphenol	220	U	220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
3-Methylphenol	420	U	420	33	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
4-Methylphenol	420	U	420	26	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Acenaphthene	110	J	220	32	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Acenaphthylene	36	J	220	28	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Anthracene	370		220	54	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Benzo[a]anthracene	1300		220	22	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Benzo[a]pyrene	1300		220	32	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Benzo[b]fluoranthene	1300		220	35	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Benzo[g,h,i]perylene	850		220	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Benzo[k]fluoranthene	720		220	28	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Chrysene	1400		220	49	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Dibenz(a,h)anthracene	270		220	39	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Dibenzofuran	74	J	220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Fluoranthene	2200		220	23	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Fluorene	110	J	220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Hexachlorobenzene	220	U	220	30	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1
Indeno[1,2,3-cd]pyrene	800		220	27	ug/Kg	✱	01/17/23 15:51	01/18/23 17:59	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-6 0-3

Date Collected: 01/13/23 10:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-7

Matrix: Solid

Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	71	J	220	28	ug/Kg	☆	01/17/23 15:51	01/18/23 17:59	1
Pentachlorophenol	420	U	420	220	ug/Kg	☆	01/17/23 15:51	01/18/23 17:59	1
Phenanthrene	1600		220	32	ug/Kg	☆	01/17/23 15:51	01/18/23 17:59	1
Phenol	220	U	220	33	ug/Kg	☆	01/17/23 15:51	01/18/23 17:59	1
Pyrene	2300		220	26	ug/Kg	☆	01/17/23 15:51	01/18/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		54 - 120				01/17/23 15:51	01/18/23 17:59	1
2-Fluorobiphenyl (Surr)	110		60 - 120				01/17/23 15:51	01/18/23 17:59	1
2-Fluorophenol (Surr)	91		52 - 120				01/17/23 15:51	01/18/23 17:59	1
Nitrobenzene-d5 (Surr)	99		53 - 120				01/17/23 15:51	01/18/23 17:59	1
Phenol-d5 (Surr)	95		54 - 120				01/17/23 15:51	01/18/23 17:59	1
p-Terphenyl-d14 (Surr)	126		79 - 130				01/17/23 15:51	01/18/23 17:59	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.2		2.7	0.55	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Barium	248		0.68	0.15	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Beryllium	0.78		0.27	0.038	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Cadmium	0.62		0.27	0.041	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Chromium	13.6		0.68	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Copper	54.6		1.4	0.29	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Lead	386		1.4	0.33	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Manganese	198	B	0.27	0.044	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Nickel	16.7		6.8	0.32	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Selenium	1.0	J	5.5	0.55	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Silver	0.34	J	0.82	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1
Zinc	174		2.7	0.88	mg/Kg	☆	01/17/23 12:42	01/19/23 00:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	B	0.026	0.0060	mg/Kg	☆	01/18/23 11:51	01/18/23 15:02	1

Client Sample ID: BH-7 0-3

Date Collected: 01/13/23 10:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-8

Matrix: Solid

Percent Solids: 79.2

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	68	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
2-Methylphenol	210	U	210	25	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
3-Methylphenol	410	U	410	32	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
4-Methylphenol	410	U	410	25	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Acenaphthene	210	U	210	31	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Acenaphthylene	210	U	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Anthracene	210	U	210	52	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Benzo[a]anthracene	86	J	210	21	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Benzo[a]pyrene	130	J	210	31	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Benzo[b]fluoranthene	170	J	210	34	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Benzo[g,h,i]perylene	150	J	210	22	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Benzo[k]fluoranthene	71	J	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-7 0-3

Lab Sample ID: 480-205498-8

Date Collected: 01/13/23 10:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	130	J	210	47	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Dibenz(a,h)anthracene	47	J	210	37	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Dibenzofuran	210	U	210	25	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Fluoranthene	140	J	210	22	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Fluorene	210	U	210	25	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Hexachlorobenzene	210	U	210	29	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Indeno[1,2,3-cd]pyrene	110	J	210	26	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Naphthalene	210	U	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Pentachlorophenol	410	U	410	210	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Phenanthrene	110	J	210	31	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Phenol	210	U	210	32	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1
Pyrene	170	J	210	25	ug/Kg	☆	01/17/23 15:51	01/18/23 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	96		54 - 120	01/17/23 15:51	01/18/23 18:24	1
2-Fluorobiphenyl (Surr)	94		60 - 120	01/17/23 15:51	01/18/23 18:24	1
2-Fluorophenol (Surr)	82		52 - 120	01/17/23 15:51	01/18/23 18:24	1
Nitrobenzene-d5 (Surr)	87		53 - 120	01/17/23 15:51	01/18/23 18:24	1
Phenol-d5 (Surr)	81		54 - 120	01/17/23 15:51	01/18/23 18:24	1
p-Terphenyl-d14 (Surr)	115		79 - 130	01/17/23 15:51	01/18/23 18:24	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32.4	F1 F2	2.6	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Barium	109		0.65	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Beryllium	1.1		0.26	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Cadmium	0.37		0.26	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Chromium	17.4	F2	0.65	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Copper	41.0	F1 F2	1.3	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Lead	90.1	F1 F2	1.3	0.31	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Manganese	261	B F2	0.26	0.042	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Nickel	23.3		6.5	0.30	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Selenium	1.1	J	5.2	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Silver	0.78	U	0.78	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1
Zinc	91.4	F1 F2	2.6	0.83	mg/Kg	☆	01/17/23 12:42	01/19/23 00:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.026	0.0060	mg/Kg	☆	01/18/23 11:51	01/18/23 15:03	1

Client Sample ID: BH-8 0-3

Lab Sample ID: 480-205498-9

Date Collected: 01/13/23 11:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	13000	U	13000	7000	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
2-Methylphenol	22000	U	22000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
3-Methylphenol	42000	U	42000	3300	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
4-Methylphenol	42000	U	42000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Acenaphthene	22000	U	22000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-8 0-3

Lab Sample ID: 480-205498-9

Date Collected: 01/13/23 11:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	22000	U	22000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Anthracene	22000	U	22000	5400	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Benzo[a]anthracene	22000	U	22000	2200	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Benzo[a]pyrene	22000	U	22000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Benzo[b]fluoranthene	22000	U	22000	3400	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Benzo[g,h,i]perylene	22000	U	22000	2300	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Benzo[k]fluoranthene	22000	U	22000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Chrysene	22000	U	22000	4800	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Dibenz(a,h)anthracene	22000	U	22000	3800	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Dibenzofuran	22000	U	22000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Fluoranthene	3500	J	22000	2300	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Fluorene	22000	U	22000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Hexachlorobenzene	22000	U	22000	2900	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Indeno[1,2,3-cd]pyrene	22000	U	22000	2700	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Naphthalene	22000	U	22000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Pentachlorophenol	42000	U	42000	22000	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Phenanthrene	22000	U	22000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Phenol	22000	U	22000	3300	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10
Pyrene	3200	J	22000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 18:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	01/17/23 15:51	01/18/23 18:48	10
2-Fluorobiphenyl (Surr)	109		60 - 120	01/17/23 15:51	01/18/23 18:48	10
2-Fluorophenol (Surr)	103		52 - 120	01/17/23 15:51	01/18/23 18:48	10
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120	01/17/23 15:51	01/18/23 18:48	10
Phenol-d5 (Surr)	102		54 - 120	01/17/23 15:51	01/18/23 18:48	10
p-Terphenyl-d14 (Surr)	104		79 - 130	01/17/23 15:51	01/18/23 18:48	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		2.6	0.53	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Barium	90.7		0.66	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Beryllium	0.85		0.26	0.037	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Cadmium	0.17	J	0.26	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Chromium	6.5		0.66	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Copper	31.8		1.3	0.28	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Lead	47.9		1.3	0.32	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Manganese	290	B	0.26	0.042	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Nickel	8.4		6.6	0.30	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Selenium	5.3	U	5.3	0.53	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Silver	0.79	U	0.79	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1
Zinc	39.8		2.6	0.84	mg/Kg	☆	01/17/23 12:42	01/19/23 01:15	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	B	0.025	0.0058	mg/Kg	☆	01/18/23 11:51	01/18/23 15:05	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-9 0-3

Lab Sample ID: 480-205498-10

Date Collected: 01/13/23 11:15

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 81.2

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	☆	01/17/23 15:51	01/18/23 15:27	5
2-Methylphenol	1000	U	1000	120	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
3-Methylphenol	2000	U	2000	160	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
4-Methylphenol	2000	U	2000	120	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Acenaphthene	1000	U	1000	150	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Acenaphthylene	1000	U	1000	130	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Anthracene	1000	U	1000	250	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Benzo[a]anthracene	1000	U	1000	100	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Benzo[a]pyrene	180	J	1000	150	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Benzo[b]fluoranthene	210	J	1000	160	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Benzo[g,h,i]perylene	150	J	1000	110	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Benzo[k]fluoranthene	140	J	1000	130	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Chrysene	1000	U	1000	230	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Dibenz(a,h)anthracene	1000	U	1000	180	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Dibenzofuran	1000	U	1000	120	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Fluoranthene	390	J	1000	110	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Fluorene	1000	U	1000	120	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Hexachlorobenzene	1000	U	1000	140	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Indeno[1,2,3-cd]pyrene	130	J	1000	130	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Naphthalene	1000	U	1000	130	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Pentachlorophenol	2000	U	2000	1000	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Phenanthrene	250	J	1000	150	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Phenol	1000	U	1000	160	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5
Pyrene	350	J	1000	120	ug/Kg	☆	01/17/23 15:51	01/18/23 15:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	91		54 - 120	01/17/23 15:51	01/18/23 15:27	5
2-Fluorobiphenyl (Surr)	105		60 - 120	01/17/23 15:51	01/18/23 15:27	5
2-Fluorophenol (Surr)	93		52 - 120	01/17/23 15:51	01/18/23 15:27	5
Nitrobenzene-d5 (Surr)	96		53 - 120	01/17/23 15:51	01/18/23 15:27	5
Phenol-d5 (Surr)	93		54 - 120	01/17/23 15:51	01/18/23 15:27	5
p-Terphenyl-d14 (Surr)	105		79 - 130	01/17/23 15:51	01/18/23 15:27	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.7		2.5	0.51	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Barium	155		0.63	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Beryllium	0.80		0.25	0.035	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Cadmium	0.39		0.25	0.038	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Chromium	26.8		0.63	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Copper	32.1		1.3	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Lead	104		1.3	0.30	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Manganese	302	B	0.25	0.040	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Nickel	33.7		6.3	0.29	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Selenium	0.65	J	5.1	0.51	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Silver	0.76	U	0.76	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1
Zinc	105		2.5	0.81	mg/Kg	☆	01/17/23 12:42	01/19/23 01:18	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-9 0-3

Lab Sample ID: 480-205498-10

Date Collected: 01/13/23 11:15

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 81.2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15	B	0.021	0.0049	mg/Kg	☆	01/18/23 11:51	01/18/23 15:06	1

Client Sample ID: BH-10 0-2

Lab Sample ID: 480-205498-11

Date Collected: 01/13/23 11:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 82.2

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	☆	01/17/23 15:51	01/18/23 19:13	1
2-Methylphenol	210	U	210	24	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
3-Methylphenol	400	U	400	31	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
4-Methylphenol	400	U	400	24	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Acenaphthene	49	J	210	30	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Acenaphthylene	210	U	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Anthracene	190	J	210	51	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Benzo[a]anthracene	390		210	21	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Benzo[a]pyrene	380		210	30	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Benzo[b]fluoranthene	420		210	33	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Benzo[g,h,i]perylene	260		210	22	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Benzo[k]fluoranthene	200	J	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Chrysene	430		210	46	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Dibenz(a,h)anthracene	84	J	210	36	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Dibenzofuran	51	J	210	24	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Fluoranthene	800		210	22	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Fluorene	64	J	210	24	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Hexachlorobenzene	210	U	210	28	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Indeno[1,2,3-cd]pyrene	250		210	25	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Naphthalene	39	J	210	27	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Pentachlorophenol	400	U	400	210	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Phenanthrene	770		210	30	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Phenol	210	U	210	31	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1
Pyrene	830		210	24	ug/Kg	☆	01/17/23 15:51	01/18/23 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		54 - 120	01/17/23 15:51	01/18/23 19:13	1
2-Fluorobiphenyl (Surr)	92		60 - 120	01/17/23 15:51	01/18/23 19:13	1
2-Fluorophenol (Surr)	75		52 - 120	01/17/23 15:51	01/18/23 19:13	1
Nitrobenzene-d5 (Surr)	79		53 - 120	01/17/23 15:51	01/18/23 19:13	1
Phenol-d5 (Surr)	76		54 - 120	01/17/23 15:51	01/18/23 19:13	1
p-Terphenyl-d14 (Surr)	112		79 - 130	01/17/23 15:51	01/18/23 19:13	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.5		2.5	0.49	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Barium	180		0.61	0.13	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Beryllium	0.92		0.25	0.034	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Cadmium	0.46		0.25	0.037	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Chromium	26.6		0.61	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Copper	33.2		1.2	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Lead	281		1.2	0.29	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-10 0-2

Lab Sample ID: 480-205498-11

Date Collected: 01/13/23 11:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	375	B	0.25	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Nickel	31.6		6.1	0.28	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Selenium	4.9	U	4.9	0.49	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Silver	0.74	U	0.74	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1
Zinc	176		2.5	0.79	mg/Kg	☆	01/17/23 12:42	01/19/23 01:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15	B	0.022	0.0051	mg/Kg	☆	01/18/23 11:51	01/18/23 15:07	1

Client Sample ID: BH-11 0-2

Lab Sample ID: 480-205498-12

Date Collected: 01/13/23 12:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	14000	U	14000	7600	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
2-Methylphenol	24000	U	24000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
3-Methylphenol	46000	U	46000	3600	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
4-Methylphenol	46000	U	46000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Acenaphthene	24000	U	24000	3500	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Acenaphthylene	24000	U	24000	3000	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Anthracene	24000	U	24000	5800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Benzo[a]anthracene	24000	U	24000	2400	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Benzo[a]pyrene	24000	U	24000	3500	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Benzo[b]fluoranthene	24000	U	24000	3700	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Benzo[g,h,i]perylene	24000	U	24000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Benzo[k]fluoranthene	24000	U	24000	3000	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Chrysene	24000	U	24000	5300	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Dibenz(a,h)anthracene	24000	U	24000	4200	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Dibenzofuran	24000	U	24000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Fluoranthene	6300	J	24000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Fluorene	24000	U	24000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Hexachlorobenzene	24000	U	24000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Indeno[1,2,3-cd]pyrene	24000	U	24000	2900	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Naphthalene	24000	U	24000	3000	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Pentachlorophenol	46000	U	46000	24000	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Phenanthrene	5800	J	24000	3500	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Phenol	24000	U	24000	3600	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10
Pyrene	5000	J	24000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 19:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	01/17/23 15:51	01/18/23 19:38	10
2-Fluorobiphenyl (Surr)	120		60 - 120	01/17/23 15:51	01/18/23 19:38	10
2-Fluorophenol (Surr)	0	S1-	52 - 120	01/17/23 15:51	01/18/23 19:38	10
Nitrobenzene-d5 (Surr)	83		53 - 120	01/17/23 15:51	01/18/23 19:38	10
Phenol-d5 (Surr)	89		54 - 120	01/17/23 15:51	01/18/23 19:38	10
p-Terphenyl-d14 (Surr)	97		79 - 130	01/17/23 15:51	01/18/23 19:38	10

