Sampling Summary Report

for

Jamaica Bay Greenway - Paerdegat Avenue North Connector Flatlands Avenue from Ralph Avenue to East 76th Street, etc. Brooklyn, New York

DDC PROJECT NO. HWK2048

WORK ORDER NO. OEHS-20201409799-WOL-119

CONTRACT REGISTRATION NO. 20201409799

Prepared for:

NYC DDC Department of Design and Construction

Office of Environmental and Hazmat Services

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PROJECT NO. 31402661.080

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1.0 INTRODUCTION

At the request of the New York City Department of Design and Construction (DDC), Louis Berger U.S., Inc., a WSP Company (Louis Berger) prepared this Sampling Summary Report (SSR) for the HWK2048 Corridor located in the Canarsie section of the Borough of Brooklyn, New York (hereinafter referred to as the "Corridor"). This SSR documents field sampling activities including the advancement of soil borings, the screening of soils, and the collection and analyses of soil and groundwater samples.

1.1 Project Description

The scope of the HWK2048 activities consists of infrastructure improvement, including the permanent construction of a two-way, grade-separated Greenway path along Flatlands Avenue from Ralph Avenue to Paerdegat Avenue North and from Flatlands Avenue to Paerdegat 2nd Street along Paerdegat Avenue North, as well as curb, sidewalk, sewer, water main, street lighting, and traffic work. Additionally, a concrete pedestrian island will be built to provide safer crossing at the intersection of Paerdegat Avenue North and Seaview Avenue, and a missing segment of the existing New York State (NYS) Bike Network will be constructed to connect the Canarsie neighborhood to Canarsie Park and Gateway National Recreation Area. The Corridor consists of the following two segments in the Canarsie neighborhood of Brooklyn, New York:

Northwestern Corridor Segment

- Paerdegat Avenue North from Flatlands Avenue to Paerdegat 2nd Street;
- Flatlands Avenue from 20 feet northeast of Paerdegat Avenue North to Ralph Avenue;
- Ralph Avenue from 115 feet north to 170 feet south of Flatlands Avenue;
- Paerdegat Avenue South from Flatlands Avenue to 95 feet northwest of Flatlands Avenue;
- Paerdegat 1st Street from East 77th Street to 150 feet northeast of East 77th Street; and,
- East 77th Street from Paerdegat 1st Street to 115 feet northwest of Paerdegat 1st Street.

Southeastern Corridor Segment

- Paerdegat Avenue North from Seaview Avenue to 125 feet northwest of Seaview Avenue; and,
- Seaview Avenue from 45 feet northeast to 70 feet southwest of Paerdegat Avenue North.

The infrastructure improvements will generate approximately 1,923 cubic yards (CY) of soil. Soils generated as part of the HWK2048 infrastructure activities will be managed as per applicable New

York State Department of Environmental Conservation (NYSDEC) Part 375 Restricted Use soil cleanup objectives (SCOs) for Commercial Criteria and any additional specifications required by the DDC.

Based on information provided by the DDC, the proposed depth of excavation for the infrastructure project is estimated to range from 6 feet below grade (ftbg) in the Northwestern Corridor Segment to 10 ftbg in the southeastern Corridor Segment.

2.0 FIELD ACTIVITIES

Louis Berger provided oversight for the advancement of five soil borings and collected soil samples during the field investigation conducted on September 14, 2021, in the vicinity of the planned construction. Drilling services for the advancement of the soil borings were provided by PAL Environmental Services (PAL).

2.1 Utility Mark-Outs

Prior to the beginning of invasive field activities, PAL contacted the New York one-call center to mark-out utilities beneath the sidewalk at each boring location. Additionally, soil borings SB04 and SB05 were cleared with a geophysical survey.

2.2 Soil Sampling and Analysis

Soil borings for proposed utility installation excavations were performed to a maximum of 6 ftbg. Soil samples were collected utilizing a 5-foot macrocore sampler fitted with a 2-inch diameter acetate liner. Upon retrieval from the macrocore, each liner was split length wise and screened along the vertical length of the soil column using a photoionization detector (PID) and visual/olfactory senses.

One grab and one composite soil sample was collected from each boring for laboratory analysis. The grab soil samples were collected from either the 6-inch interval above the terminal depth of the proposed excavation (where recovery allowed) or the 6-inch interval above the groundwater table (when encountered). The composite soil sample was prepared by homogenizing the entire length of the soil boring for each soil boring. Grab and composite samples were identified as SB01 through SB05.

Upon completion of the soil boring activities, all soil cuttings generated during were returned to the same borehole and patched.

The grab and composite soil samples were collected from the following intervals:

Boring ID/Sample ID	Proposed Utility	Depth of Proposed Excavation (ftbg)	Depth of Boring (ftbg)	Grab Sample Interval (ftbg)	Composite Sample Interval (ftbg)
SB01	20" Water Main	6	6	5.5 - 6.0	0.0 - 6.0
SB02	12" Water Main	6	6	5.5 - 6.0	0.0 - 6.0
SB03/ TWP01	12" Water Main	6	6	5.5 - 6.0	0.0 - 6.0
SB04/ TWP02	New Catch Basin	8	6*	2.5 - 3.0	0.0 - 3.0
SB05	New Catch Basin	8	4*	3.5 - 4.0	0.0 - 4.0

* Groundwater was encountered in soil borings SB04 and SB05 at depths of 3.0 and 4.0 ftbg, respectively. Soil boring SB05 was terminated at groundwater, however, soil boring SB04 was advanced to install a temporary well point.

The soil samples were transferred into laboratory-supplied sample jars and properly labeled. The samples were stored with ice in a cooler to preserve the samples at approximately 4 degrees Celsius prior to and during shipment. A chain-of-custody was prepared prior to sample shipment. Soil samples were delivered to the lab at the completion of the field activities by Louis Berger. Laboratory analyses for soil and groundwater were provided by Hampton-Clarke (HC) of Fairfield, New Jersey, which is a New York State Department of Health (NYSDOH) ELAP-certified analytical laboratory (No. 11408).

The grab soil samples SB01 through SB05 were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) using U.S. Environmental Protection Agency (USEPA) Method 8260C. Additionally, grab soil samples SB04 and SB05 were analyzed for TCL semi-volatile organic compounds (SVOCs) by USEPA Method 8270 and polychlorinated biphenyls (PCBs) by USEPA Method 8082. The composite soil samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by USEPA Method 8270C, Total Petroleum Hydrocarbons-Diesel Range Organics/Gasoline Range Organics (TPH-DRO/GRO) by USEPA Method 8015B, PCBs by USEPA Method 8082A/608, Toxicity Characteristic Leaching Procedure (TCLP) Metals (Resource Conservation and Recovery Act [RCRA] 8) by USEPA Method 1311/6010B, RCRA Characteristics, including ignitability, reactivity and corrosivity, by USEPA Methods 9012B/9034, 1030/1010A, and 9045C, respectively, as well as Paint Filter Test by USEPA Method 9095B, for waste classification purposes.

2.3 Analytical Results

Analytical laboratory results indicated that there were no exceedances of the NYSDEC Part 375 Restricted Use SCOs for Commercial Criteria; however, soil sample SB03 exceeded the RCRA Hazardous Waste Action Level of 5 milligrams per liter (mg/L) or parts per million (ppm) for TCLP lead with a concentration of 16 mg/L or ppm.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluation of the field screening data and the laboratory analytical results, and a comparison to applicable regulatory standards, the following conclusions and recommendations are presented:

- The contract documents should identify provisions and a contingency for managing, handling, transporting, and disposing of any hazardous contaminated soils. The Contractor should be required to submit a Material Handling Plan to identify the specific protocol and procedures that will be employed to manage the waste in accordance with applicable regulations;

- Laboratory analytical results indicated soil sample SB03 exhibited evidence of hazardous waste characteristics for toxicity as discussed above and identified in Table 5. Upon commencement of the infrastructure improvement activities, the material shall be properly disposed of at a USEPA approved RCRA-Part B TSDF facility. Moreover, lithology indicates the presence of fill material in all soil borings; therefore, the TCLP lead and barium detections may be attributed to contaminants related to fill material; and,

- The soil pre-characterization results should be presented to disposal facilities for classification and acceptance in accordance with the individual facility permit requirements and State and Federal regulations.

The data presented, and the opinions expressed in this report are qualified as stated in the attachment to this section of the report and is considered a draft report pending the receival of the final laboratory analytical data

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STATEMENT OF LIMITATIONS

The data presented, and the opinions expressed in this report are qualified as follows:

The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.

Louis Berger derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

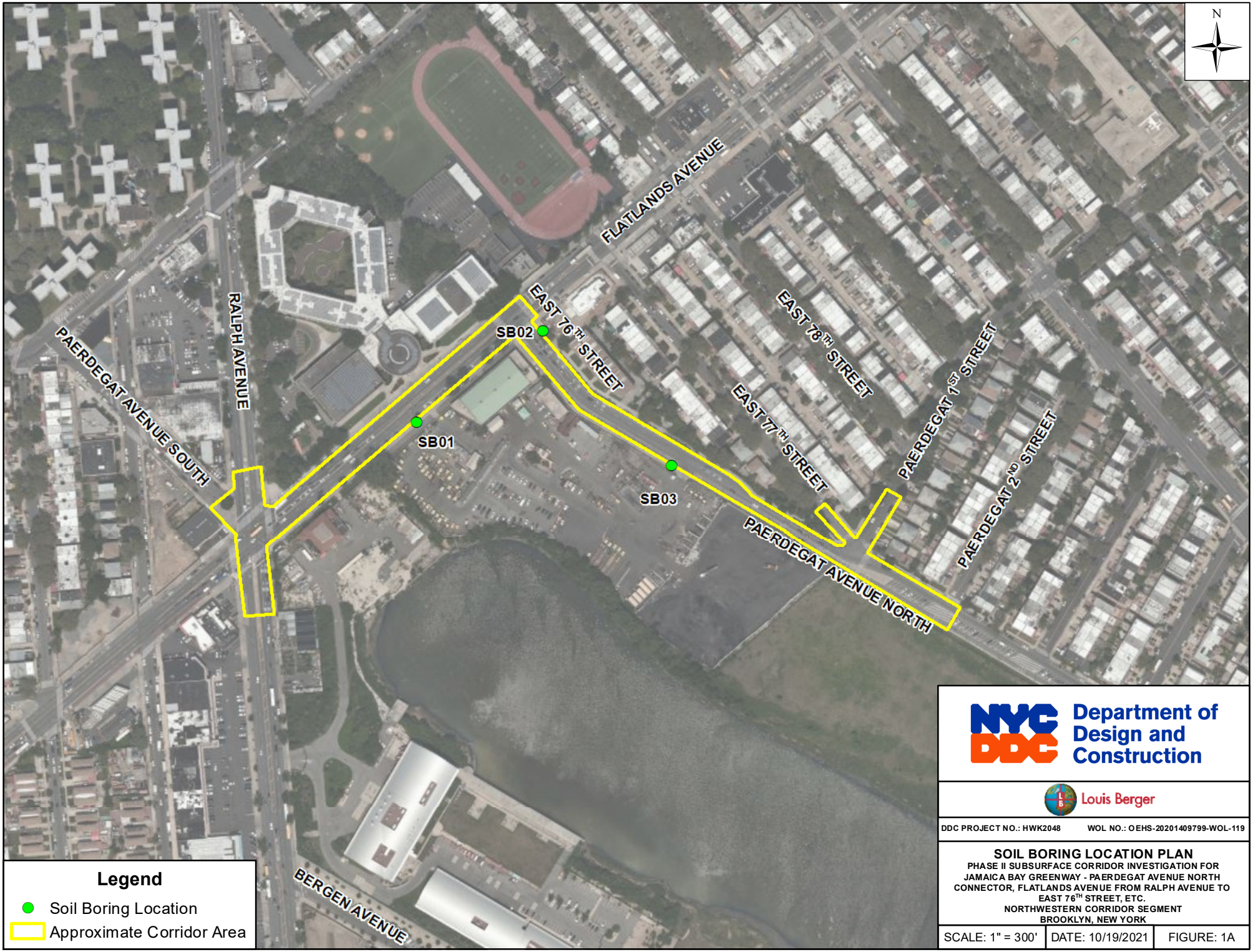
In preparing this report, Louis Berger has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, Louis Berger has not attempted to verify the accuracy or completeness of any such information.