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-11 0-2

Lab Sample ID: 480-205498-12

Date Collected: 01/13/23 12:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 78.5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10.0		2.6	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Barium	194		0.65	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Beryllium	0.74		0.26	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Cadmium	0.95		0.26	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Chromium	33.1		0.65	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Copper	58.6		1.3	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Lead	393		1.3	0.31	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Manganese	320	B	0.26	0.041	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Nickel	44.6		6.5	0.30	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Selenium	5.2	U	5.2	0.52	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Silver	0.78	U	0.78	0.26	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1
Zinc	261		2.6	0.83	mg/Kg	☆	01/17/23 12:42	01/19/23 01:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.32	B	0.024	0.0056	mg/Kg	☆	01/18/23 11:51	01/18/23 15:08	1

Client Sample ID: BH-12 0-2

Lab Sample ID: 480-205498-13

Date Collected: 01/13/23 12:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 85.9

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	63	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
2-Methylphenol	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
3-Methylphenol	380	U	380	30	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
4-Methylphenol	380	U	380	23	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Acenaphthene	420		190	29	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Acenaphthylene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Anthracene	900		190	48	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Benzo[a]anthracene	1500		190	19	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Benzo[a]pyrene	1200		190	29	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Benzo[b]fluoranthene	1100		190	31	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Benzo[g,h,i]perylene	740		190	21	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Benzo[k]fluoranthene	630		190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Chrysene	1500		190	44	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Dibenz(a,h)anthracene	180	J	190	34	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Dibenzofuran	160	J	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Fluoranthene	2900		190	21	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Fluorene	340		190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Indeno[1,2,3-cd]pyrene	690		190	24	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Naphthalene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Pentachlorophenol	380	U	380	190	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Phenanthrene	3600		190	29	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Phenol	190	U	190	30	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1
Pyrene	3600		190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		54 - 120	01/17/23 15:51	01/18/23 20:02	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-12 0-2

Lab Sample ID: 480-205498-13

Date Collected: 01/13/23 12:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 85.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	96		60 - 120	01/17/23 15:51	01/18/23 20:02	1
2-Fluorophenol (Surr)	79		52 - 120	01/17/23 15:51	01/18/23 20:02	1
Nitrobenzene-d5 (Surr)	89		53 - 120	01/17/23 15:51	01/18/23 20:02	1
Phenol-d5 (Surr)	79		54 - 120	01/17/23 15:51	01/18/23 20:02	1
p-Terphenyl-d14 (Surr)	119		79 - 130	01/17/23 15:51	01/18/23 20:02	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		2.4	0.48	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Barium	203		0.60	0.13	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Beryllium	0.50		0.24	0.034	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Cadmium	0.63		0.24	0.036	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Chromium	16.5		0.60	0.24	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Copper	30.9		1.2	0.25	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Lead	447		1.2	0.29	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Manganese	365 B		0.24	0.038	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Nickel	15.6		6.0	0.28	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Selenium	4.8 U		4.8	0.48	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Silver	0.39 J		0.72	0.24	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1
Zinc	284		2.4	0.77	mg/Kg	✱	01/17/23 12:42	01/19/23 01:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0 B		0.022	0.0050	mg/Kg	✱	01/18/23 11:51	01/18/23 15:10	1

Client Sample ID: BH-13 0-2

Lab Sample ID: 480-205498-14

Date Collected: 01/13/23 13:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 75.8

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	71	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
2-Methylphenol	220 U		220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
3-Methylphenol	430 U		430	34	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
4-Methylphenol	430 U		430	26	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Acenaphthene	220 U		220	32	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Acenaphthylene	220 U		220	29	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Anthracene	220 U		220	54	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Benzo[a]anthracene	93 J		220	22	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Benzo[a]pyrene	130 J		220	32	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Benzo[b]fluoranthene	150 J		220	35	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Benzo[g,h,i]perylene	95 J		220	23	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Benzo[k]fluoranthene	61 J		220	29	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Chrysene	140 J		220	49	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Dibenz(a,h)anthracene	220 U		220	39	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Dibenzofuran	220 U		220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Fluoranthene	250		220	23	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Fluorene	220 U		220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Hexachlorobenzene	220 U		220	30	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Indeno[1,2,3-cd]pyrene	95 J		220	27	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-13 0-2

Lab Sample ID: 480-205498-14

Date Collected: 01/13/23 13:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	220	U	220	29	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Pentachlorophenol	430	U	430	220	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Phenanthrene	190	J	220	32	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Phenol	220	U	220	34	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1
Pyrene	260		220	26	ug/Kg	✱	01/17/23 15:51	01/18/23 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		54 - 120	01/17/23 15:51	01/18/23 20:27	1
2-Fluorobiphenyl (Surr)	94		60 - 120	01/17/23 15:51	01/18/23 20:27	1
2-Fluorophenol (Surr)	77		52 - 120	01/17/23 15:51	01/18/23 20:27	1
Nitrobenzene-d5 (Surr)	84		53 - 120	01/17/23 15:51	01/18/23 20:27	1
Phenol-d5 (Surr)	80		54 - 120	01/17/23 15:51	01/18/23 20:27	1
p-Terphenyl-d14 (Surr)	117		79 - 130	01/17/23 15:51	01/18/23 20:27	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.1		2.7	0.55	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Barium	633		0.68	0.15	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Beryllium	0.89		0.27	0.038	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Cadmium	0.67		0.27	0.041	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Chromium	28.2		0.68	0.27	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Copper	70.8		1.4	0.29	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Lead	1120		1.4	0.33	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Manganese	762	B	0.27	0.044	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Nickel	30.1		6.8	0.31	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Selenium	1.1	J	5.5	0.55	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Silver	0.49	J	0.82	0.27	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1
Zinc	438		2.7	0.87	mg/Kg	✱	01/17/23 12:42	01/19/23 01:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.7	B	0.27	0.062	mg/Kg	✱	01/18/23 11:51	01/18/23 16:14	10

Client Sample ID: BH-14 1-2

Lab Sample ID: 480-205498-15

Date Collected: 01/13/23 13:15

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 84.6

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	✱	01/17/23 15:51	01/18/23 20:52	5
2-Methylphenol	980	U	980	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
3-Methylphenol	1900	U	1900	150	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
4-Methylphenol	1900	U	1900	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Acenaphthene	980	U	980	140	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Acenaphthylene	130	J	980	130	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Anthracene	980	U	980	240	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Benzo[a]anthracene	440	J	980	98	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Benzo[a]pyrene	570	J	980	140	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Benzo[b]fluoranthene	830	J	980	160	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Benzo[g,h,i]perylene	380	J	980	100	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Benzo[k]fluoranthene	290	J	980	130	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-14 1-2

Lab Sample ID: 480-205498-15

Date Collected: 01/13/23 13:15

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	520	J	980	220	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Dibenz(a,h)anthracene	980	U	980	170	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Dibenzofuran	980	U	980	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Fluoranthene	610	J	980	100	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Fluorene	980	U	980	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Hexachlorobenzene	980	U	980	130	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Indeno[1,2,3-cd]pyrene	370	J	980	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Naphthalene	980	U	980	130	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Pentachlorophenol	1900	U	1900	980	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Phenanthrene	200	J	980	140	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Phenol	980	U	980	150	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5
Pyrene	510	J	980	120	ug/Kg	✱	01/17/23 15:51	01/18/23 20:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		54 - 120	01/17/23 15:51	01/18/23 20:52	5
2-Fluorobiphenyl (Surr)	88		60 - 120	01/17/23 15:51	01/18/23 20:52	5
2-Fluorophenol (Surr)	75		52 - 120	01/17/23 15:51	01/18/23 20:52	5
Nitrobenzene-d5 (Surr)	76		53 - 120	01/17/23 15:51	01/18/23 20:52	5
Phenol-d5 (Surr)	82		54 - 120	01/17/23 15:51	01/18/23 20:52	5
p-Terphenyl-d14 (Surr)	99		79 - 130	01/17/23 15:51	01/18/23 20:52	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.3		2.5	0.49	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Barium	89.7		0.61	0.14	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Beryllium	0.80		0.25	0.034	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Cadmium	0.23	J	0.25	0.037	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Chromium	11.0		0.61	0.25	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Copper	49.0		1.2	0.26	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Lead	70.6		1.2	0.29	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Manganese	288	B	0.25	0.039	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Nickel	20.7		6.1	0.28	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Selenium	4.9	U	4.9	0.49	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Silver	0.74	U	0.74	0.25	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1
Zinc	93.1		2.5	0.79	mg/Kg	✱	01/17/23 12:42	01/19/23 01:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44	B	0.024	0.0056	mg/Kg	✱	01/18/23 11:51	01/18/23 15:14	1

Client Sample ID: BH-15 1-2

Lab Sample ID: 480-205498-16

Date Collected: 01/13/23 13:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 84.9

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	64	ug/Kg	✱	01/17/23 15:51	01/18/23 21:17	1
2-Methylphenol	200	U	200	23	ug/Kg	✱	01/17/23 15:51	01/18/23 21:17	1
3-Methylphenol	380	U	380	30	ug/Kg	✱	01/17/23 15:51	01/18/23 21:17	1
4-Methylphenol	380	U	380	23	ug/Kg	✱	01/17/23 15:51	01/18/23 21:17	1
Acenaphthene	200	U	200	29	ug/Kg	✱	01/17/23 15:51	01/18/23 21:17	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-15 1-2

Lab Sample ID: 480-205498-16

Date Collected: 01/13/23 13:30

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	28	J	200	26	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Anthracene	200	U	200	49	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Benzo[a]anthracene	280		200	20	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Benzo[a]pyrene	270		200	29	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Benzo[b]fluoranthene	340		200	31	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Benzo[g,h,i]perylene	160	J	200	21	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Benzo[k]fluoranthene	160	J	200	26	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Chrysene	300		200	44	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Dibenz(a,h)anthracene	51	J	200	35	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Dibenzofuran	30	J	200	23	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Fluoranthene	310		200	21	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Fluorene	200	U	200	23	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Hexachlorobenzene	200	U	200	27	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Indeno[1,2,3-cd]pyrene	160	J	200	24	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Naphthalene	41	J	200	26	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Pentachlorophenol	380	U	380	200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Phenanthrene	230		200	29	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Phenol	200	U	200	30	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1
Pyrene	350		200	23	ug/Kg	☆	01/17/23 15:51	01/18/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		54 - 120	01/17/23 15:51	01/18/23 21:17	1
2-Fluorobiphenyl (Surr)	101		60 - 120	01/17/23 15:51	01/18/23 21:17	1
2-Fluorophenol (Surr)	90		52 - 120	01/17/23 15:51	01/18/23 21:17	1
Nitrobenzene-d5 (Surr)	99		53 - 120	01/17/23 15:51	01/18/23 21:17	1
Phenol-d5 (Surr)	89		54 - 120	01/17/23 15:51	01/18/23 21:17	1
p-Terphenyl-d14 (Surr)	125		79 - 130	01/17/23 15:51	01/18/23 21:17	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.9		2.4	0.49	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Barium	131		0.61	0.13	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Beryllium	0.95		0.24	0.034	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Cadmium	0.40		0.24	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Chromium	12.9		0.61	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Copper	84.5		1.2	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Lead	192		1.2	0.29	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Manganese	336	B	0.24	0.039	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Nickel	24.6		6.1	0.28	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Selenium	1.4	J	4.9	0.49	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Silver	0.73	U	0.73	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1
Zinc	99.0		2.4	0.78	mg/Kg	☆	01/17/23 12:42	01/19/23 01:53	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27	B	0.023	0.0053	mg/Kg	☆	01/18/23 11:51	01/18/23 15:15	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-16 0--4

Lab Sample ID: 480-205498-17

Date Collected: 01/13/23 13:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	12000	U	12000	6800	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
2-Methylphenol	21000	U	21000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
3-Methylphenol	41000	U	41000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
4-Methylphenol	41000	U	41000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Acenaphthene	21000	U	21000	3100	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Acenaphthylene	21000	U	21000	2700	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Anthracene	21000	U	21000	5200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Benzo[a]anthracene	2300	J	21000	2100	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Benzo[a]pyrene	3100	J	21000	3100	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Benzo[b]fluoranthene	21000	U	21000	3300	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Benzo[g,h,i]perylene	21000	U	21000	2200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Benzo[k]fluoranthene	21000	U	21000	2700	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Chrysene	21000	U	21000	4700	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Dibenz(a,h)anthracene	21000	U	21000	3700	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Dibenzofuran	21000	U	21000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Fluoranthene	6000	J	21000	2200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Fluorene	21000	U	21000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Hexachlorobenzene	21000	U	21000	2800	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Indeno[1,2,3-cd]pyrene	21000	U	21000	2600	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Naphthalene	21000	U	21000	2700	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Pentachlorophenol	41000	U	41000	21000	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Phenanthrene	4800	J	21000	3100	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Phenol	21000	U	21000	3200	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10
Pyrene	4500	J	21000	2500	ug/Kg	☆	01/17/23 15:51	01/18/23 21:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	S1-	54 - 120	01/17/23 15:51	01/18/23 21:41	10
2-Fluorobiphenyl (Surr)	134	S1+	60 - 120	01/17/23 15:51	01/18/23 21:41	10
2-Fluorophenol (Surr)	0	S1-	52 - 120	01/17/23 15:51	01/18/23 21:41	10
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120	01/17/23 15:51	01/18/23 21:41	10
Phenol-d5 (Surr)	120		54 - 120	01/17/23 15:51	01/18/23 21:41	10
p-Terphenyl-d14 (Surr)	102		79 - 130	01/17/23 15:51	01/18/23 21:41	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	62.2		2.5	0.51	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Barium	603		0.64	0.14	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Beryllium	0.61		0.25	0.036	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Cadmium	1.6		0.25	0.038	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Chromium	145		3.2	1.3	mg/Kg	☆	01/17/23 12:42	01/19/23 18:43	5
Copper	114		1.3	0.27	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Lead	714		6.4	1.5	mg/Kg	☆	01/17/23 12:42	01/19/23 18:43	5
Manganese	1910	B	1.3	0.20	mg/Kg	☆	01/17/23 12:42	01/19/23 18:43	5
Nickel	44.1		31.9	1.5	mg/Kg	☆	01/17/23 12:42	01/19/23 18:43	5
Selenium	3.9	J	5.1	0.51	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Silver	0.76	U	0.76	0.25	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1
Zinc	376		2.5	0.82	mg/Kg	☆	01/17/23 12:42	01/19/23 01:57	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-16 0--4

Lab Sample ID: 480-205498-17

Date Collected: 01/13/23 13:45

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 79.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30	B	0.025	0.0057	mg/Kg	☆	01/18/23 11:51	01/18/23 15:19	1

Client Sample ID: BH-4 4-5

Lab Sample ID: 480-205498-18

Date Collected: 01/13/23 10:00

Matrix: Water

Date Received: 01/14/23 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			01/18/23 18:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/18/23 18:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/18/23 18:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/18/23 18:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/18/23 18:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/18/23 18:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/18/23 18:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/18/23 18:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/18/23 18:55	1
1,4-Dioxane	40	U	40	9.3	ug/L			01/18/23 18:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/18/23 18:55	1
Acetone	3.4	J	10	3.0	ug/L			01/18/23 18:55	1
Benzene	1.0	U	1.0	0.41	ug/L			01/18/23 18:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/18/23 18:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/18/23 18:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/18/23 18:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/18/23 18:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/18/23 18:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/18/23 18:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/18/23 18:55	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			01/18/23 18:55	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			01/18/23 18:55	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			01/18/23 18:55	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			01/18/23 18:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/18/23 18:55	1
Toluene	1.0	U	1.0	0.51	ug/L			01/18/23 18:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/18/23 18:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/18/23 18:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/18/23 18:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/18/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		01/18/23 18:55	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/18/23 18:55	1
Dibromofluoromethane (Surr)	103		75 - 123		01/18/23 18:55	1
Toluene-d8 (Surr)	95		80 - 120		01/18/23 18:55	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-17 0-4