The data reported, and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.

Because of the limitations stated above, the findings, observations, and conclusions expressed by Louis Berger in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon site conditions in existence at the time of investigation.

This report has been prepared on behalf of and for the exclusive use of the Client and is subject to and issued in connection with the Agreement and the provisions thereof.

FIGURE 1 – SOIL BORING LOCATION PLAN



NYC DDC Department of Design and Construction

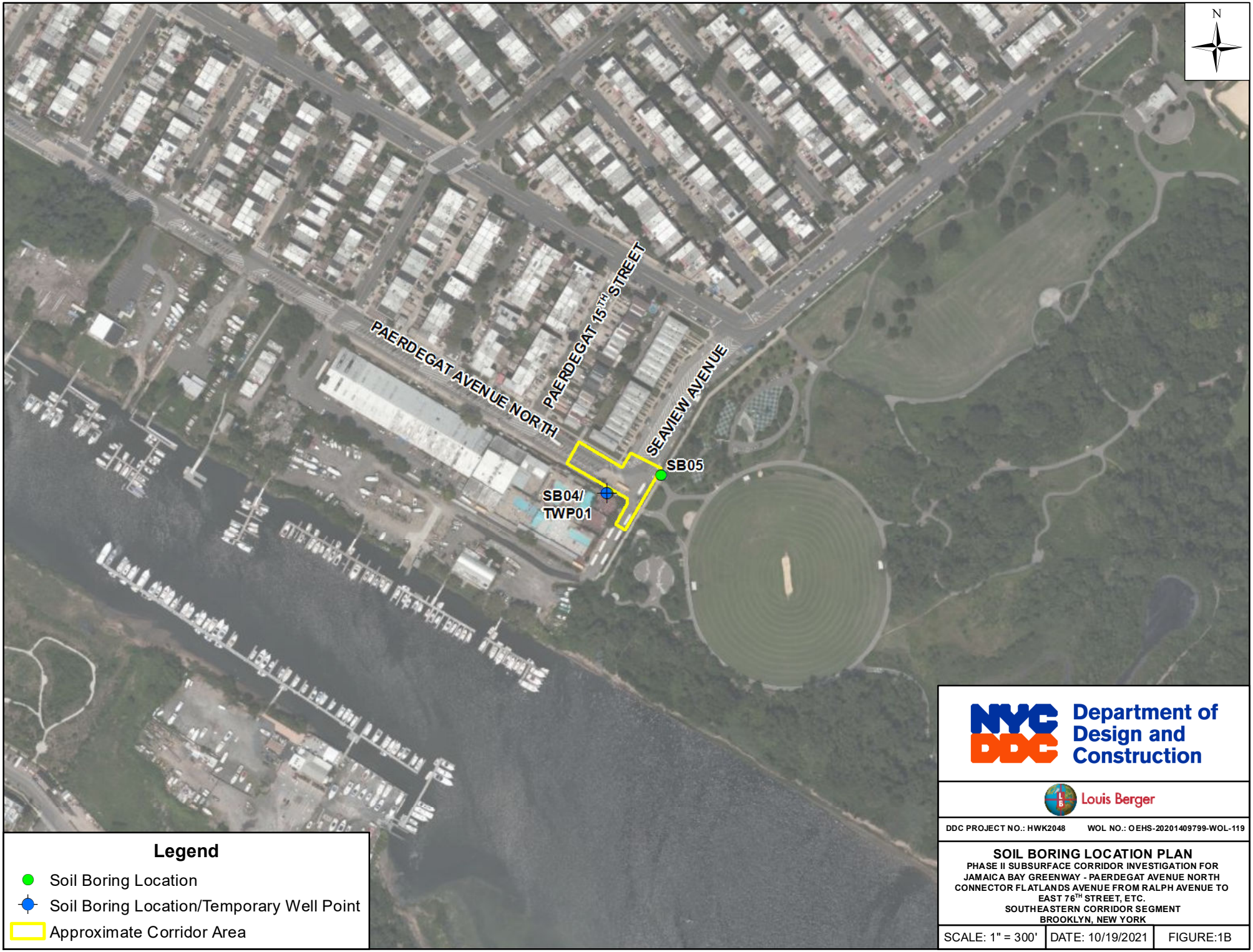
Louis Berger

DDC PROJECT NO.: HWK2048 WOL NO.: OEHS-20201409799-WOL-119

SOIL BORING LOCATION PLAN

PHASE II SUBSURFACE CORRIDOR INVESTIGATION FOR JAMAICA BAY GREENWAY - PAERDEGAT AVENUE NORTH CONNECTOR, FLATLANDS AVENUE FROM RALPH AVENUE TO EAST 76TH STREET, ETC.
NORTHWESTERN CORRIDOR SEGMENT
BROOKLYN, NEW YORK

SCALE: 1" = 300'	DATE: 10/19/2021	FIGURE: 1A



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SOIL BORING LOCATION PLAN

PHASE II SUBSURFACE CORRIDOR INVESTIGATION FOR JAMAICA BAY GREENWAY - PAERDEGAT AVENUE NORTH CONNECTOR FLATLANDS AVENUE FROM RALPH AVENUE TO EAST 76TH STREET, ETC.
SOUTHEASTERN CORRIDOR SEGMENT
BROOKLYN, NEW YORK

SCALE: 1" = 300'	DATE: 10/19/2021	FIGURE:1B

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Table 1. Summary of Environmental Boring Data
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

Boring No.	Sample ID	High PID (ppm)	Sample Interval (ftbg)	Total VOCs (mg/kg)	Total PAHs (mg/kg)	TCLP Metals Exceed (Yes/No)[1]	Depth to Water (ftbg)	Total Depth (ftbg)	Other Comments
SB01	SB01	<1	5.5 - 6.0	ND	-	No	NE	6.0	No visual or olfactory signs of contamination observed. Fill material was observed.
		<1	0.0 - 6.0	-	3.28				
SB02	SB02	<1	5.5 - 6.0	ND	-	No	NE	6.0	No visual or olfactory signs of contamination observed. Fill material was observed.
		<1	0.0 - 6.0	-	11.01				
SB03	SB03	<1	5.5 - 6.0	ND	-	YES	NE	6.0	No visual or olfactory signs of contamination observed. Fill material was observed. Fill material (wood) was observed.
		<1	0.0 - 6.0	-	1.30				
SB04/ TWP01	SB04	<1	2.5 - 3.0	ND	-	No	3	6.0	No visual or olfactory signs of contamination observed. Fill material was observed.
		<1	0.0 - 3.0	-	0.89				
SB05	SB05	<1	3.5 - 4.0	ND	-	No	4	4.0	No visual or olfactory signs of contamination observed. Fill material was observed.
		<1	0.0 - 4.0	-	0.493				