Lab Sample ID: 480-205498-19

Date Collected: 01/13/23 14:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 87.5

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	62	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
2-Methylphenol	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
3-Methylphenol	370	U	370	29	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
4-Methylphenol	370	U	370	23	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Acenaphthene	190	U	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Acenaphthylene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Anthracene	190	U	190	47	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Benzo[a]anthracene	190	U	190	19	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Benzo[a]pyrene	190	U	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Benzo[b]fluoranthene	190	U	190	30	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Benzo[g,h,i]perylene	190	U	190	20	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Benzo[k]fluoranthene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Chrysene	190	U	190	43	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Dibenz(a,h)anthracene	190	U	190	34	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Dibenzofuran	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Fluoranthene	27	J	190	20	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Fluorene	190	U	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Hexachlorobenzene	190	U	190	26	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Indeno[1,2,3-cd]pyrene	190	U	190	24	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Naphthalene	190	U	190	25	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Pentachlorophenol	370	U	370	190	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Phenanthrene	190	U	190	28	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Phenol	190	U	190	29	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1
Pyrene	27	J	190	23	ug/Kg	☆	01/17/23 15:51	01/18/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		54 - 120	01/17/23 15:51	01/18/23 22:06	1
2-Fluorobiphenyl (Surr)	100		60 - 120	01/17/23 15:51	01/18/23 22:06	1
2-Fluorophenol (Surr)	85		52 - 120	01/17/23 15:51	01/18/23 22:06	1
Nitrobenzene-d5 (Surr)	91		53 - 120	01/17/23 15:51	01/18/23 22:06	1
Phenol-d5 (Surr)	86		54 - 120	01/17/23 15:51	01/18/23 22:06	1
p-Terphenyl-d14 (Surr)	118		79 - 130	01/17/23 15:51	01/18/23 22:06	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.5		2.3	0.46	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Barium	161		0.57	0.13	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Beryllium	1.2		0.23	0.032	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Cadmium	0.45		0.23	0.034	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Chromium	51.9		1.1	0.46	mg/Kg	☆	01/17/23 12:42	01/19/23 18:46	2
Copper	37.1		1.1	0.24	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Lead	12.0		2.3	0.55	mg/Kg	☆	01/17/23 12:42	01/19/23 18:46	2
Manganese	9770	B	0.46	0.073	mg/Kg	☆	01/17/23 12:42	01/19/23 18:46	2
Nickel	22.9		11.4	0.53	mg/Kg	☆	01/17/23 12:42	01/19/23 18:46	2
Selenium	3.5	J	4.6	0.46	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Silver	0.38	J	0.69	0.23	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1
Zinc	41.7		2.3	0.73	mg/Kg	☆	01/17/23 12:42	01/19/23 02:01	1

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Client Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-17 0-4

Lab Sample ID: 480-205498-19

Date Collected: 01/13/23 14:00

Matrix: Solid

Date Received: 01/14/23 09:15

Percent Solids: 87.5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	J B	0.024	0.0055	mg/Kg	☼	01/18/23 11:51	01/18/23 15:21	1

Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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 (53-146)	BFB (49-148)	TOL (50-149)	DBFM (60-140)
480-205498-5	BH-4 4-5	98	93	95	94
LCS 480-656328/1-A	Lab Control Sample	94	93	96	93
MB 480-656328/3-A	Method Blank	96	95	99	91

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-205498-18	BH-4 4-5	115	99	103	95
LCS 480-656325/5	Lab Control Sample	108	100	99	97
MB 480-656325/7	Method Blank	112	99	103	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)
480-205498-1	BH-1 0-2	87	99	89	78	87	113
480-205498-2	BH-2 0-3	111	98	83	83	94	108
480-205498-3	BH-3 0-3	85	87	75	80	86	106
480-205498-4	BH-4 0-3	93	97	81	87	84	123
480-205498-6	BH-5 0-3	98	102	86	92	86	124
480-205498-7	BH-6 0-3	109	110	91	99	95	126
480-205498-8	BH-7 0-3	96	94	82	87	81	115
480-205498-9	BH-8 0-3	0 S1-	109	103	0 S1-	102	104
480-205498-10	BH-9 0-3	91	105	93	96	93	105
480-205498-10 MS	BH-9 0-3	105	93	79	82	87	100
480-205498-10 MSD	BH-9 0-3	102	99	84	87	87	102
480-205498-11	BH-10 0-2	87	92	75	79	76	112
480-205498-12	BH-11 0-2	0 S1-	120	0 S1-	83	89	97
480-205498-13	BH-12 0-2	90	96	79	89	79	119
480-205498-14	BH-13 0-2	86	94	77	84	80	117
480-205498-15	BH-14 1-2	80	88	75	76	82	99
480-205498-16	BH-15 1-2	101	101	90	99	89	125
480-205498-17	BH-16 0-4	0 S1-	134 S1+	0 S1-	0 S1-	120	102
480-205498-19	BH-17 0-4	89	100	85	91	86	118

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Surrogate Summary

Client: Brydges Engineering in Environment & Energy DPC

Job ID: 480-205498-1

Project/Site: Regan Development - Dunkirk, NY

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
LCS 480-656244/2-A	Lab Control Sample	112	104	90	94	94	120
MB 480-656244/1-A	Method Blank	81	87	78	81	84	114

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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: MB 480-656325/7

Matrix: Water

Analysis Batch: 656325

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			01/18/23 12:20	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			01/18/23 12:20	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			01/18/23 12:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			01/18/23 12:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			01/18/23 12:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			01/18/23 12:20	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			01/18/23 12:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			01/18/23 12:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			01/18/23 12:20	1
1,4-Dioxane	40	U	40	9.3	ug/L			01/18/23 12:20	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			01/18/23 12:20	1
Acetone	10	U	10	3.0	ug/L			01/18/23 12:20	1
Benzene	1.0	U	1.0	0.41	ug/L			01/18/23 12:20	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			01/18/23 12:20	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			01/18/23 12:20	1
Chloroform	1.0	U	1.0	0.34	ug/L			01/18/23 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			01/18/23 12:20	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			01/18/23 12:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			01/18/23 12:20	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			01/18/23 12:20	1
n-Butylbenzene	1.0	U	1.0	0.64	ug/L			01/18/23 12:20	1
N-Propylbenzene	1.0	U	1.0	0.69	ug/L			01/18/23 12:20	1
sec-Butylbenzene	1.0	U	1.0	0.75	ug/L			01/18/23 12:20	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			01/18/23 12:20	1
Toluene	1.0	U	1.0	0.51	ug/L			01/18/23 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			01/18/23 12:20	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			01/18/23 12:20	1
tert-Butylbenzene	1.0	U	1.0	0.81	ug/L			01/18/23 12:20	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			01/18/23 12:20	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			01/18/23 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		01/18/23 12:20	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/18/23 12:20	1
Toluene-d8 (Surr)	94		80 - 120		01/18/23 12:20	1
Dibromofluoromethane (Surr)	103		75 - 123		01/18/23 12:20	1

Lab Sample ID: LCS 480-656325/5

Matrix: Water

Analysis Batch: 656325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	73 - 126
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	23.4		ug/L		94	66 - 127
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	76 - 121
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	26.4		ug/L		106	75 - 120

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: LCS 480-656325/5

Matrix: Water

Analysis Batch: 656325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 120
1,4-Dioxane	500	443		ug/L		89	50 - 150
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
Acetone	125	146		ug/L		117	56 - 142
Benzene	25.0	22.8		ug/L		91	71 - 124
Carbon tetrachloride	25.0	27.2		ug/L		109	72 - 134
Chlorobenzene	25.0	22.9		ug/L		92	80 - 120
Chloroform	25.0	24.7		ug/L		99	73 - 127
cis-1,2-Dichloroethene	25.0	23.1		ug/L		93	74 - 124
Ethylbenzene	25.0	24.4		ug/L		98	77 - 123
Methyl tert-butyl ether	25.0	24.1		ug/L		96	77 - 120
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
n-Butylbenzene	25.0	25.2		ug/L		101	71 - 128
N-Propylbenzene	25.0	24.3		ug/L		97	75 - 127
sec-Butylbenzene	25.0	24.3		ug/L		97	74 - 127
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
Trichloroethene	25.0	23.8		ug/L		95	74 - 123
tert-Butylbenzene	25.0	22.9		ug/L		92	75 - 123
Vinyl chloride	25.0	28.4		ug/L		114	65 - 133
Xylenes, Total	50.0	48.7		ug/L		97	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: MB 480-656328/3-A

Matrix: Solid

Analysis Batch: 656463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	100	28	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,1-Dichloroethane	100	U	100	31	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,1-Dichloroethene	100	U	100	35	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,2,4-Trimethylbenzene	100	U	100	28	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,2-Dichlorobenzene	100	U	100	26	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,2-Dichloroethane	100	U	100	41	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,3,5-Trimethylbenzene	100	U	100	30	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,3-Dichlorobenzene	100	U	100	27	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,4-Dichlorobenzene	100	U	100	14	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
1,4-Dioxane	1900	U	1900	510	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
2-Butanone (MEK)	500	U	500	300	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Acetone	500	U	500	410	ug/Kg		01/18/23 10:35	01/19/23 14:27	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: MB 480-656328/3-A

Matrix: Solid

Analysis Batch: 656463

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	100	U	100	19	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Carbon tetrachloride	100	U	100	26	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Chlorobenzene	100	U	100	13	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Chloroform	100	U	100	69	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
cis-1,2-Dichloroethene	100	U	100	28	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Ethylbenzene	100	U	100	29	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Methyl tert-butyl ether	100	U	100	38	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Methylene Chloride	100	U	100	20	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
n-Butylbenzene	100	U	100	29	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
N-Propylbenzene	100	U	100	26	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
sec-Butylbenzene	100	U	100	37	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Tetrachloroethene	100	U	100	13	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Toluene	100	U	100	27	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
trans-1,2-Dichloroethene	100	U	100	24	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Trichloroethene	100	U	100	28	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
tert-Butylbenzene	100	U	100	28	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Vinyl chloride	100	U	100	34	ug/Kg		01/18/23 10:35	01/19/23 14:27	1
Xylenes, Total	200	U	200	55	ug/Kg		01/18/23 10:35	01/19/23 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		53 - 146	01/18/23 10:35	01/19/23 14:27	1
4-Bromofluorobenzene (Surr)	95		49 - 148	01/18/23 10:35	01/19/23 14:27	1
Toluene-d8 (Surr)	99		50 - 149	01/18/23 10:35	01/19/23 14:27	1
Dibromofluoromethane (Surr)	91		60 - 140	01/18/23 10:35	01/19/23 14:27	1

Lab Sample ID: LCS 480-656328/1-A

Matrix: Solid

Analysis Batch: 656463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	2500	2160		ug/Kg		86	68 - 130
1,1-Dichloroethane	2500	2100		ug/Kg		84	78 - 121
1,1-Dichloroethene	2500	1930		ug/Kg		77	48 - 133
1,2,4-Trimethylbenzene	2500	2190		ug/Kg		88	77 - 127
1,2-Dichlorobenzene	2500	2190		ug/Kg		88	78 - 125
1,2-Dichloroethane	2500	2210		ug/Kg		88	74 - 127
1,3,5-Trimethylbenzene	2500	2200		ug/Kg		88	79 - 120
1,3-Dichlorobenzene	2500	2250		ug/Kg		90	80 - 120
1,4-Dichlorobenzene	2500	2310		ug/Kg		93	80 - 120
1,4-Dioxane	50000	50100		ug/Kg		100	40 - 150
2-Butanone (MEK)	12500	10600		ug/Kg		85	54 - 149
Acetone	12500	9320		ug/Kg		75	47 - 141
Benzene	2500	2210		ug/Kg		88	77 - 125
Carbon tetrachloride	2500	2170		ug/Kg		87	54 - 135
Chlorobenzene	2500	2270		ug/Kg		91	76 - 126
Chloroform	2500	2010		ug/Kg		80	78 - 120
cis-1,2-Dichloroethene	2500	2180		ug/Kg		87	79 - 124
Ethylbenzene	2500	2250		ug/Kg		90	78 - 124

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: LCS 480-656328/1-A

Matrix: Solid

Analysis Batch: 656463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl tert-butyl ether	2500	2040		ug/Kg		82	67 - 137
Methylene Chloride	2500	2200		ug/Kg		88	75 - 118
n-Butylbenzene	2500	2110		ug/Kg		84	80 - 120
N-Propylbenzene	2500	2280		ug/Kg		91	76 - 120
sec-Butylbenzene	2500	2180		ug/Kg		87	79 - 120
Tetrachloroethene	2500	2390		ug/Kg		96	73 - 133
Toluene	2500	2270		ug/Kg		91	75 - 124
trans-1,2-Dichloroethene	2500	2070		ug/Kg		83	74 - 129
Trichloroethene	2500	2220		ug/Kg		89	75 - 131
tert-Butylbenzene	2500	2320		ug/Kg		93	78 - 120
Vinyl chloride	2500	2070		ug/Kg		83	59 - 124
Xylenes, Total	5000	4430		ug/Kg		89	78 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		53 - 146
4-Bromofluorobenzene (Surr)	93		49 - 148
Toluene-d8 (Surr)	96		50 - 149
Dibromofluoromethane (Surr)	93		60 - 140

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

Lab Sample ID: MB 480-656244/1-A

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	98	U	98	54	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
2-Methylphenol	170	U	170	20	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
3-Methylphenol	330	U	330	26	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
4-Methylphenol	330	U	330	20	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Acenaphthene	170	U	170	25	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Acenaphthylene	170	U	170	22	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Anthracene	170	U	170	41	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Chrysene	170	U	170	37	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Dibenzofuran	170	U	170	20	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Fluoranthene	170	U	170	18	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Fluorene	170	U	170	20	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Hexachlorobenzene	170	U	170	23	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Naphthalene	170	U	170	22	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Pentachlorophenol	330	U	330	170	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Phenanthrene	170	U	170	25	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Phenol	170	U	170	26	ug/Kg		01/17/23 15:51	01/18/23 13:48	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: MB 480-656244/1-A

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	170	U	170	20	ug/Kg		01/17/23 15:51	01/18/23 13:48	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		54 - 120				01/17/23 15:51	01/18/23 13:48	1
2-Fluorobiphenyl (Surr)	87		60 - 120				01/17/23 15:51	01/18/23 13:48	1
2-Fluorophenol (Surr)	78		52 - 120				01/17/23 15:51	01/18/23 13:48	1
Nitrobenzene-d5 (Surr)	81		53 - 120				01/17/23 15:51	01/18/23 13:48	1
Phenol-d5 (Surr)	84		54 - 120				01/17/23 15:51	01/18/23 13:48	1
p-Terphenyl-d14 (Surr)	114		79 - 130				01/17/23 15:51	01/18/23 13:48	1