Notes:
[1] - TCLP metal(s) exceeds Resource Conservation and Recovery Act (RCRA) Hazardous Waste
All soil samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs), Toxicity Characteristic Leaching Procedure (TCLP) for Metals (RCRA 8), Total Petroleum Hydrocarbons, and RCRA Characteristics.
PID = Photoionization detector
ND = Not Detected
NE = Not Encountered
ftbg = feet below grade

Table 2. Summary of Target Compound List (TCL) Volatile Organic Compounds (VOCs) Detected in Soil
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

TCL VOCs	Commercial Use (Track 2) Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth				
		SB01	SB02	SB03	SB04	SB05
		9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
		5.5 - 6.0	5.5 - 6.0	5.5 - 6.0	2.5 - 3.0	3.5 - 4.0
VOCs		ND	ND	ND	ND	ND

Notes:
All concentrations are in parts per million or milligrams per kilogram (ppm or mg/kg)
ND = Compound not detected above method detection limit (see attached lab report for MDLs)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)

Table 3. Summary of Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs) Detected in Soil
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

TCL SVOCs	Commercial Use (Track 2) Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth				
		SB01	SB02	SB03	SB04	SB05
		9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
		-	-	-	2.5 - 3.0	3.5 - 4.0
3,3'-Dichlorobenzidine	NS	NA	NA	NA	0.82	ND
3-Nitroaniline	NS	NA	NA	NA	0.79	ND
4-Chloroaniline	NS	NA	NA	NA	0.69	ND
4-Nitroaniline	NS	NA	NA	NA	0.32	ND

Notes:
All concentrations are in parts per million or milligrams per kilogram (ppm or mg/kg)
ND = Compound not detected above method detection limit (see attached lab report for MDLs)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
NA = Not Analyzed
NS = No Standard

Table 4. Summary of Polychlorinated Biphenyls (PCBs) Detected in Soil
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

PCBs	Commercial Use (Track 2) Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth				
		SB01	SB02	SB03	SB04	SB05
		9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
		-	-	-	2.5 - 3.0	3.5 - 4.0
PCBs (Total)*	1	NA	NA	NA	ND	ND

Notes:
All concentrations are in parts per million or milligrams per kilogram (ppm or mg/kg)
ND = Compound not detected above method detection limit (see attached lab report for MDLs)
SCOs = Soil Cleanup Objectives as per the NYSDEC Regulations 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 14, 2006)
* Refers to the total concentration of PCBs in the sample
NA = Not Analyzed

Table 5. Summary of Waste Classification Results in Soil
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

Analyte	Resource Conservation and Recovery Act (RCRA) Hazardous Waste Levels	Commercial Use (Track 2) Soil Cleanup Objectives (SCOs)	Sample ID, Date Collected, and Depth				
			SB01	SB02	SB03	SB04	SB05
			9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
			0.0 - 6.0	0.0 - 6.0	0.0 - 6.0	0.0 - 3.0	0.0 - 4.0
RCRA (Including TCLP Metals)							
pH	2 - 12.5*	NA	8.1	7.6	7.8	6.8	7.4
Ignitability	>140 °F**	NA	NEG	NEG	NEG	NEG	NEG
Paint Filter Test	NS	NA	NEG	NEG	NEG	NEG	NEG
Reactive Cyanide	NS	NA	ND	ND	ND	ND	ND
Reactive Sulfide	NS	NA	ND	ND	ND	ND	ND
Arsenic	5	NA	ND	ND	ND	ND	ND
Barium	100	NA	ND	2.4	2.0	1.3	0.29
Cadmium	1	NA	ND	ND	ND	ND	ND
Chromium	5	NA	ND	ND	ND	ND	ND
Lead	5	NA	ND	1.6	16	0.40	0.11
Mercury	0.2	NA	ND	ND	ND	ND	ND
Nickel	NS	NA	ND	ND	ND	ND	ND
Selenium	1	NA	ND	ND	ND	ND	ND
Silver	5	NA	ND	ND	ND	ND	ND
TPH DRO/GRO (mg/kg)							
Total Petroleum Hydrocarbons	NS	NA	ND	120	ND	ND	ND
Gasoline Range Organics	NS	NA	ND	ND	ND	ND	ND
PCBs (mg/kg)							
PCBs (Total)*	NA	1	ND	ND	ND	ND	ND
PAHs (mg/kg)							
Anthracene	NA	500	0.057	0.21	ND	ND	ND
Benzo[a]anthracene	NA	5.6	0.31	0.96	0.17	0.13	0.055
Benzo[a]pyrene	NA	1	0.29	0.87	0.15	0.12	0.061
Benzo[b]fluoranthene	NA	5.6	0.36	1.3	0.24	0.2	0.088
Benzo[g,h,i]perylene	NA	500	0.20	0.56	ND	ND	0.056
Benzo[k]fluoranthene	NA	56	0.083	0.35	ND	ND	ND
Chrysene	NA	56	0.34	1.0	0.18	ND	0.061
Dibenzo[a,h]anthracene	NA	0.56	0.05	0.16	ND	ND	ND
Fluoranthene	NA	500	0.48	2.0	0.28	0.22	0.081
Indeno[1,2,3-cd]pyrene	NA	5.6	0.16	0.5	ND	ND	ND
Phenanthrene	NA	500	0.28	1.2	ND	ND	ND
Pyrene	NA	500	0.67	1.9	0.28	0.22	0.091

Notes:
All concentrations are in parts per million, milligrams per kilogram, or milligrams per liter (ppm, mg/kg, or mg/L), unless otherwise noted
TCLP = Toxicity Characteristic Leaching Procedure
NS = No Standard
NA = Not Applicable or Not Analyzed
*A solid waste exhibits the characteristic of corrosivity if it has a pH less than or equal to 2 or greater than or equal to 12.5
**A solid waste exhibits the characteristic of ignitability if it has flash point less than 140 °F
°F = Degrees Fahrenheit
NEG = Negative (flash point was not detected below 140 °F) or Negative (free liquids were not detected during Paint Filter Test) or Negative (flame did not propagate down the 200 millimeter track)
ND = Compound not detected above method detection limit (see attached lab report for MDLs)
Shading = Concentration exceeds RCRA Hazardous Waste Levels and/or Commercial Use (Track 2) Soil Cleanup Objectives

Table 6. Summary of Target Compound List (TCL) Volatile Organic Compounds (VOCs) Detected in Groundwater
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

TCL VOCs	NYSDEC Class GA Groundwater Standards and Guidance Values	Sample ID and Date Collected
		TWP01
		9/14/2021
VOCs		ND

Notes:
ND = Compound not detected above method detection limit (see attached lab report for MDLs)

Table 7. Summary of Target Compound List (TCL) Semi-Volatile Organic Compounds (VOCs) Detected in Groundwater
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

TCL SVOCs	NYSDEC Class GA Groundwater Standards and Guidance Values	Sample ID and Date Collected
		TWP01
		9/14/2021
SVOCs		ND

Notes:
ND = Compound not detected above method detection limit (see attached lab report for MDLs)

Table 8. Summary of Polychlorinated Biphenyls (PCBs) Detected in Groundwater
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

PCBs	NYSDEC Class GA Groundwater Standards and Guidance Values	Sample ID and Date Collected
		TWP01
		9/14/2021
PCBs (total)*		ND

Notes:
ND = Compound not detected above method detection limit (see attached lab report for MDLs)

Table 9. Groundwater Quality Compared to New York City Department of Environmental Protection Limitations for Effluent to Sanitary or Combined Sewers
Sampling Summary Report for Jamaica Bay Greenway - Paerdegat Ave North Connector
Flatlands Ave from Ralph Ave to E 76th St, etc., Brooklyn, NY

Parameter[1]	NYC DEP Limitations to Sanitary or Combined Sewers	Sample ID and Date Collected TWP01 9/14/2021
Non-Polar Material[2]	50 mg/L	ND
Flash Point - Liquid/Solid	>140 °F	>141°F
pH	≥5 and ≤12	8.1
Cadmium (Instantaneous or Composite)	2 or 0.69 mg/L	ND
Chromium Hexavalent (VI)	5 mg/L	ND
Copper	5 mg/L	ND
Lead	2 mg/L	0.0076 mg/L
Mercury	0.05 mg/L	ND
Nickel	3 mg/L	ND
Zinc	5 mg/L	0.190 mg/L
Benzene	134 ug/L	ND
Carbon tetrachloride	NS	ND
Chloroform	NS	ND
1,4-Dichlorobenzene	NS	ND
Ethylbenzene	380 ug/L	ND
MTBE (Methyl-Tert-Butyl-Ether)	50 ug/L	ND
Naphthalene	47 ug/L	ND
Phenol	NS	ND
Tetrachloroethene	20 ug/L	ND
Toluene	74 ug/L	ND
1,2,4-Trichlorobenzene	NS	ND
1,1,1-Trichloroethane	NS	ND
Xylenes (Total)	74 ug/L	ND
PCBs (Total)[3]	1 ug/L	ND
Total Suspended Solids[4]	350 mg/L	81 mg/L
CBOD[5]	NS	ND
Chloride[5]	NS	590 mg/L
Total Kjeldahl Nitrogen	NS	0.45 mg/L
Total Solids[5]	NS	1,300 mg/L

Notes:
NS = No Standard
ND = Compound not detected above method detection limit (see attached lab report for MDLs)
[1] All handling and preservation of collected samples and laboratory analyses of samples was performed in accordance with 40 CFR Part 136.
[2] Analysis for non-polar materials was performed by EPA method 1664.
[3] Analysis for polychlorinated biphenyls (PCBs) was performed according to EPA method 608 with method detection limit ≤ 65 parts per trillion.
Analysis for PCBs is required if discharge ≥ 10,000 gallons per day (gpd) and duration of discharge > 10 days.
[4] For discharge ≥ 10,000 gpd, the total suspended solids (TSS) limit is 350 mg/l. For discharge < 10,000 gpd, the limit is determined on a case by case basis.
[5] Analysis for Carbonaceous Biochemical Oxygen Demand (CBOD), Chloride, Total Solids, and Total Nitrogen are required if proposed discharge ≥ 10,000 gpd.

APPENDIX A
GEOLOGIC BORING LOGS

Louis Berger

Drilling Log

Page 1 of 1

BORING NO.: SB01

LOCATION: Brooklyn, NY

CLIENT:	NYC Department of Design and Construction	**PROJECT NO.:**	31402661.080
PROJECT:	Phase II SCI Jamaica Bay Greenway - Paerdegat Ave North Connector	**FMS ID#:**	HWK2048
DRILLING CONTRACTOR:	PAL Environmental Services	**WOL #:**	OEHS-20201409799-WOL-119
DRILLING METHOD:	Airknife and Vactron	**DATE STARTED:**	9/14/2021
BOREHOLE DATA		**DATE FINISHED:**	9/14/2021
Diameter (in):	6.0	**DRIILER:**	E. Watkins
Total Depth (ft.):	6	**LBA INSPECTOR:**	H. August
Depth to Refusal (ft):	N/A	**NORTHING (ft):**	169863.7454
Depth to Water (ft.):	N/A	**EASTING (ft):**	1007254.641
Depth to Rock (ft.):	N/A	**SURFACE ELEVATION (ft):**	N/A
WELL DATA			
Well Diameter (in):	N/A		
Total Depth (ft.):	N/A		
Screen Length (ft):	N/A		
Depth to Water (ft.):	N/A		
Slot Size (in):	N/A		

NOTES: Soil description based on Unified Soil Classification System (USCS), Burmister Classification and Munsell Rock Color Chart.

Well Construction	Depth (feet)	Lithology	USCS	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	0		TOPSOIL			<1	Dusky brown (5YR 2/2), medium to fine SAND, trace Silt, little medium to fine Gravel, moist.	**Sand (Top Soil)**
	1		FILL			<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, trace coarse to fine Gravel, moist.	**Sand (Fill)**
	3		FILL			<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, trace coarse to fine Gravel, moist.	**Collected grab sample SB01 from 5.5 to 6.0 ftbg and composite sample SB01 from 0.0 to 6.0 ftbg.**
	6						Total Depth of Boring 6 feet.	