Lab Sample ID: LCS 480-656244/2-A

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	1650	780		ug/Kg		47	23 - 120
2-Methylphenol	1650	1620		ug/Kg		98	54 - 120
3-Methylphenol	1650	1580		ug/Kg		96	55 - 120
4-Methylphenol	1650	1580		ug/Kg		96	55 - 120
Acenaphthene	1650	1600		ug/Kg		97	62 - 120
Acenaphthylene	1650	1700		ug/Kg		103	58 - 121
Anthracene	1650	1730		ug/Kg		105	62 - 120
Benzo[a]anthracene	1650	1820		ug/Kg		110	65 - 120
Benzo[a]pyrene	1650	1840		ug/Kg		112	64 - 120
Benzo[b]fluoranthene	1650	1710		ug/Kg		104	64 - 120
Benzo[g,h,i]perylene	1650	1720		ug/Kg		104	45 - 145
Benzo[k]fluoranthene	1650	1900		ug/Kg		115	65 - 120
Chrysene	1650	1760		ug/Kg		106	64 - 120
Dibenz(a,h)anthracene	1650	1850		ug/Kg		112	54 - 132
Dibenzofuran	1650	1620		ug/Kg		98	63 - 120
Fluoranthene	1650	1650		ug/Kg		100	62 - 120
Fluorene	1650	1640		ug/Kg		100	63 - 120
Hexachlorobenzene	1650	1690		ug/Kg		102	60 - 120
Indeno[1,2,3-cd]pyrene	1650	1920		ug/Kg		116	56 - 134
Naphthalene	1650	1520		ug/Kg		92	55 - 120
Pentachlorophenol	3300	3590		ug/Kg		109	51 - 120
Phenanthrene	1650	1680		ug/Kg		102	60 - 120
Phenol	1650	1510		ug/Kg		92	53 - 120
Pyrene	1650	1950		ug/Kg		118	61 - 133
Surrogate	%Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	112		54 - 120				
2-Fluorobiphenyl (Surr)	104		60 - 120				
2-Fluorophenol (Surr)	90		52 - 120				
Nitrobenzene-d5 (Surr)	94		53 - 120				
Phenol-d5 (Surr)	94		54 - 120				
p-Terphenyl-d14 (Surr)	120		79 - 130				

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: 480-205498-10 MS

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: BH-9 0-3

Prep Type: Total/NA

Prep Batch: 656244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	600	U	2040	900		ug/Kg	✱	44	13 - 120
2-Methylphenol	1000	U	2040	1740		ug/Kg	✱	85	48 - 120
3-Methylphenol	2000	U	2040	1740	J	ug/Kg	✱	85	50 - 120
4-Methylphenol	2000	U	2040	1740	J	ug/Kg	✱	86	50 - 120
Acenaphthene	1000	U	2040	1880		ug/Kg	✱	92	60 - 120
Acenaphthylene	1000	U	2040	2000		ug/Kg	✱	98	58 - 121
Anthracene	1000	U	2040	2060		ug/Kg	✱	101	62 - 120
Benzo[a]anthracene	1000	U	2040	2280		ug/Kg	✱	112	65 - 120
Benzo[a]pyrene	180	J	2040	2300		ug/Kg	✱	105	64 - 120
Benzo[b]fluoranthene	210	J	2040	2460		ug/Kg	✱	110	10 - 150
Benzo[g,h,i]perylene	150	J	2040	1940		ug/Kg	✱	88	45 - 145
Benzo[k]fluoranthene	140	J	2040	2110		ug/Kg	✱	97	23 - 150
Chrysene	1000	U	2040	2320		ug/Kg	✱	114	64 - 120
Dibenz(a,h)anthracene	1000	U	2040	2070		ug/Kg	✱	102	54 - 132
Dibenzofuran	1000	U	2040	1920		ug/Kg	✱	94	62 - 120
Fluoranthene	390	J	2040	2490		ug/Kg	✱	103	62 - 120
Fluorene	1000	U	2040	1920		ug/Kg	✱	94	63 - 120
Hexachlorobenzene	1000	U	2040	1970		ug/Kg	✱	97	60 - 120
Indeno[1,2,3-cd]pyrene	130	J	2040	2110		ug/Kg	✱	97	56 - 134
Naphthalene	1000	U	2040	1780		ug/Kg	✱	87	46 - 120
Pentachlorophenol	2000	U	4070	3860		ug/Kg	✱	95	25 - 136
Phenanthrene	250	J	2040	2330		ug/Kg	✱	102	60 - 122
Phenol	1000	U	2040	1680		ug/Kg	✱	82	50 - 120
Pyrene	350	J	2040	2610		ug/Kg	✱	111	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		54 - 120
2-Fluorobiphenyl (Surr)	93		60 - 120
2-Fluorophenol (Surr)	79		52 - 120
Nitrobenzene-d5 (Surr)	82		53 - 120
Phenol-d5 (Surr)	87		54 - 120
p-Terphenyl-d14 (Surr)	100		79 - 130

Lab Sample ID: 480-205498-10 MSD

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: BH-9 0-3

Prep Type: Total/NA

Prep Batch: 656244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	600	U	2010	964		ug/Kg	✱	48	13 - 120	7	50
2-Methylphenol	1000	U	2010	1750		ug/Kg	✱	87	48 - 120	1	27
3-Methylphenol	2000	U	2010	1900	J	ug/Kg	✱	95	50 - 120	9	24
4-Methylphenol	2000	U	2010	1900	J	ug/Kg	✱	94	50 - 120	9	24
Acenaphthene	1000	U	2010	1920		ug/Kg	✱	96	60 - 120	2	35
Acenaphthylene	1000	U	2010	2010		ug/Kg	✱	100	58 - 121	0	18
Anthracene	1000	U	2010	2040		ug/Kg	✱	102	62 - 120	1	15
Benzo[a]anthracene	1000	U	2010	2150		ug/Kg	✱	107	65 - 120	6	15
Benzo[a]pyrene	180	J	2010	2120		ug/Kg	✱	97	64 - 120	8	15
Benzo[b]fluoranthene	210	J	2010	2250		ug/Kg	✱	101	10 - 150	9	15

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: 480-205498-10 MSD

Matrix: Solid

Analysis Batch: 656282

Client Sample ID: BH-9 0-3

Prep Type: Total/NA

Prep Batch: 656244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	150	J	2010	2010		ug/Kg	☼	93	45 - 145	3	15
Benzo[k]fluoranthene	140	J	2010	2050		ug/Kg	☼	95	23 - 150	3	22
Chrysene	1000	U	2010	2100		ug/Kg	☼	105	64 - 120	10	15
Dibenz(a,h)anthracene	1000	U	2010	1960		ug/Kg	☼	98	54 - 132	5	15
Dibenzofuran	1000	U	2010	1910		ug/Kg	☼	95	62 - 120	1	15
Fluoranthene	390	J	2010	2330		ug/Kg	☼	96	62 - 120	7	15
Fluorene	1000	U	2010	1920		ug/Kg	☼	96	63 - 120	0	15
Hexachlorobenzene	1000	U	2010	1900		ug/Kg	☼	94	60 - 120	4	15
Indeno[1,2,3-cd]pyrene	130	J	2010	2120		ug/Kg	☼	99	56 - 134	0	15
Naphthalene	1000	U	2010	1740		ug/Kg	☼	87	46 - 120	2	29
Pentachlorophenol	2000	U	4020	3780		ug/Kg	☼	94	25 - 136	2	35
Phenanthrene	250	J	2010	2190		ug/Kg	☼	96	60 - 122	6	15
Phenol	1000	U	2010	1720		ug/Kg	☼	86	50 - 120	2	35
Pyrene	350	J	2010	2290		ug/Kg	☼	97	61 - 133	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	102		54 - 120
2-Fluorobiphenyl (Surr)	99		60 - 120
2-Fluorophenol (Surr)	84		52 - 120
Nitrobenzene-d5 (Surr)	87		53 - 120
Phenol-d5 (Surr)	87		54 - 120
p-Terphenyl-d14 (Surr)	102		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-656221/1-A

Matrix: Solid

Analysis Batch: 656462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.40	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Barium	0.50	U	0.50	0.11	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Beryllium	0.20	U	0.20	0.028	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Cadmium	0.20	U	0.20	0.030	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Chromium	0.50	U	0.50	0.20	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Copper	1.0	U	1.0	0.21	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Lead	1.0	U	1.0	0.24	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Manganese	0.167	J	0.20	0.032	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Nickel	5.0	U	5.0	0.23	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Selenium	4.0	U	4.0	0.40	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Silver	0.60	U	0.60	0.20	mg/Kg		01/17/23 12:42	01/19/23 00:01	1
Zinc	2.0	U	2.0	0.64	mg/Kg		01/17/23 12:42	01/19/23 00:01	1

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: LCSSRM 480-656221/2-A
Matrix: Solid
Analysis Batch: 656462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 656221

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	129	102.6		mg/Kg		79.5	60.9 - 113.2
Barium	169	148.3		mg/Kg		87.7	68.6 - 114.2
Beryllium	137	100.9		mg/Kg		73.7	66.3 - 110.2
Cadmium	227	171.9		mg/Kg		75.7	64.8 - 110.1
Chromium	115	89.41		mg/Kg		77.8	62.4 - 115.7
Copper	76.0	62.36		mg/Kg		82.1	69.5 - 115.8
Lead	74.8	86.60		mg/Kg		115.8	67.0 - 128.9
Manganese	400	342.6		mg/Kg		85.7	70.5 - 115.8
Nickel	282	258.9		mg/Kg		91.8	62.1 - 114.9
Selenium	246	180.6		mg/Kg		73.4	60.2 - 114.6
Silver	87.5	68.14		mg/Kg		77.9	63.7 - 115.4
Zinc	401	313.2		mg/Kg		78.1	62.8 - 116.7

Lab Sample ID: 480-205498-8 MS
Matrix: Solid
Analysis Batch: 656462

Client Sample ID: BH-7 0-3
Prep Type: Total/NA
Prep Batch: 656221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	32.4	F1 F2	48.8	61.57	F1	mg/Kg	✱	60	75 - 125
Barium	109		48.8	146.2		mg/Kg	✱	77	75 - 125
Beryllium	1.1		48.8	46.88		mg/Kg	✱	94	75 - 125
Cadmium	0.37		48.8	47.20		mg/Kg	✱	96	75 - 125
Chromium	17.4	F2	48.8	59.48		mg/Kg	✱	86	75 - 125
Copper	41.0	F1 F2	48.8	88.31		mg/Kg	✱	97	75 - 125
Lead	90.1	F1 F2	48.8	181.2	F1	mg/Kg	✱	187	75 - 125
Manganese	261	B F2	48.8	356.7	4	mg/Kg	✱	196	75 - 125
Nickel	23.3		48.8	71.24		mg/Kg	✱	98	75 - 125
Selenium	1.1	J	48.8	43.15		mg/Kg	✱	86	75 - 125
Silver	0.78	U	12.2	10.93		mg/Kg	✱	89	75 - 125
Zinc	91.4	F1 F2	48.8	165.6	F1	mg/Kg	✱	152	75 - 125

Lab Sample ID: 480-205498-8 MSD
Matrix: Solid
Analysis Batch: 656462

Client Sample ID: BH-7 0-3
Prep Type: Total/NA
Prep Batch: 656221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	32.4	F1 F2	52.3	94.74	F2	mg/Kg	✱	119	75 - 125	42	20
Barium	109		52.3	158.0		mg/Kg	✱	94	75 - 125	8	20
Beryllium	1.1		52.3	50.80		mg/Kg	✱	95	75 - 125	8	20
Cadmium	0.37		52.3	52.26		mg/Kg	✱	99	75 - 125	10	20

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QC Sample Results

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Lab Sample ID: 480-205498-8 MSD

Matrix: Solid

Analysis Batch: 656462

Client Sample ID: BH-7 0-3

Prep Type: Total/NA

Prep Batch: 656221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	17.4	F2	52.3	79.27	F2	mg/Kg	✱	118	75 - 125	29	20
Copper	41.0	F1 F2	52.3	124.3	F1 F2	mg/Kg	✱	159	75 - 125	34	20
Lead	90.1	F1 F2	52.3	114.8	F1 F2	mg/Kg	✱	47	75 - 125	45	20
Manganese	261	B F2	52.3	1213	4 F2	mg/Kg	✱	1820	75 - 125	109	20
Nickel	23.3		52.3	86.74		mg/Kg	✱	121	75 - 125	20	20
Selenium	1.1	J	52.3	47.57		mg/Kg	✱	89	75 - 125	10	20
Silver	0.78	U	13.1	12.12		mg/Kg	✱	93	75 - 125	10	20
Zinc	91.4	F1 F2	52.3	115.6	F1 F2	mg/Kg	✱	46	75 - 125	36	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-656294/1-A

Matrix: Solid

Analysis Batch: 656381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 656294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0120	J	0.019	0.0044	mg/Kg		01/18/23 11:51	01/18/23 14:46	1

Lab Sample ID: LCSSRM 480-656294/2-A ^10

Matrix: Solid

Analysis Batch: 656381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 656294

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	20.7	12.66		mg/Kg		61.2	38.3 - 110.1

Lab Sample ID: 480-205498-1 MS

Matrix: Solid

Analysis Batch: 656381

Client Sample ID: BH-1 0-2

Prep Type: Total/NA

Prep Batch: 656294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.52	F1 F2 B	0.430	0.918		mg/Kg	✱	93	80 - 120

Lab Sample ID: 480-205498-1 MSD

Matrix: Solid

Analysis Batch: 656381

Client Sample ID: BH-1 0-2

Prep Type: Total/NA

Prep Batch: 656294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.52	F1 F2 B	0.411	1.17	F1 F2	mg/Kg	✱	159	80 - 120	24	20

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

GC/MS VOA

Analysis Batch: 656325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-18	BH-4 4-5	Total/NA	Water	8260C	
MB 480-656325/7	Method Blank	Total/NA	Water	8260C	
LCS 480-656325/5	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 656328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-5	BH-4 4-5	Total/NA	Solid	5035A_H	
MB 480-656328/3-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-656328/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

Analysis Batch: 656463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-5	BH-4 4-5	Total/NA	Solid	8260C	656328
MB 480-656328/3-A	Method Blank	Total/NA	Solid	8260C	656328
LCS 480-656328/1-A	Lab Control Sample	Total/NA	Solid	8260C	656328

GC/MS Semi VOA

Prep Batch: 656244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	3550C	
480-205498-2	BH-2 0-3	Total/NA	Solid	3550C	
480-205498-3	BH-3 0-3	Total/NA	Solid	3550C	
480-205498-4	BH-4 0-3	Total/NA	Solid	3550C	
480-205498-6	BH-5 0-3	Total/NA	Solid	3550C	
480-205498-7	BH-6 0-3	Total/NA	Solid	3550C	
480-205498-8	BH-7 0-3	Total/NA	Solid	3550C	
480-205498-9	BH-8 0-3	Total/NA	Solid	3550C	
480-205498-10	BH-9 0-3	Total/NA	Solid	3550C	
480-205498-11	BH-10 0-2	Total/NA	Solid	3550C	
480-205498-12	BH-11 0-2	Total/NA	Solid	3550C	
480-205498-13	BH-12 0-2	Total/NA	Solid	3550C	
480-205498-14	BH-13 0-2	Total/NA	Solid	3550C	
480-205498-15	BH-14 1-2	Total/NA	Solid	3550C	
480-205498-16	BH-15 1-2	Total/NA	Solid	3550C	
480-205498-17	BH-16 0-4	Total/NA	Solid	3550C	
480-205498-19	BH-17 0-4	Total/NA	Solid	3550C	
MB 480-656244/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-656244/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-205498-10 MS	BH-9 0-3	Total/NA	Solid	3550C	
480-205498-10 MSD	BH-9 0-3	Total/NA	Solid	3550C	

Analysis Batch: 656282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	8270D	656244
480-205498-2	BH-2 0-3	Total/NA	Solid	8270D	656244
480-205498-3	BH-3 0-3	Total/NA	Solid	8270D	656244
480-205498-4	BH-4 0-3	Total/NA	Solid	8270D	656244
480-205498-6	BH-5 0-3	Total/NA	Solid	8270D	656244
480-205498-7	BH-6 0-3	Total/NA	Solid	8270D	656244
480-205498-8	BH-7 0-3	Total/NA	Solid	8270D	656244

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

GC/MS Semi VOA (Continued)