Louis Berger

Drilling Log

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BORING NO.: SB02

LOCATION: Brooklyn, NY

CLIENT:	NYC Department of Design and Construction	**PROJECT NO.:**	31402661.080
PROJECT:	Phase II SCI Jamaica Bay Greenway - Paerdegat Ave North Connector	**FMS ID#:**	HWK2048
DRILLING CONTRACTOR:	PAL Environmental Services	**WOL #:**	OEHS-20201409799-WOL-119
DRILLING METHOD:	Airknife and Vactron	**DATE STARTED:**	9/14/2021
BOREHOLE DATA		**DATE FINISHED:**	9/14/2021
Diameter (in):	6.0	**DRIILER:**	E. Watkins
Total Depth (ft.):	6	**LBA INSPECTOR:**	H. August
Depth to Refusal (ft):	N/A	**NORTHING (ft):**	170092.7067
Depth to Water (ft.):	N/A	**EASTING (ft):**	1007571.111
Depth to Rock (ft.):	N/A	**SURFACE ELEVATION (ft):**	N/A

WELL DATA	
Well Diameter (in):	N/A
Total Depth (ft.):	N/A
Screen Length (ft):	N/A
Depth to Water (ft.):	N/A
Slot Size (in):	N/A

NOTES: Soil description based on Unified Soil Classification System (USCS), Burmister Classification and Munsell Rock Color Chart.

Well Construction	Depth (feet)	Lithology	USCS	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	0		TOPSOIL			<1	Dusky yellowish brown (10YR 2/2), coarse to fine SAND, some Silt, moist.	**Silty Sand (Topsoil)**
			FILL			<1	Olive gray (5Y 4/1), coarse to fine SAND, trace Silt, some medium to fine Gravel, moist.	**Gravelly Sand (Fill)**
	1							
	2		FILL			<1	Moderate brown (5YR 4/4), coarse to fine SAND, some Clayey Silt, trace medium to fine Gravel, moist.	**Clayey Silty Sand (Fill)**
			FILL			<1	Dark yellowish brown (10YR 4/2), coarse to fine SAND, little Silt, little medium to fine Gravel, moist.	**Sand (Fill)**
	3							
			FILL			<1	Moderate brown (5YR 4/4), coarse to fine SAND, trace Silt, little medium to fine Gravel, moist.	
	4							
			FILL			<1	Moderate brown (5YR 4/4), Clayey SILT, some medium to fine Sand, trace medium to fine Gravel, moist.	**Sandy Clayey Silt. Collected grab sample SB02 from 5.5 to 6.0 ftbg and composite sample SB02 from 0 to 6.0 ftbg.**
	5							
	6						Total Depth of Boring 6 feet.	

Drilling Log

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BORING NO.: SB03

LOCATION: Brooklyn, NY

CLIENT:	NYC Department of Design and Construction	**PROJECT NO.:**	31402661.080
PROJECT:	Phase II SCI Jamaica Bay Greenway - Paerdegat Ave North Connector	**FMS ID#:**	HWK2048
DRILLING CONTRACTOR:	PAL Environmental Services	**WOL #:**	OEHS-20201409799-WOL-119
DRILLING METHOD:	Airknife and Vactron	**DATE STARTED:**	9/14/2021
BOREHOLE DATA	**WELL DATA**	**DATE FINISHED:**	9/14/2021
Diameter (in): 6.0	**Well Diameter (in):** N/A	**DRIILER:**	E. Watkins
Total Depth (ft.): 6	**Total Depth (ft.):** N/A	**LBA INSPECTOR:**	H. August
Depth to Refusal (ft): N/A	**Screen Length (ft):** N/A	**NORTHING (ft):**	169756.701
Depth to Water (ft.): N/A	**Depth to Water (ft.):** N/A	**EASTING (ft):**	1007892.238
Depth to Rock (ft.): N/A	**Slot Size (in):** N/A	**SURFACE ELEVATION (ft):**	N/A

NOTES: Soil description based on Unified Soil Classification System (USCS), Burmister Classification and Munsell Rock Color Chart.

Well Construction	Depth (feet)	Lithology	USCS	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	0		FILL			<1	Grayish brown (5YR 3/2), Clayey SILT, and coarse to fine Sand, trace medium to fine Gravel, moist.	**Sandy Clayey Silt (Fill)**
	1		FILL			<1	Moderate brown (5YR 4/4), SAND, and Clayey Silt (5% fill material: wood), moist.	**Clayey Silty Sand (Fill)**
	3		FILL			<1	Moderate brown (5YR 4/4), Clayey SILT, and coarse to fine Sand (5% fill material: wood), moist.	**Sandy Clayey Silt (Fill). Collected grab sample SB03 from 5.5 to 6.0 ftbg and composite sample SB03 from 0 to 6.0 ftbg.**
	6						Total Depth of Boring 6 feet.	

Drilling Log

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BORING NO.: SB04/TWP01

LOCATION: Brooklyn, NY

CLIENT:	NYC Department of Design and Construction	**PROJECT NO.:**	31402661.080
PROJECT:	Phase II SCI Jamaica Bay Greenway - Paerdegat Ave North Connector	**FMS ID#:**	HWK2048
DRILLING CONTRACTOR:	PAL Environmental Services	**WOL #:**	OEHS-20201409799-WOL-119
DRILLING METHOD:	Airknife and Vactron	**DATE STARTED:**	9/14/2021
BOREHOLE DATA	**WELL DATA**	**DATE FINISHED:**	9/14/2021
Diameter (in): 6.0	**Well Diameter (in):** N/A	**DRIILER:**	E. Watkins
Total Depth (ft.): 6	**Total Depth (ft.):** N/A	**LBA INSPECTOR:**	H. August
Depth to Refusal (ft): N/A	**Screen Length (ft):** N/A	**NORTHING (ft):**	167465.6017
Depth to Water (ft.): 3.0	**Depth to Water (ft.):** N/A	**EASTING (ft):**	1011752.132
Depth to Rock (ft.): N/A	**Slot Size (in):** N/A	**SURFACE ELEVATION (ft):**	N/A

NOTES: Soil description based on Unified Soil Classification System (USCS), Burmister Classification and Munsell Rock Color Chart.
Groundwater sample TWP01 collected from a Temporary Well Point

Well Construction	Depth (feet)	Lithology	USCS	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	0		FILL			<1	Dark yellowish brown (10YR 4/2), coarse to fine SAND, some Silt, little medium to fine Gravel, moist.	**Silty Sand (Fill)**
			FILL			<1	Moderate brown (5YR 4/4), coarse to fine SAND, little Silt, little coarse to fine Gravel, moist.	**Sand (Fill). Collected grab sample SB04 from 2.5 to 3.0 ftbg and composite sample SB04 from 0 to 3.0 ftbg.**
▽	1							
	2							
	3							
	4							
	5							
	6						Total Depth of Boring 6 feet.	

Drilling Log

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BORING NO.: SB05

LOCATION: Brooklyn, NY

CLIENT:	NYC Department of Design and Construction	**PROJECT NO.:**	31402661.080
PROJECT:	Phase II SCI Jamaica Bay Greenway - Paerdegat Ave North Connector	**FMS ID#:**	HWK2048
DRILLING CONTRACTOR:	PAL Environmental Services	**WOL #:**	OEHS-20201409799-WOL-119
DRILLING METHOD:	Airknife and Vactron	**DATE STARTED:**	9/14/2021
BOREHOLE DATA		**DATE FINISHED:**	9/14/2021
Diameter (in):	6.0	**DRIILER:**	E. Watkins
Total Depth (ft.):	4	**LBA INSPECTOR:**	H. August
Depth to Refusal (ft):	N/A	**NORTHING (ft):**	167510.5412
Depth to Water (ft.):	4.0	**EASTING (ft):**	1011887.825
Depth to Rock (ft.):	N/A	**SURFACE ELEVATION (ft):**	N/A
WELL DATA			
Well Diameter (in):	N/A		
Total Depth (ft.):	N/A		
Screen Length (ft):	N/A		
Depth to Water (ft.):	N/A		
Slot Size (in):	N/A		

NOTES: Soil description based on Unified Soil Classification System (USCS), Burmister Classification and Munsell Rock Color Chart.

Well Construction	Depth (feet)	Lithology	USCS	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	0		CONCRETE			<1	Very light gray (N8), CONCRETE, dry.	**Concrete**
			FILL			<1	Medium dark gray (N4), coarse to fine GRAVEL, and coarse to fine Sand (Concrete Subbase), dry.	**Sandy Gravel (Fill)**
	1		FILL			<1	Black (N1), coarse to fine GRAVEL, and coarse to fine Sand, dry.	
			FILL			<1	Moderate brown (5YR 4/4), coarse to fine SAND, little Silt, some coarse to fine Gravel, moist.	**Gravelly Sand (Fill). Collected grab sample SB05 from 3.5 to 4.0 ftbg and composite sample SB05 from 0 to 4.0 ftbg.**
▽	2							
	3							
	4						Total Depth of Boring 4 feet.	
	5							
	6							

APPENDIX B
LABORATORY ANALYTICAL RESULTS

Hampton-Clarke Report Of Analysis

Client: WSP USA, Inc. **HC Project #:** 1091507

Project: Jamaica Bay

Sample ID: SB01 GRAB **Collection Date: 9/14/2021**
Lab#: AD25976-001 **Receipt Date: 9/14/2021**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		92

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethene	0.998	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0022	ND
1,2-Dibromoethane	0.998	mg/kg	0.00054	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dichloroethane	0.998	mg/kg	0.0022	ND
1,2-Dichloropropane	0.998	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0022	ND
2-Hexanone	0.998	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0022	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0022	ND
Bromodichloromethane	0.998	mg/kg	0.0022	ND
Bromoform	0.998	mg/kg	0.0022	ND
Bromomethane	0.998	mg/kg	0.0022	ND
Carbon disulfide	0.998	mg/kg	0.0037	ND
Carbon tetrachloride	0.998	mg/kg	0.0022	ND
Chlorobenzene	0.998	mg/kg	0.0022	ND
Chloroethane	0.998	mg/kg	0.0022	ND
Chloroform	0.998	mg/kg	0.0022	ND
Chloromethane	0.998	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Cyclohexane	0.998	mg/kg	0.0022	ND
Dibromochloromethane	0.998	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0022	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0013	ND
Methyl Acetate	0.998	mg/kg	0.0022	ND
Methylcyclohexane	0.998	mg/kg	0.0022	ND
Methylene chloride	0.998	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0022	ND
Tetrachloroethene	0.998	mg/kg	0.0022	ND
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Trichloroethene	0.998	mg/kg	0.0022	ND
Trichlorofluoromethane	0.998	mg/kg	0.0022	ND
Vinyl chloride	0.998	mg/kg	0.0022	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: SB01 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-002 | **Receipt Date: 9/14/2021**
Matrix: Soil

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**88**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	99.8	mg/kg	28	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	23.19	30	50	150	77	

Ignitability

Analyte	DF	Units	RL	Result
Burning Rate (mm/sec)	**1**			**NA**
Flame Propagation (POS/NEG)	**1**			**NEG**
Ignitability (POS/NEG)	**1**			**NEG**

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Anthracene	**1**	**mg/kg**	**0.038**	**0.057**
Benzo[a]anthracene	**1**	**mg/kg**	**0.038**	**0.31**
Benzo[a]pyrene	**1**	**mg/kg**	**0.038**	**0.29**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.038**	**0.36**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.038**	**0.20**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.038**	**0.083**
Chrysene	**1**	**mg/kg**	**0.038**	**0.34**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.038**	**0.050**
Fluoranthene	**1**	**mg/kg**	**0.038**	**0.48**
Fluorene	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.038**	**0.16**
Naphthalene	1	mg/kg	0.011	ND
Phenanthrene	**1**	**mg/kg**	**0.038**	**0.28**
Pyrene	**1**	**mg/kg**	**0.038**	**0.67**