Analysis Batch: 656282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-9	BH-8 0-3	Total/NA	Solid	8270D	656244
480-205498-10	BH-9 0-3	Total/NA	Solid	8270D	656244
480-205498-11	BH-10 0-2	Total/NA	Solid	8270D	656244
480-205498-12	BH-11 0-2	Total/NA	Solid	8270D	656244
480-205498-13	BH-12 0-2	Total/NA	Solid	8270D	656244
480-205498-14	BH-13 0-2	Total/NA	Solid	8270D	656244
480-205498-15	BH-14 1-2	Total/NA	Solid	8270D	656244
480-205498-16	BH-15 1-2	Total/NA	Solid	8270D	656244
480-205498-17	BH-16 0--4	Total/NA	Solid	8270D	656244
480-205498-19	BH-17 0-4	Total/NA	Solid	8270D	656244
MB 480-656244/1-A	Method Blank	Total/NA	Solid	8270D	656244
LCS 480-656244/2-A	Lab Control Sample	Total/NA	Solid	8270D	656244
480-205498-10 MS	BH-9 0-3	Total/NA	Solid	8270D	656244
480-205498-10 MSD	BH-9 0-3	Total/NA	Solid	8270D	656244

Metals

Prep Batch: 656221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	3050B	
480-205498-2	BH-2 0-3	Total/NA	Solid	3050B	
480-205498-3	BH-3 0-3	Total/NA	Solid	3050B	
480-205498-4	BH-4 0-3	Total/NA	Solid	3050B	
480-205498-6	BH-5 0-3	Total/NA	Solid	3050B	
480-205498-7	BH-6 0-3	Total/NA	Solid	3050B	
480-205498-8	BH-7 0-3	Total/NA	Solid	3050B	
480-205498-9	BH-8 0-3	Total/NA	Solid	3050B	
480-205498-10	BH-9 0-3	Total/NA	Solid	3050B	
480-205498-11	BH-10 0-2	Total/NA	Solid	3050B	
480-205498-12	BH-11 0-2	Total/NA	Solid	3050B	
480-205498-13	BH-12 0-2	Total/NA	Solid	3050B	
480-205498-14	BH-13 0-2	Total/NA	Solid	3050B	
480-205498-15	BH-14 1-2	Total/NA	Solid	3050B	
480-205498-16	BH-15 1-2	Total/NA	Solid	3050B	
480-205498-17	BH-16 0--4	Total/NA	Solid	3050B	
480-205498-19	BH-17 0-4	Total/NA	Solid	3050B	
MB 480-656221/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-656221/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-205498-8 MS	BH-7 0-3	Total/NA	Solid	3050B	
480-205498-8 MSD	BH-7 0-3	Total/NA	Solid	3050B	

Prep Batch: 656294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	7471B	
480-205498-2	BH-2 0-3	Total/NA	Solid	7471B	
480-205498-3	BH-3 0-3	Total/NA	Solid	7471B	
480-205498-4	BH-4 0-3	Total/NA	Solid	7471B	
480-205498-6	BH-5 0-3	Total/NA	Solid	7471B	
480-205498-7	BH-6 0-3	Total/NA	Solid	7471B	
480-205498-8	BH-7 0-3	Total/NA	Solid	7471B	
480-205498-9	BH-8 0-3	Total/NA	Solid	7471B	

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QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Metals (Continued)

Prep Batch: 656294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-10	BH-9 0-3	Total/NA	Solid	7471B	
480-205498-11	BH-10 0-2	Total/NA	Solid	7471B	
480-205498-12	BH-11 0-2	Total/NA	Solid	7471B	
480-205498-13	BH-12 0-2	Total/NA	Solid	7471B	
480-205498-14	BH-13 0-2	Total/NA	Solid	7471B	
480-205498-15	BH-14 1-2	Total/NA	Solid	7471B	
480-205498-16	BH-15 1-2	Total/NA	Solid	7471B	
480-205498-17	BH-16 0--4	Total/NA	Solid	7471B	
480-205498-19	BH-17 0-4	Total/NA	Solid	7471B	
MB 480-656294/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-656294/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-205498-1 MS	BH-1 0-2	Total/NA	Solid	7471B	
480-205498-1 MSD	BH-1 0-2	Total/NA	Solid	7471B	

Analysis Batch: 656381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	7471B	656294
480-205498-2	BH-2 0-3	Total/NA	Solid	7471B	656294
480-205498-3	BH-3 0-3	Total/NA	Solid	7471B	656294
480-205498-4	BH-4 0-3	Total/NA	Solid	7471B	656294
480-205498-6	BH-5 0-3	Total/NA	Solid	7471B	656294
480-205498-7	BH-6 0-3	Total/NA	Solid	7471B	656294
480-205498-8	BH-7 0-3	Total/NA	Solid	7471B	656294
480-205498-9	BH-8 0-3	Total/NA	Solid	7471B	656294
480-205498-10	BH-9 0-3	Total/NA	Solid	7471B	656294
480-205498-11	BH-10 0-2	Total/NA	Solid	7471B	656294
480-205498-12	BH-11 0-2	Total/NA	Solid	7471B	656294
480-205498-13	BH-12 0-2	Total/NA	Solid	7471B	656294
480-205498-14	BH-13 0-2	Total/NA	Solid	7471B	656294
480-205498-15	BH-14 1-2	Total/NA	Solid	7471B	656294
480-205498-16	BH-15 1-2	Total/NA	Solid	7471B	656294
480-205498-17	BH-16 0--4	Total/NA	Solid	7471B	656294
480-205498-19	BH-17 0-4	Total/NA	Solid	7471B	656294
MB 480-656294/1-A	Method Blank	Total/NA	Solid	7471B	656294
LCSSRM 480-656294/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	656294
480-205498-1 MS	BH-1 0-2	Total/NA	Solid	7471B	656294
480-205498-1 MSD	BH-1 0-2	Total/NA	Solid	7471B	656294

Analysis Batch: 656462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	6010C	656221
480-205498-2	BH-2 0-3	Total/NA	Solid	6010C	656221
480-205498-3	BH-3 0-3	Total/NA	Solid	6010C	656221
480-205498-4	BH-4 0-3	Total/NA	Solid	6010C	656221
480-205498-6	BH-5 0-3	Total/NA	Solid	6010C	656221
480-205498-7	BH-6 0-3	Total/NA	Solid	6010C	656221
480-205498-8	BH-7 0-3	Total/NA	Solid	6010C	656221
480-205498-9	BH-8 0-3	Total/NA	Solid	6010C	656221
480-205498-10	BH-9 0-3	Total/NA	Solid	6010C	656221
480-205498-11	BH-10 0-2	Total/NA	Solid	6010C	656221
480-205498-12	BH-11 0-2	Total/NA	Solid	6010C	656221

Eurofins Buffalo

QC Association Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Metals (Continued)

Analysis Batch: 656462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-13	BH-12 0-2	Total/NA	Solid	6010C	656221
480-205498-14	BH-13 0-2	Total/NA	Solid	6010C	656221
480-205498-15	BH-14 1-2	Total/NA	Solid	6010C	656221
480-205498-16	BH-15 1-2	Total/NA	Solid	6010C	656221
480-205498-17	BH-16 0-4	Total/NA	Solid	6010C	656221
480-205498-19	BH-17 0-4	Total/NA	Solid	6010C	656221
MB 480-656221/1-A	Method Blank	Total/NA	Solid	6010C	656221
LCSSRM 480-656221/2-A	Lab Control Sample	Total/NA	Solid	6010C	656221
480-205498-8 MS	BH-7 0-3	Total/NA	Solid	6010C	656221
480-205498-8 MSD	BH-7 0-3	Total/NA	Solid	6010C	656221

Analysis Batch: 656575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-4	BH-4 0-3	Total/NA	Solid	6010C	656221
480-205498-6	BH-5 0-3	Total/NA	Solid	6010C	656221
480-205498-17	BH-16 0-4	Total/NA	Solid	6010C	656221
480-205498-19	BH-17 0-4	Total/NA	Solid	6010C	656221

General Chemistry

Analysis Batch: 656135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205498-1	BH-1 0-2	Total/NA	Solid	Moisture	
480-205498-2	BH-2 0-3	Total/NA	Solid	Moisture	
480-205498-3	BH-3 0-3	Total/NA	Solid	Moisture	
480-205498-4	BH-4 0-3	Total/NA	Solid	Moisture	
480-205498-5	BH-4 4-5	Total/NA	Solid	Moisture	
480-205498-6	BH-5 0-3	Total/NA	Solid	Moisture	
480-205498-7	BH-6 0-3	Total/NA	Solid	Moisture	
480-205498-8	BH-7 0-3	Total/NA	Solid	Moisture	
480-205498-9	BH-8 0-3	Total/NA	Solid	Moisture	
480-205498-10	BH-9 0-3	Total/NA	Solid	Moisture	
480-205498-11	BH-10 0-2	Total/NA	Solid	Moisture	
480-205498-12	BH-11 0-2	Total/NA	Solid	Moisture	
480-205498-13	BH-12 0-2	Total/NA	Solid	Moisture	
480-205498-14	BH-13 0-2	Total/NA	Solid	Moisture	
480-205498-15	BH-14 1-2	Total/NA	Solid	Moisture	
480-205498-16	BH-15 1-2	Total/NA	Solid	Moisture	
480-205498-17	BH-16 0-4	Total/NA	Solid	Moisture	
480-205498-19	BH-17 0-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-1 0-2

Date Collected: 01/13/23 09:10

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-1 0-2

Date Collected: 01/13/23 09:10

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-1

Matrix: Solid

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		10	656282	JMM	EET BUF	01/18/23 15:52
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:20
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 14:49

Client Sample ID: BH-2 0-3

Date Collected: 01/13/23 09:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-2 0-3

Date Collected: 01/13/23 09:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-2

Matrix: Solid

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		10	656282	JMM	EET BUF	01/18/23 16:18
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:24
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 14:54

Client Sample ID: BH-3 0-3

Date Collected: 01/13/23 09:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-3 0-3

Date Collected: 01/13/23 09:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-3

Matrix: Solid

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		5	656282	JMM	EET BUF	01/18/23 16:43
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:28
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 14:55

Client Sample ID: BH-4 0-3

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-4 0-3

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-4

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 17:09
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:32
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		2	656575	LMH	EET BUF	01/19/23 18:35
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 14:57

Client Sample ID: BH-4 4-5

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-4 4-5

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-5

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	5035A_H			656328	AXK	EET BUF	01/18/23 10:35
Total/NA	Analysis	8260C		4	656463	LCH	EET BUF	01/19/23 16:26

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-5 0-3

Date Collected: 01/13/23 10:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-5 0-3

Date Collected: 01/13/23 10:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-6

Matrix: Solid

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 17:34
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:36
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		2	656575	LMH	EET BUF	01/19/23 18:38
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 14:58

Client Sample ID: BH-6 0-3

Date Collected: 01/13/23 10:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-6 0-3

Date Collected: 01/13/23 10:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-7

Matrix: Solid

Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 17:59
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:40
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:02

Client Sample ID: BH-7 0-3

Date Collected: 01/13/23 10:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-7 0-3

Date Collected: 01/13/23 10:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-8

Matrix: Solid

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 18:24
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 00:44
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:03

Client Sample ID: BH-8 0-3

Date Collected: 01/13/23 11:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-8 0-3

Date Collected: 01/13/23 11:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-9

Matrix: Solid

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		10	656282	JMM	EET BUF	01/18/23 18:48
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:15
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:05

Client Sample ID: BH-9 0-3

Date Collected: 01/13/23 11:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-9 0-3

Date Collected: 01/13/23 11:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-10

Matrix: Solid

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		5	656282	JMM	EET BUF	01/18/23 15:27
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:18
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:06

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Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-10 0-2

Date Collected: 01/13/23 11:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-10 0-2

Date Collected: 01/13/23 11:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-11

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 19:13
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:22
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:07

Client Sample ID: BH-11 0-2

Date Collected: 01/13/23 12:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-11 0-2

Date Collected: 01/13/23 12:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-12

Matrix: Solid

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		10	656282	JMM	EET BUF	01/18/23 19:38
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:26
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:08

Client Sample ID: BH-12 0-2

Date Collected: 01/13/23 12:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-12 0-2

Date Collected: 01/13/23 12:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-13

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 20:02
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:30
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:10

Client Sample ID: BH-13 0-2

Date Collected: 01/13/23 13:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-13 0-2

Date Collected: 01/13/23 13:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-14

Matrix: Solid

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 20:27
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:34
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		10	656381	NVK	EET BUF	01/18/23 16:14

Client Sample ID: BH-14 1-2

Date Collected: 01/13/23 13:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-14 1-2

Date Collected: 01/13/23 13:15

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-15

Matrix: Solid

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		5	656282	JMM	EET BUF	01/18/23 20:52
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:49
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:14

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-15 1-2

Date Collected: 01/13/23 13:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-15 1-2

Date Collected: 01/13/23 13:30

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-16

Matrix: Solid

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 21:17
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:53
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:15

Client Sample ID: BH-16 0--4

Date Collected: 01/13/23 13:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-16 0--4

Date Collected: 01/13/23 13:45

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-17

Matrix: Solid

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		10	656282	JMM	EET BUF	01/18/23 21:41
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 01:57
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		5	656575	LMH	EET BUF	01/19/23 18:43
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:19

Client Sample ID: BH-4 4-5

Date Collected: 01/13/23 10:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	656325	AXK	EET BUF	01/18/23 18:55

Eurofins Buffalo

Lab Chronicle

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

Client Sample ID: BH-17 0-4

Date Collected: 01/13/23 14:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	656135	DSC	EET BUF	01/16/23 18:49

Client Sample ID: BH-17 0-4

Date Collected: 01/13/23 14:00

Date Received: 01/14/23 09:15

Lab Sample ID: 480-205498-19

Matrix: Solid

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			656244	SJM	EET BUF	01/17/23 15:51
Total/NA	Analysis	8270D		1	656282	JMM	EET BUF	01/18/23 22:06
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		1	656462	LMH	EET BUF	01/19/23 02:01
Total/NA	Prep	3050B			656221	VAK	EET BUF	01/17/23 12:42
Total/NA	Analysis	6010C		2	656575	LMH	EET BUF	01/19/23 18:46
Total/NA	Prep	7471B			656294	NVK	EET BUF	01/18/23 11:51
Total/NA	Analysis	7471B		1	656381	NVK	EET BUF	01/18/23 15:21

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: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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	03-31-23

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

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

Method Summary

Client: Brydges Engineering in Environment & Energy DPC
Project/Site: Regan Development - Dunkirk, NY

Job ID: 480-205498-1

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

Job ID: 480-205498-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-205498-1	BH-1 0-2	Solid	01/13/23 09:10	01/14/23 09:15
480-205498-2	BH-2 0-3	Solid	01/13/23 09:30	01/14/23 09:15
480-205498-3	BH-3 0-3	Solid	01/13/23 09:45	01/14/23 09:15
480-205498-4	BH-4 0-3	Solid	01/13/23 10:00	01/14/23 09:15
480-205498-5	BH-4 4-5	Solid	01/13/23 10:00	01/14/23 09:15
480-205498-6	BH-5 0-3	Solid	01/13/23 10:15	01/14/23 09:15
480-205498-7	BH-6 0-3	Solid	01/13/23 10:30	01/14/23 09:15
480-205498-8	BH-7 0-3	Solid	01/13/23 10:45	01/14/23 09:15
480-205498-9	BH-8 0-3	Solid	01/13/23 11:00	01/14/23 09:15
480-205498-10	BH-9 0-3	Solid	01/13/23 11:15	01/14/23 09:15
480-205498-11	BH-10 0-2	Solid	01/13/23 11:30	01/14/23 09:15
480-205498-12	BH-11 0-2	Solid	01/13/23 12:30	01/14/23 09:15
480-205498-13	BH-12 0-2	Solid	01/13/23 12:45	01/14/23 09:15
480-205498-14	BH-13 0-2	Solid	01/13/23 13:00	01/14/23 09:15
480-205498-15	BH-14 1-2	Solid	01/13/23 13:15	01/14/23 09:15
480-205498-16	BH-15 1-2	Solid	01/13/23 13:30	01/14/23 09:15
480-205498-17	BH-16 0-4	Solid	01/13/23 13:45	01/14/23 09:15
480-205498-18	BH-4 4-5	Water	01/13/23 10:00	01/14/23 09:15
480-205498-19	BH-17 0-4	Solid	01/13/23 14:00	01/14/23 09:15

Chain of Custody Record



Client Information				Lab PM: Beninati, John				COC No: 480-180870-38241.1							
Client Contact: Mr. Peter Gorton				E-Mail: John.Beninati@eurofinsus.com				Page: Page 1 of 2							
Company: Bridges Engineering in Environment & Energy DPC				PWSID:				Job #:							
Address: 960 Busti Ave Suite B-150				Due Date Requested:				Analysis Requested							
City: Buffalo				TAT Requested (days): 10 day				Preservation Codes:							
State, Zip: NY, 14213				Compliance Project: Δ Yes Δ No				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Phone: 716-362-6533(Tel)				PO #: Purchase Order not required				Other:							
Email: ppgorton@be3corp.com				WO #: Regan development											
Project Name: BE3 - Job #8206				Project #: 48024347											
Site: Dunkirk				SSOW#:											
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Particulate MS/SD (Yes or No)	8270D - Part 375 SVOCs	8260C - Part 375 VOCs (LL BULK)	8260C - Part 375 VOCs	Total Number of containers	Special Instructions/Note:	
BH1	0-2'	1/13	9:10	G	Solid			X							
BH2	0-3'	1/13	9:30	G	Solid			X							
BH3	0-3'	1/13	9:45	G	Solid			X							
BH4	0-3'	1/13	10:00	G	Solid			X							
BH5	0-3'	1/13	10:00	G	Solid			X							
BH6	0-3'	1/13	10:15	G	Solid			X							
BH7	0-3'	1/13	10:30	G	Solid			X							
BH8	0-3'	1/13	10:45	G	Solid			X							
BH9	0-3'	1/13	11:00	G	Solid			X							
BH10	0-3'	1/13	11:15	G	Solid			X							
BH11	0-3'	1/13	11:30	G	Solid			X							
Possible Hazard Identification				Polson B				Unknown				Radiological			
Non-Hazard				Flammable				Skin Irritant				Other (specify)			
Deliverable Requested: I, II, III, IV				Other (specify)											
Empty Kit Relinquished by: Jacob Cox				Date: 1/14/23				Time: 9:15				Company: Company			
Relinquished by: Jacob Cox				Date: 1/14/23				Time: 9:15				Company: Company			
Relinquished by:				Date:				Time:				Company:			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:											

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

Chain of Custody Record

Client Information Client Contact: Mr. Peter Gorton Company: Brydges Engineering in Environment & Energy DPC		Lab PM: Beninati, John Carrier Tracking No(s): 480-180870-38241.2 State of Origin: Page 2 of 2 Job #:	
Address: 960 Busti Ave Suite B-150 City: Buffalo State, Zip: NY, 14213 Phone: 716-362-6533(Tel) Email: pgorton@be3corp.com Project Name: BE3 - Job #8206 Site: Dunkirk		Analysis Requested Due Date Requested: 10 day TAT Requested (days): Compliance Project: ☐ Yes ☒ No Purchase Order not required WO #: Regan Development Project #: 48024347 SSOW#:	
Sample Identification Sample ID: BH11 0-2' BH12 0-2' BH13 0-2' BH14 1-2' BH15 1-2' BH16 0-4' BH4 4-5' BH17 0-4'		Field Filtered Sample (Yes or No) 6010C, 7471B 8270D - Part 375 SVOCs 8260C - Part 375 VOCs (LL BULK) 8260C - Part 375 VOCs	
Sample Type (C=Comp, G=grab) Sample Date: 1/13 Sample Time: 12:30 Matrix: Solid Preservation Code:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Special Instructions/Note:		Special Instructions/Note:	
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/QC Requirements: NONE	
Relinquished by: Jacob Cox Relinquished by: Jacob Cox Relinquished by:		Relinquished by: Jacob Cox Relinquished by: Jacob Cox Relinquished by:	
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Brydges Engineering in Environment & Energy DPC

Job Number: 480-205498-1

Login Number: 205498

List Number: 1

Creator: Sabuda, Brendan D

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	6.3 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX D

Previous Investigations

Phase I Environmental Site Assessment (ESA)

*208-214 Washington Avenue
Dunkirk, New York*

March 2010

0208-001-100

Prepared For:

City of Dunkirk



Prepared By:



PHASE I ENVIRONMENTAL SITE ASSESSMENT
FOR
208 WASHINGTON AVENUE
DUNKIRK, NEW YORK

April 2010

0208-001-100

Prepared for:
City of Dunkirk

1.0 EXECUTIVE SUMMARY

1.1 REPORT FINDINGS

The following details the findings of TurnKey Environmental Restoration, LLC (TurnKey) relative to identifying recognized environmental conditions (RECs) for 208-214 Washington Avenue (Site), Dunkirk, NY.

1.1.1 Site Description

The subject property, addressed at 208-214 Washington Lake Shore Drive, and also identified as Tax ID # 79.57-1-81, is located in a commercial area of the City of Dunkirk, New York (see Figure 1).

The subject property an approximate 0.3-acre parcel improved with a three story row building, generally constructed of brick and wood. The structure is currently vacant and in very poor condition. The first floor of the building was rotted exposing the earthen floor beneath the building. The western portion of the building fronts Washington Avenue and abuts the sidewalk. The building occupies the majority of the property; however the eastern portion of the Site is unimproved. Properties surrounding the Site are comprised of commercial and residential use properties. Site photographs are included in Appendix A.

1.1.2 Site Reconnaissance

A visual Site review of the subject property was completed to document Site conditions and to identify recognized environmental conditions. The Site reconnaissance included a walkover of all accessible areas. TurnKey's Project Manager, Mr. Michael A. Lesakowski and Project Engineer, Mr. James C Taravella, performed the Site reconnaissance on February 19, 2010.

1.1.3 Site History

The historical use of the subject property has been researched through review of historic maps, historic aerial photographs, municipal records and/or other reasonably obtainable documents, as detailed below.

Date Range	Apparent Use	Source
1888 – 1930s	Mulholland Company; historic uses include manufacture of wagon springs, carriages, automobile bodies, and dining cars. During that time, uses also included black smith shops, wood shops, printing, painting and machine shops.	Historical Sanborn Maps
1930s – 2010	Warehouse; unknown specific use. Vacant in 1931 and 2010.	Site Observations, Municipal Records, Historical Sanborn Maps

1.1.4 Regulatory Information

A review of regulatory information identified the following conditions:

- NY SPILL ID# 080554 reports that a hydraulic line on a commercial vehicle ruptured, spilling one pint of fluid. The spill was cleaned up and NYSDEC closed the spill on August 14, 2008.

1.1.5 Interviews

Interviews were conducted with persons knowledgeable about the subject property and/or municipal representatives familiar with the subject property. No Recognized Environmental Conditions (RECs) were identified based on information gathered from interviews.

1.2 DATA GAPS

The following data gaps¹ were encountered in completion of this inquiry.

Type of Data Gap	Details of Data Gap	Sources Consulted	Significance
Site Use 1930s to 2000s	Specific Site use was not identified during this time period.	Municipal records, Sanborn Maps, Interviews	This data gap is considered low significance. Based on historical records obtained, a Phase II Environmental Site Assessment is recommended to investigate potential environmental concerns on-Site regardless of this data gap.
Abstract of Title	The abstract of title was not available for review at the time of report preparation.	Prospective purchaser (i.e., user of this report).	This data gap did not limit TurnKey's ability to provide an opinion on RECs related to the Site.

1.3 LIMITATIONS

To the best of our knowledge, the information contained in this report is true and accurate. TurnKey personnel have exercised due diligence in the compilation of the information contained herein appropriate to environmental professionals engaged in investigations of this sort. TurnKey makes no guarantees regarding the accuracy of information gained from other sources. Refer to Appendix K for additional limitations.

¹ A data gap is defined by 40 CFR 312.10 as "a lack of or inability to obtain information required by the standards and practices" of preparation of this document "despite good faith efforts by the environmental professional" or others to gather such information.

1.4 CONCLUSIONS

TurnKey has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 for 208-214 Washington Avenue, Dunkirk, New York. The following RECs, historic RECs and de-minimis conditions were identified:

Recognized Environmental Conditions (RECs)

Per ASTM E1527, recognized environmental conditions are conditions that indicate the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. TurnKey's investigation identified the following RECs:

- The Site was formerly occupied by the Mulholland Company from the 1880s through at least the 1930s; historic uses include manufacture of various items such as wagon springs, carriages, automobile bodies, and dining cars. During that time, uses also included black smith shops, wood shops, printing, painting and machine shops. Environmental concerns associated with these types of past uses include use and/or storage of various petroleum products, chemicals and heavy metals.

Historic RECs

Per ASTM E1527, historic recognized environmental conditions are conditions, which in the past would have been considered a REC, but which may have been previously addressed and may or may not be considered a REC currently. TurnKey's investigation identified the following historic RECs.

- NY SPILL ID# 080554, addressed at 208 Washington Avenue, reports that a hydraulic line on a commercial vehicle ruptured, spilling one pint of fluid. The spill was cleaned up and NYSDEC closed the spill on August 14, 2008.

De-minimis Conditions

In accordance with ASTM E-1527, de-minimis conditions are conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. TurnKey's investigation did not identify any de-minimis conditions.

1.5 NON-SCOPE CONSIDERATIONS

As described under ASTM E 1527-02.13 non-scope considerations are described as ancillary observations during performance of the on-Site investigation. Non-scope considerations are not considered RECs under ASTM E 1527-05, but may represent health or environmental issues impacting the Site and/or property value. Based on the age of the building, some lead-based paint or asbestos containing materials may be present in certain building components.

1.6 OPINION

Based on the information contained in this report, it is the opinion of the environmental professional preparing this report that a Phase II Site Investigation is recommended for the subject property based on the historic industrial use of the Site. A recommended Phase II Investigation scope of work will be provided under separate cover.

1.7 CERTIFICATION, RELIANCE, AND DECLARATION

TurnKey authorizes the City of Dunkirk to use this report in reference to the subject property. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

Reviewed by:

James C Taravella
Project Engineer

Michael A. Lesakowski
Project Manager

Phase II Environmental Investigation Report

*208-214 Washington Avenue
Dunkirk, New York*

April 2012

0254-012-100

Prepared For:

Chadwick Bay, LLC



Prepared By:



PHASE II ENVIRONMENTAL INVESTIGATION REPORT

**208-214 WASHINGTON STREET
DUNKIRK, NEW YORK**

April 2012

0254-012-100

Prepared for:

Chadwick Bay, LLC

PHASE II ENVIRONMENTAL INVESTIGATION REPORT

208-214 Washington Street

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PHASE II ENVIRONMENTAL INVESTIGATION REPORT

208-214 Washington Street

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APPENDICES

Appendix A	Field Geoprobe Borehole Logs
Appendix B	Laboratory Analytical Data Summary Package

1.0 INTRODUCTION

1.1 Background and Site Description

TurnKey Environmental Restoration, LLC (TurnKey) performed a Phase II Environmental Investigation at 208-214 Washington Street, Dunkirk, New York (Site; see Figure 1), on behalf of Chadwick Bay, LLC, who has been named as the designated developer of the Site and is considering purchasing the Site.

The subject Site is an approximate 0.3-acre parcel improved with a three story row building, generally constructed of brick and wood. The structure is currently vacant and in very poor condition. The first floor of the building was rotted exposing the earthen floor beneath the building. The western portion of the building fronts Washington Avenue and abuts the sidewalk. The building occupies the majority of the property; however the eastern portion of the Site is unimproved. Properties surrounding the Site are comprised of commercial and residential use properties.

This Phase II site investigation was conducted based on the findings of the Phase I Environmental Site Assessment (ESA) report prepared by TurnKey (April 2010). TurnKey's Phase I ESA identified the following recognized environmental concerns (RECs):

- The Site was formerly occupied by the Mulholland Company from the 1880s through at least the 1930s; historic uses include manufacture of various items such as wagon springs, carriages, automobile bodies, and dining cars. During that time, uses also included black smith shops, wood shops, printing, painting and machine shops. Environmental concerns associated with these types of past uses include use and/or storage of various petroleum products, chemicals and heavy metals.

This investigation included completion of a limited surface/subsurface soil and groundwater investigation of the Site to assess potential environmental impact related to historic Site use as identified in the Phase I ESA.

2.0 METHODS OF INVESTIGATION

On March 16, 2012, surface samples SS-2 through SS-5 were collected and soil borings SB-1 through SB-9 and temporary monitoring wells TMW-1 through TMW-3 were completed on the Site (see Figure 2).

2.1 Surface Soil Sampling

Four exterior surface soil samples designated SS-1 through SS-4, were collected from the upper 0-2-inches in non-paved areas of the Site. Sample location SS-5 was collected from an area of exposed earthen floor within the building. Surface soil samples SS-2 through SS-5 were analyzed for polycyclic aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals and polychlorinated biphenyls (PCBs). Sample SS-1 was collected but was not analyzed based on the consistency of the material, which was gravel and stone. Surface soil analytical results are presented in Table 1. The surface soil samples were submitted under standard chain-of-custody to TestAmerica Laboratories, Inc., an Environmental Laboratory Approval Program (ELAP)-approved laboratory, for analysis in accordance with United States Environmental Protection Agency (USEPA) SW-846 Method 8270 for PAHs, Methods 6010B and 7471A for RCRA metals and Method 8082 for PCBs.

2.2 Subsurface Soil Borings and Soil Sampling

Subsurface soil samples were collected with a track-mounted percussion and hydraulically driven drive system equipped with an approximate 1.5-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were generally collected within each borehole continuously from the ground surface until equipment refusal was encountered (generally 12-14 feet below the ground surface (fbgs) across the Site). Any down-hole equipment was decontaminated between boreholes with an Alconox/water wash followed by a tap water rinse. The cutting shoes were decontaminated in a similar manner between the collections of each sample. Surface soil samples were collected with a sampling spoon.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method). TurnKey personnel scanned each 4-foot core in approximate two-foot intervals for total volatile organic vapors with a Mini Rae

2000 Photoionization Detector (PID) equipped with a 10.6 eV lamp and noted visual and/or olfactory observations. The PID is capable of detecting the presence of contaminants that emit volatile organic compounds (VOCs) such as petroleum products and solvents with ionization potentials less than 10.6 eV. PID measurements were then recorded on the Field Geoprobe Borehole Logs (see Appendix A) and in the Project Field Book.

To assess potential impacts across the Site, subsurface soil samples were submitted to the laboratory for volatile organic compounds (VOCs), PAHs and metals analyses. Soil analytical results are presented in Table 2. The soil samples were submitted under standard chain-of-custody to TestAmerica Laboratories, Inc., an ELAP-approved laboratory, for analysis in accordance with USEPA SW-846 Method 8260 for Target Compound List (TCL) plus NYSDEC STARS List VOCs, Method 8270 for PAHs and Methods 6010B and 7471A for RCRA metals.

2.3 Temporary Monitoring Well Installation and Groundwater Sampling

Following borehole advancement as described above, three temporary monitoring wells (TMWs), designated TMW-1, TMW-2 and TMW-3 were installed within SB-1, SB-6 and SB-9, respectively, to collect a representative groundwater sample. Temporary well locations are shown on Figure 2. The well construction diagrams are provided in Appendix A.

A groundwater grab sample was collected from each TMW, placed in pre-cleaned laboratory provided sample vials, cooled to 4 °C in the field, and transported under chain-of-custody to TestAmerica Laboratories, Inc. for analysis in accordance with USEPA SW-846 Method 8260 for TCL plus STARS List VOCs.

3.0 INVESTIGATION FINDINGS

Five surface samples (SS-1 through SS-5), nine soil borings (SB-1 through SB-9) and three TMWs were completed on March 16, 2012 with four surface samples, five subsurface samples and three groundwater samples collected for laboratory analysis. Analytical results are presented in Table 1 (surface soil), Table 2 (subsurface soil) and Table 3 (groundwater). For comparison purposes, Tables 1 and 2 present Unrestricted, Restricted-Residential and Restricted-Commercial soil cleanup objectives (SCOs) for each of the detected parameters as published in NYSDEC Part 375 and Table 3 groundwater results are compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) groundwater quality standards (GWQS). The analytical data package is included in Appendix B.

3.1 Qualitative Soil Screening

Soil samples were screened via headspace for VOCs using a MiniRae 2000 PID. PID measurements ranged from <1 ppm (most locations) to 20 ppm (SB-9). A slight odor was noted in soil boring SB-5, located in the eastern portion of the Site. PID measurements and field observation are noted in the Field Geoprobe Borehole Logs in Appendix A.

3.2 Site Geology/Hydrogeology

The geology at the Site is generally described as fill materials, including black or brown sand and gravel, coarse gravel, wood and brick, to depths up to 6 fbgs overlying lean clay. Weathered bedrock (apparent shale) was encountered between 12 and 14 fbgs in each soil boring.

Groundwater was encountered at approximately 6-8 fbgs during boring installations. Based on local topography, groundwater likely flows in a northerly direction towards Lake Erie, which is located less than one mile north of the Site.

3.3 Soil Analytical Results

3.3.1 Surface Soil

As indicated on Table 1, the surface soil analytical data results indicate detections of several PAHs, arsenic, lead, mercury and PCBs above NYSDEC Part 375 Unrestricted SCOs. PAHs, arsenic and lead were also detected above NYSDEC Part 375 Restricted-Residential and Restricted-Commercial SCOs.

3.3.2 Subsurface Soil

As indicated on Table 2, the subsurface soil analytical data results indicate detections of several PAHs, arsenic, barium, lead and mercury above NYSDEC Part 375 Unrestricted SCOs. Lead was detected above its NYSDEC Part 375 Restricted-Residential SCO and several PAHs were detected above their respective NYSDEC Part 375 Restricted-Commercial SCOs. There were no exceedances of detected VOCs above any of the SCOs.

3.4 Groundwater Analytical Results

Discrete groundwater grab sample were collected from temporary monitoring wells (TMW-1, -2 and -3). The groundwater samples were analyzed for TCL plus NYSDEC STARS List VOCs. As presented on Table 3, VOC analytes were not detected above their respective NYSDEC groundwater quality standards (GWQS).

4.0 CONCLUSIONS AND RECOMMENDATIONS

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

- Elevated concentrations of PAHs, PCBs, arsenic, lead and mercury in surface soil were detected above NYSDEC Part 375 Unrestricted SCOs. PAHs, arsenic and lead were also detected above NYSDEC Part 375 Restricted-Residential and Restricted-Commercial SCOs.
- Elevated concentrations of several PAHs, arsenic, barium, lead and mercury in subsurface soil were detected above NYSDEC Part 375 Unrestricted SCOs. Lead was detected above its NYSDEC Part 375 Restricted-Residential SCO and several PAHs were detected above their respective NYSDEC Part 375 Restricted-Commercial SCOs.
- VOC analytes were not detected above their respective NYSDEC groundwater quality standards (GWQS) from groundwater samples collected from TMW-1 through TMW-3.
- Based on the analytical results of this investigation, significant PAH and metals impacts are evident. The environmental impacts can reasonably be attributed to the historical industrial use of the Site as a manufacturing facility.
- TurnKey understands that Chadwick Bay, LLC is considering purchasing and redeveloping the Site for mixed use residential and commercial purposes. Given the environmental impacts identified in this investigation, consideration should be given to applying to the New York Brownfield Cleanup Program (BCP) prior to Site redevelopment. The BCP offers Site remediation and redevelopment tax credits, as well as release of certain environmental liabilities from New York State, for entities that remediate and redevelop contaminated sites, such as the subject Site, into productive re-used properties.

LIMITATIONS

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

TABLES



TABLE 1
SUMMARY OF SURFACE SOIL ANALYTICAL RESULTS
208-214 WASHINGTON STREET SITE
DUNKIRK, NEW YORK

Parameter ¹	Unrestricted SCOs (mg/Kg) ²	Restricted Residential SCOs (mg/Kg) ³	Restricted Commercial SCOs (mg/Kg) ⁴	SAMPLE LOCATION			
				SS-2 (0'-0.5')	SS-3 (0'-0.5')	SS-4 (0'-0.5')	SS-5 (0'-0.5')
Poly-Aromatic Hydrocarbons (PAHs) ⁵ - mg/Kg							
Acenaphthylene	100	100	500	0.29 J	0.17 J	0.14 J	0.92 J
Acenaphthene	20	100	500	0.1 J	0.27 J	0.13 J	0.39 J
Anthracene	100	100	500	0.56 J	0.68 J	0.39 J	3.6
Benzo(a)anthracene	1	1	5.6	2.9	2.4	1.5	11
Benzo(b)fluoranthene	1	1	5.6	3.3	2.9	2.1	12
Benzo(k)fluoranthene	0.8	1	56	1.3	1.2	1.2	5.8
Benzo(g,h,i)perylene	100	100	500	0.47 J	0.46 J	0.41 J	1.7
Benzo(a)pyrene	1	1	1	2.2	1.9	1.3	7.1
Chrysene	1	1	56	3.3	2.4	1.8	8.4
Dibenzo(a,h)anthracene	0.33	0.33	0.56	0.13 J	0.19 J	0.17 J	0.69 J
Fluoranthene	100	100	500	5.4	5.7	3.4	25
Fluorene	30	100	500	ND	0.22 J	0.12 J	0.56 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	0.53 J	0.5 J	0.4 J	2
Naphthalene	12	100	500	0.46 J	0.21 J	0.13 J	0.25 J
Phenanthrene	100	100	500	2.5	3.9	2	15
Pyrene	100	100	500	4.7	ND	2.5	17
RCRA Metals - mg/Kg							
Arsenic	13	16	16	21.3	32.2	10.6	13.2
Barium	350	400	400	133	184	153	490
Cadmium	2.5	4.3	9.3	1.2	0.44	1.3	1.9
Chromium	30	180	400	20.4 B7	16.3 B7	23.2 B7	28.9 B7
Lead	63	400	1000	985	289	353	1020
Mercury	0.18	0.81	2.8	0.19	0.09	0.072	0.093
Polychlorinated Biphenyls (PCBs) - mg/Kg ⁵							
Aroclor 1221	0.1	1	1	ND	0.31	ND	ND
Aroclor 1254	0.1	1	1	ND	ND	0.18 J	ND
Aroclor 1260	0.1	1	1	ND	ND	0.13 J	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs).
3. Values per NYSDEC Part 375 Restricted-Residential Soil Cleanup Objectives (SCOs).
4. Values per NYSDEC Part 375 Restricted-Commercial Soil Cleanup Objectives (SCOs).
5. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

"-" = No SCO available.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

B7 = Analyte was detected in method blank at or above method reporting limit.

Concentration found in the sample was 10 times above the concentration found in the blank.

BOLD	= Value exceeds Unrestricted SCOs
BOLD	= Value exceeds Restricted Residential SCOs
BOLD	= Value exceeds Restricted Commercial SCOs



TABLE 2
SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS
208-214 WASHINGTON STREET SITE
DUNKIRK, NEW YORK

Parameter ¹	Unrestricted SCOs (mg/Kg) ²	Restricted Residential SCOs (mg/Kg) ³	Restricted Commercial SCOs (mg/Kg) ⁴	SAMPLE LOCATION				
				SB-1 (0'-4')	SB-4 (0'-6')	SB-6 (0'-6')	SB-9 (0'-6')	SB-9 (12'-14')
TCL plus STARS Volatile Organic Compounds (VOCs) ⁵ - mg/Kg								
Acetone	0.05	100	500	NA	NA	NA	NA	0.014 J
Cyclohexane	--	--	--	NA	NA	NA	NA	0.0009 J
Methylcyclohexane	--	--	--	NA	NA	NA	NA	0.0018 J
Poly-Aromatic Hydrocarbons (PAHs) ⁵ - mg/Kg								
Acenaphthylene	100	100	500	0.3	0.023 J	0.013 J	0.037 J	NA
Acenaphthene	20	100	500	0.83	ND	ND	0.14 J	NA
Anthracene	100	100	500	2	0.025 J	0.048 J	0.39	NA
Benzo(a)anthracene	1	1	5.6	2.9	0.14 J	0.19 J	0.88	NA
Benzo(b)fluoranthene	1	1	5.6	2.5	0.2 J	0.2 J	0.98	NA
Benzo(k)fluoranthene	0.8	1	56	1.1	0.057 J	0.1 J	0.34	NA
Benzo(g,h,i)perylene	100	100	500	0.27	0.034 J	0.38 J	0.16 J	NA
Benzo(a)pyrene	1	1	1	1.7	0.1 J	0.15 J	0.61	NA
Chrysene	1	1	56	2.6	0.16 J	0.19 J	0.89	NA
Dibenzo(a,h)anthracene	0.33	0.33	0.56	0.16 J	ND	0.022 J	0.058 J	NA
Fluoranthene	100	100	500	6.1	0.28	0.38	2	NA
Fluorene	30	100	500	0.97	ND	0.016 J	0.14 J	NA
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	0.34	0.038 J	0.039 J	0.16 J	NA
Naphthalene	12	100	500	0.51	0.031 J	0.035 J	0.06 J	NA
Phenanthrene	100	100	500	6.5	0.15 J	0.22	1.8	NA
Pyrene	100	100	500	4.1	0.2 J	0.27	1.5	NA
RCRA Metals - mg/Kg								
Arsenic	13	16	16	13.1	14	9.8	8.3	NA
Barium	350	400	400	400	162	93.9	55.7	NA
Cadmium	2.5	4.3	9.3	1.7	1.3	ND	0.26	NA
Chromium	30	180	400	16 B7	17 B7	7.5 B7	9.7 B7	NA
Lead	63	400	1000	359	353	78	483	NA
Mercury	0.18	0.81	2.8	0.3	0.041	0.046	0.068	NA

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs).
- Values per NYSDEC Part 375 Restricted-Residential Soil Cleanup Objectives (SCOs).
- Values per NYSDEC Part 375 Restricted-Commercial Soil Cleanup Objectives (SCOs).
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

NA = Sample not analyzed for parameter.

--" = No SCO available.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

B7 = Analyte was detected in method blank at or above method reporting limit.

Concentration found in the sample was 10 times above the concentration found in the blank.

BOLD	= Value exceeds Unrestricted SCOs
BOLD	= Value exceeds Restricted Residential SCOs
BOLD	= Value exceeds Restricted Commercial SCOs



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
208-214 WASHINGTON STREET SITE
DUNKIRK, NEW YORK

Parameter ¹	NYSDEC Class GA Groundwater Quality Standards ²	Sample Locations		
		TMW-1	TMW-2	TMW-3
TCL plus STARS Volatile Organic Compounds (VOCs) - ug/L				
Acetone	50	4.8 J	ND	3.7 J
Carbon disulfide	60	0.85 J	ND	0.68 J
Cyclohexane	--	9.3	ND	1.7
2-Hexanone	50	1.4 J	ND	ND
1,2,4 Trimethylbenzene	5	3.9	ND	ND
1,3,5 Trimethylbenzene	5	1.1	ND	ND
Methylcyclohexane	--	15	ND	3.5
Total Xylene	5	3.3	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC part 703.5, table 1, Class GA Groundwater Quality Standards.
3. Excludes TICs identified in the laboratory blank.

Definitions:

ND = Parameter not detected above laboratory detection limit.

-- = No SCO available.

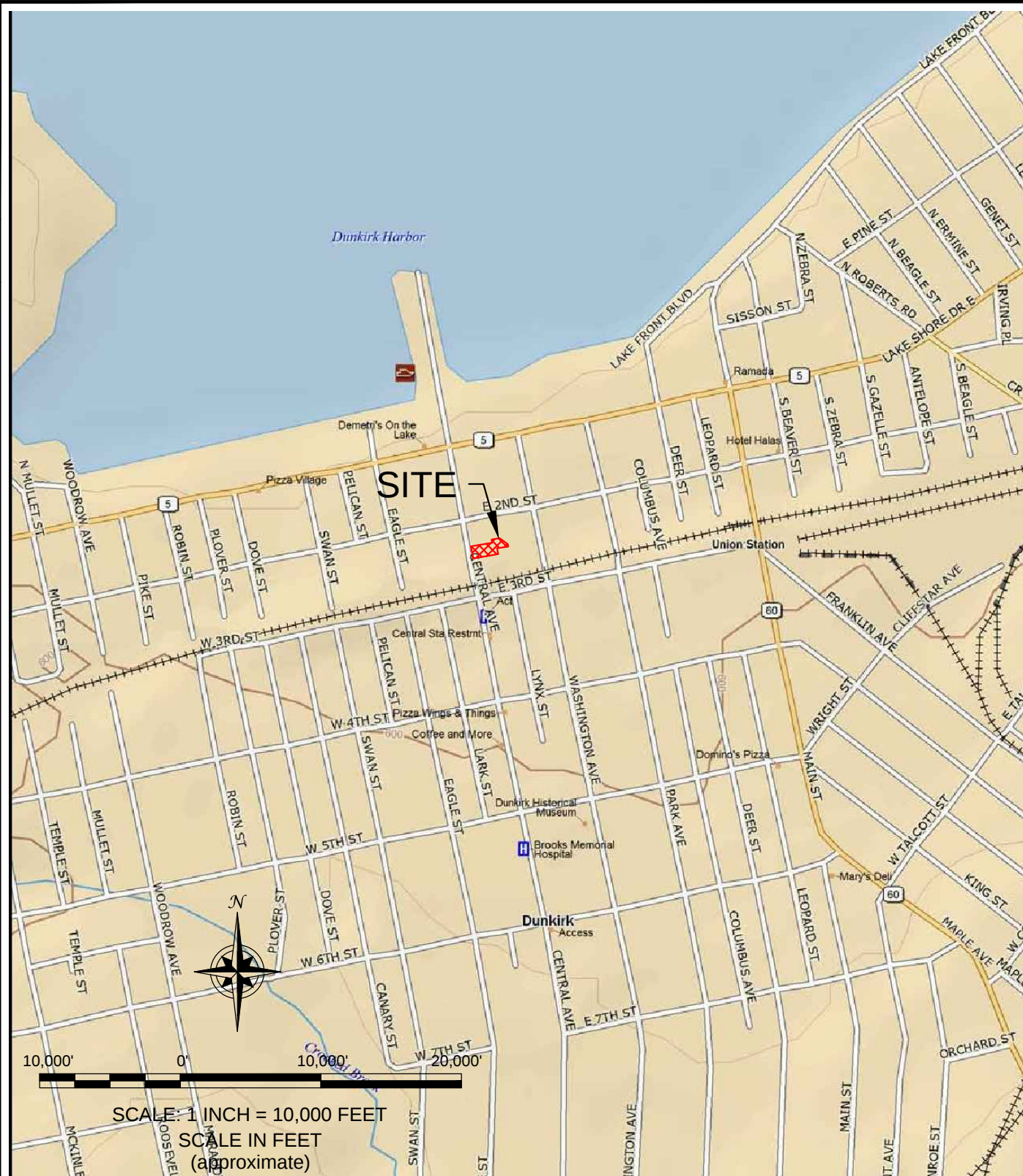
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

BOLD

Sample Result exceeds NYSDEC Groundwater Quality Standards. (None)

FIGURES

FIGURE 1



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

SITE LOCATION AND VICINITY MAP

PHASE II ENVIRONMENTAL SITE INVESTIGATION

208-214 WASHINGTON AVENUE SITE

DUNKIRK, NEW YORK

PREPARED FOR

CHADWICK BAY, LLC

PROJECT NO.: 0254-012-100

DATE: APRIL 2012

DRAFTED BY: JGT



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0254-012-100

DATE: APRIL 2012

DRAFTED BY: JGT

INVESTIGATION SAMPLE LOCATIONS

PHASE II ENVIRONMENTAL SITE INVESTIGATION

208-214 WASHINGTON AVENUE SITE

DUNKIRK, NEW YORK

PREPARED FOR

CHADWICK BAY, LLC

FIGURE
□

APPENDIX A

FIELD GEOPROBE BOREHOLE LOGS

Project No: 0254-012-100

Borehole Number: SB-1/TMW-1

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

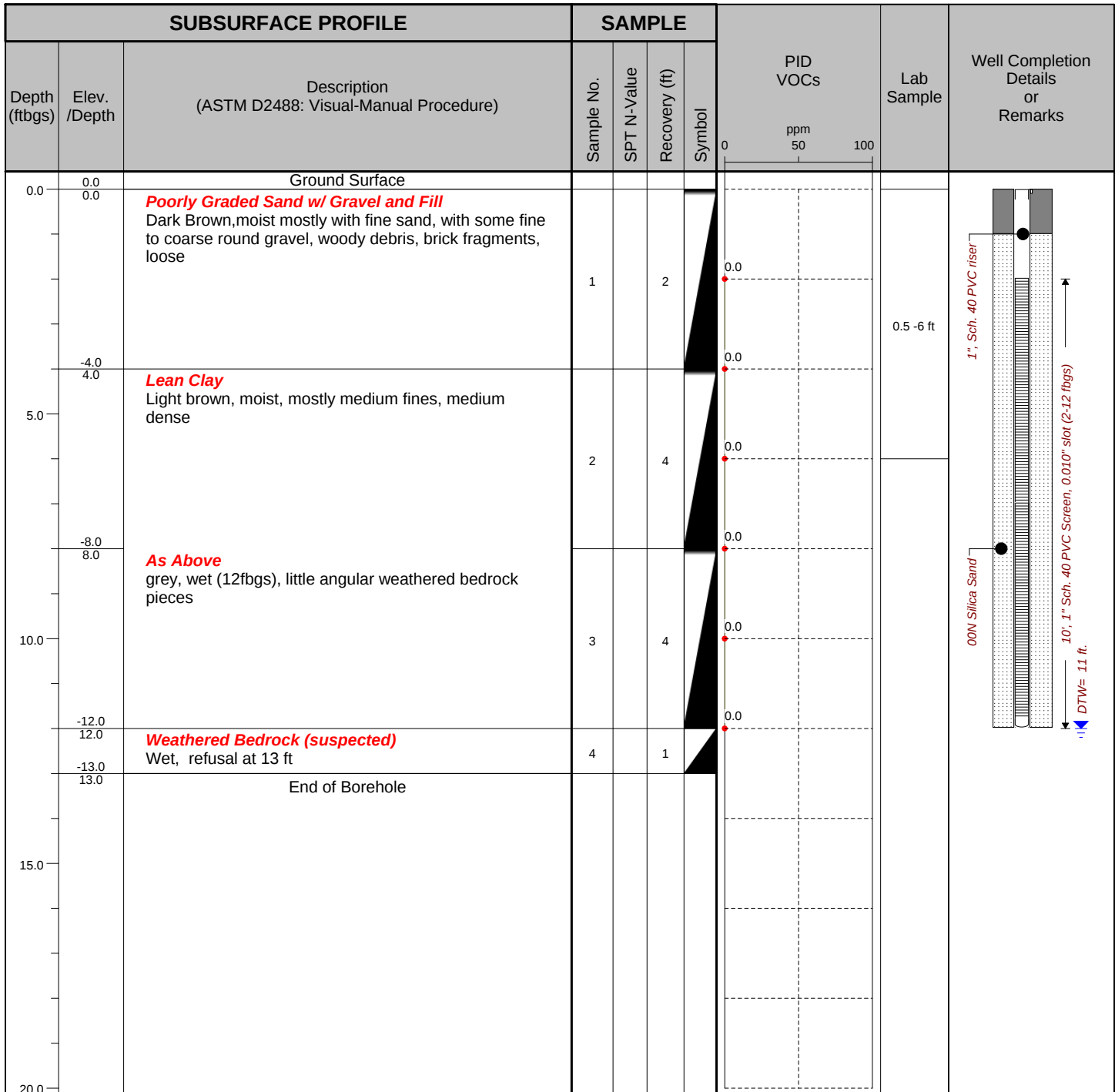
Logged By: RLD

Site Location: 208- 214 Washington Street, Dunkirk, NY

Checked By:



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



Drilled By: Russo Development

Drill Rig Type: Track Mount Direct Push

Drill Method: Direct Push

Comments: Installed temporary 1-inch well at boring location.

Drill Date(s): 3/16/12

Hole Size: 1.25 -inch

Stick-up: NA

Datum: NA

Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-2

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington, Street Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 50 100	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
	0.0	Poorly Graded Sand w/ Gravel and Fill Dark brown, moist, mostly fine sand, with some fine to coarse round gravel, woody debris, brick fragments, loose	1		2		0.0		
	-3.0								
	3.0	Lean Clay Grey, moist to wet (4fbgs), mostly medium plasticity fines, medium dense, mottled					0.0		
	-4.0								
	4.0	As above light brown, wet, trace angular gravel,					0.0		
5.0									
	-6.0						0.0		
	6.0	As above grey, wet, trace round fine gravel, weathered shale	2		4		0.0		
							0.0		
							0.0		
		Refusal at 12.5 ft.					0.0		
10.0			3		4		0.0		
							0.0		
	-12.5						0.0		
	12.5	End of Borehole							
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up: NA
Datum: NA
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-3

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington Street Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface					0 ppm		
	0.0	Poorly Graded Sand w/ Gravel Fill Dark brown, moist mostly fine sand with some fine to coarse gravel, brick fragments, loose	1		1.5		0.0		
	-4.0	As above wet (4.0 fbgs)					0.0		
5.0	4.0						0.0		
	-6.0	Lean Clay Grey, wet, mostly medium plasticity fines, trace round fine gravel, weathered shale	2		1		0.0		
	6.0						0.0		
							0.0		
10.0			3		4		0.0		
		Refusal at 13.5 ft					0.0		
	-13.5		4		1.5		0.0		
	13.5	End of Borehole							
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up: NA
Datum: NA
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-4

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington Street, Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 50 100	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
		Poorly Graded Sand w/ Gravel Fill Dark brown fine sand and gravel, moist, trace brick fragments	1	2.5			0.0		
							0.0		
		As above coal lense (<1-inch thick)					0.0		
5.0	-4.0 4.0						0.0		
		Lean Clay Grey, wet, mostly medium plasticity fines, trace round fine gravel, weathered shale	2	4			0.0		
	-6.0 6.0						0.0		
							0.0		
10.0			3	4			0.0		
							0.0		
		Refusal at 14 ft	4	2			3.7		
	-14.0 14.0								
		End of Borehole							
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up:
Datum:
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-5

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington Street, Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 50 100	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface							
		Poorly Graded Sand Black and light brown, wet mostly fine sand, loose	1		2		0.0		
							0.0		
	-4.0 4.0	As above wet (4.0 fbgs) trace fine angular gravel					0.0		
5.0			2		4		0.0		
	-6.0 6.0	Lean Clay Grey, wet, mostly medium plasticity fines, trace round gravel, medium dense					0.0		
							0.0		
	-8.0 8.0	As above very soft (9-10 fbgs) weathered shale (10- 12 fbgs)					0.0		
10.0			3		4		0.0		
	-12.0 12.0	As above weathered angular shale slight chemical odor					0.0		
		Refusal at 14.0 ft	4		2		9.7		
	-14.0 14.0	End of Borehole							
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up: NA
Datum: NA
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-6/TMW-2

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

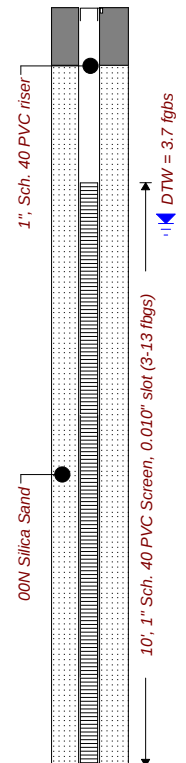
Site Location: 208-214 Washington Street, Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0	Ground Surface					0 ppm 50 100		
		Poorly Graded Sand w/ Fill Dark brown, wet, mostly fine sand with some fine to coarse round gravel, woody debris, brick fragments, loose	1	2			0.0	0.5 - 6 ft	
5.0							0.0		
	-6.0	Lean Clay Grey, wet, soft, mostly medium plasticity fines	2	2			0.0		
	6.0						0.0		
	-8.0	As above Grey, moist, stiff, with some weathered angular shale pieces					0.0		
	8.0						0.0		
10.0			3	4			0.0		
		Refusal at 13ft					0.0		
	-13.0		4	1			0.0		
	13.0	End of Borehole							
15.0									
20.0									



Drilled By: Russo Development

Drill Rig Type: Track Mount Direct Push

Drill Method: Direct Push

Comments: Installed temporary 1-inch well at boring location.

Drill Date(s): 3/16/12

Hole Size: 1.25 -inch

Stick-up: NA

Datum: NA

Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-7

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington Street Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs ppm 0 50 100	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface							
		No Recovery							
			1		0		0.0		
							0.0		
	-4.0 4.0	Sandy Lean Clay Olive brown, moist, mostly medium plasticity fines, with some fine sand, medium dense					0.0		
5.0			2		3		0.0		
							0.0		
	-8.0 8.0	Lean Clay Grey, moist, mostly medium plasticity fines, trace fine sand, trace shale pieces					0.0		
							0.0		
10.0			3		3		0.0		
	-12.0 12.0	Refusal at 13 fbgs Slight chemical odor					10.0		
	-13.0 13.0	End of Borehole	4		1				
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up: NA
Datum: NA
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-8

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

Logged By: RLD

Site Location: 208-214 Washington Street, Dunkirk, NY

Checked By:



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

SUBSURFACE PROFILE			SAMPLE				PID VOCs	Lab Sample	Well Completion Details or Remarks
Depth (ftbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol			
0.0	0.0 0.0	Ground Surface					0 ppm 50 100		
		No Recovery							
			1	0			0.0		
							0.0		
	-4.0 4.0	Lean Clay Olive brown, moist, mostly medium plasticity fines, with trace fine sand and fine gravel, medium dense	2	3			0.0		
							0.0		
							0.0		
	-8.0 8.0	As above Grey, moist, trace weathered shale (12fbgs)	3	4			0.0		
							0.0		
							1.5		
	-12.0 12.0	Lean Clay as above Refusal at 13 fbgs	4	1					
	-13.0 13.0	End of Borehole							
15.0									
20.0									

Drilled By: Russo Development
Drill Rig Type: Track Mount Direct Push
Drill Method: Direct Push
Comments:
Drill Date(s): 3/16/12

Hole Size: 1.25 -inch
Stick-up: NA
Datum: NA
Sheet: 1 of 1

Project No: 0254-012-100

Borehole Number: SB-9/TMW-3

Project: Phase II Environmental Investigation

A.K.A.:

Client: Chadwick Bay, LLC

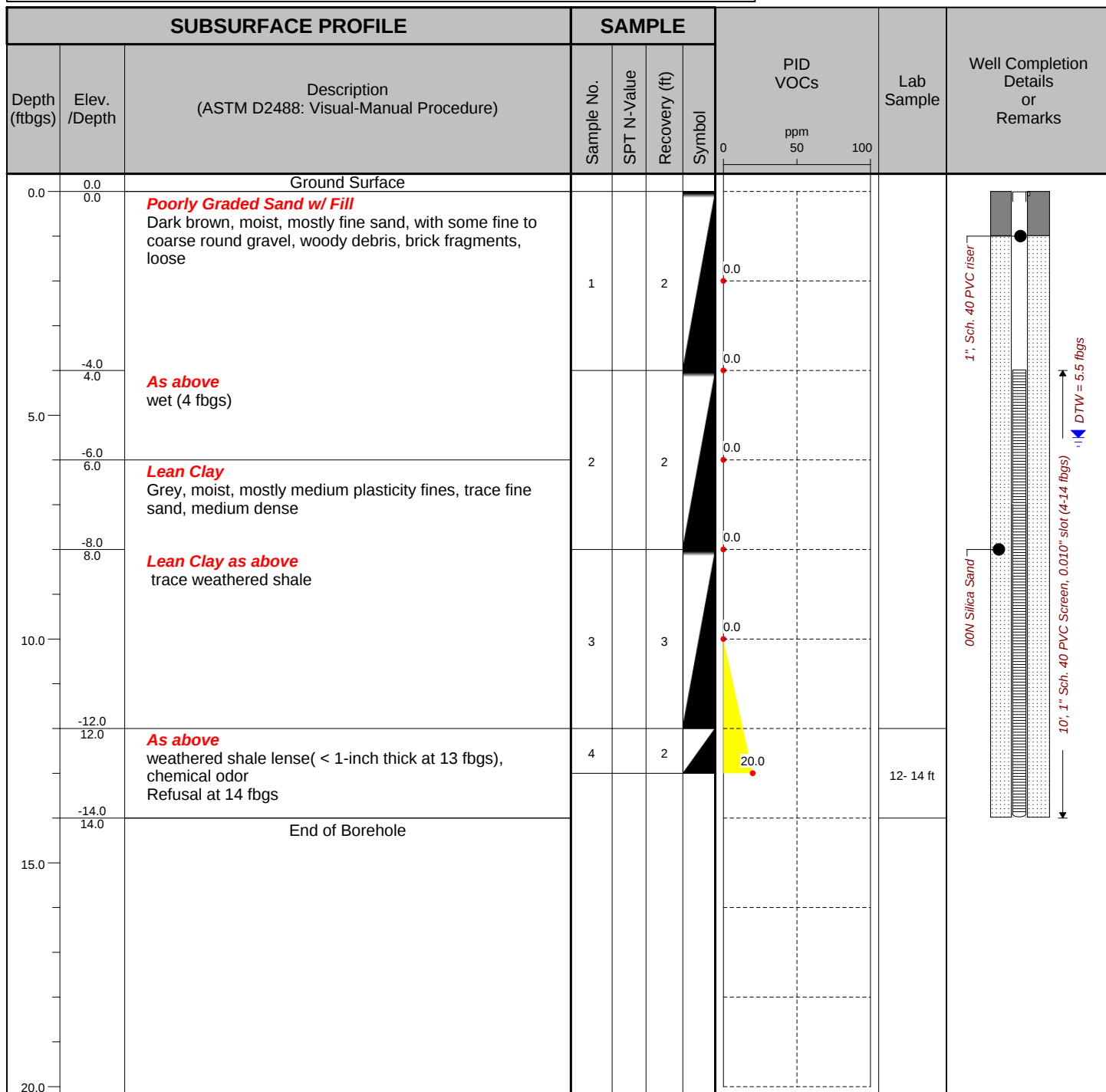
Logged By: RLD

Site Location: 208-214 Washington Street, Dunkirk, NY

Checked By:



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



Drilled By: Russo Development

Drill Rig Type: Track Mount Direct Push

Drill Method: Direct Push

Comments: Installed temporary 1-inch well at boring location.

Drill Date(s): 3/16/12

Hole Size: 1.25 -inch

Stick-up: NA

Datum: NA

Sheet: 1 of 1