Paint Filter Test 9095B

Analyte	DF	Units	RL	Result
Paint Filter Test	**1**			**NEG**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	124.02	100	37	141	124	
TCMX-Surrogate	123.86	100	37	141	124	
DCB-Surrogate	115.68	100	34	146	116	
DCB-Surrogate	114.66	100	34	146	115	

pH 9040C/9045D

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**8.1**

Sample ID: SB01 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-002 | **Receipt Date: 9/14/2021**
Matrix: Soil

Temperature	**1**	**c**		**22.9**

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

TCLP Metals 6010

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	ND
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	68	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
O-Terphenyl	15.52	20	30	146	78	
Chlorobenzene	12.64	20	20	117	63	

Sample ID: SB02 GRAB
Lab#: AD25976-003
Matrix: Soil

Collection Date: 9/14/2021
Receipt Date: 9/14/2021

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		90

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.992	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.992	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.992	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.992	mg/kg	0.0022	ND
1,1-Dichloroethane	0.992	mg/kg	0.0022	ND
1,1-Dichloroethene	0.992	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.992	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.992	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.992	mg/kg	0.0022	ND
1,2-Dibromoethane	0.992	mg/kg	0.00055	ND
1,2-Dichlorobenzene	0.992	mg/kg	0.0022	ND
1,2-Dichloroethane	0.992	mg/kg	0.0022	ND
1,2-Dichloropropane	0.992	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.992	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.992	mg/kg	0.0022	ND
1,4-Dioxane	0.992	mg/kg	0.11	ND
2-Butanone	0.992	mg/kg	0.0022	ND
2-Hexanone	0.992	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.992	mg/kg	0.0022	ND
Acetone	0.992	mg/kg	0.011	ND
Benzene	0.992	mg/kg	0.0011	ND
Bromochloromethane	0.992	mg/kg	0.0022	ND
Bromodichloromethane	0.992	mg/kg	0.0022	ND
Bromoform	0.992	mg/kg	0.0022	ND
Bromomethane	0.992	mg/kg	0.0022	ND
Carbon disulfide	0.992	mg/kg	0.0037	ND
Carbon tetrachloride	0.992	mg/kg	0.0022	ND
Chlorobenzene	0.992	mg/kg	0.0022	ND
Chloroethane	0.992	mg/kg	0.0022	ND
Chloroform	0.992	mg/kg	0.0022	ND
Chloromethane	0.992	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.992	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.992	mg/kg	0.0022	ND
Cyclohexane	0.992	mg/kg	0.0022	ND
Dibromochloromethane	0.992	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.992	mg/kg	0.0022	ND
Ethylbenzene	0.992	mg/kg	0.0011	ND
Isopropylbenzene	0.992	mg/kg	0.0011	ND
m&p-Xylenes	0.992	mg/kg	0.0013	ND
Methyl Acetate	0.992	mg/kg	0.0022	ND
Methylcyclohexane	0.992	mg/kg	0.0022	ND
Methylene chloride	0.992	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.992	mg/kg	0.0011	ND
o-Xylene	0.992	mg/kg	0.0011	ND
Styrene	0.992	mg/kg	0.0022	ND
Tetrachloroethene	0.992	mg/kg	0.0022	ND
Toluene	0.992	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.992	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.992	mg/kg	0.0022	ND
Trichloroethene	0.992	mg/kg	0.0022	ND
Trichlorofluoromethane	0.992	mg/kg	0.0022	ND
Vinyl chloride	0.992	mg/kg	0.0022	ND
Xylenes (Total)	0.992	mg/kg	0.0011	ND

Sample ID: SB02 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-004 | **Receipt Date: 9/14/2021**
Matrix: Soil

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**83**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	99	mg/kg	30	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	23.05	30	50	150	77	

Ignitability (EPA 1030)

Analyte	DF	Units	RL	Result
Burning Rate (mm/sec)	**1**			**NA**
Flame Propagation (POS/NEG)	**1**			**NEG**
Ignitability (POS/NEG)	**1**			**NEG**

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	3	mg/kg	0.12	ND
Acenaphthene	3	mg/kg	0.12	ND
Acenaphthylene	3	mg/kg	0.12	ND
Anthracene	**3**	**mg/kg**	**0.12**	**0.21**
Benzo[a]anthracene	**3**	**mg/kg**	**0.12**	**0.96**
Benzo[a]pyrene	**3**	**mg/kg**	**0.12**	**0.87**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.12**	**1.3**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.12**	**0.56**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.12**	**0.35**
Chrysene	**3**	**mg/kg**	**0.12**	**1.0**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.12**	**0.16**
Fluoranthene	**3**	**mg/kg**	**0.12**	**2.0**
Fluorene	3	mg/kg	0.12	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.12**	**0.50**
Naphthalene	3	mg/kg	0.035	ND
Phenanthrene	**3**	**mg/kg**	**0.12**	**1.2**
Pyrene	**3**	**mg/kg**	**0.12**	**1.9**

Paint Filter Test 9095B

Analyte	DF	Units	RL	Result
Paint Filter Test	**1**			**NEG**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	132.20	100	37	141	132	
TCMX-Surrogate	127.94	100	37	141	128	
DCB-Surrogate	181.47	100	34	146	181	S8
DCB-Surrogate	151.00	100	34	146	151	S8

pH 9040C/9045D

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**7.6**

Sample ID: SB02 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-004 | **Receipt Date: 9/14/2021**
Matrix: Soil

Temperature	**1**	**c**		**22.9**

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**2.4**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	**1**	**mg/l**	**0.050**	**1.6**
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**72**	**120**

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
O-Terphenyl	17.06	20	30	146	85	
Chlorobenzene	10.57	20	20	117	53	

Sample ID: SB03 GRAB
Lab#: AD25976-005
Matrix: Soil

Collection Date: 9/14/2021
Receipt Date: 9/14/2021

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		81

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0024	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0024	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0024	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0024	ND
1,1-Dichloroethane	0.986	mg/kg	0.0024	ND
1,1-Dichloroethene	0.986	mg/kg	0.0024	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0024	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0024	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0024	ND
1,2-Dibromoethane	0.986	mg/kg	0.00061	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0024	ND
1,2-Dichloroethane	0.986	mg/kg	0.0024	ND
1,2-Dichloropropane	0.986	mg/kg	0.0024	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0024	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0024	ND
1,4-Dioxane	0.986	mg/kg	0.12	ND
2-Butanone	0.986	mg/kg	0.0024	ND
2-Hexanone	0.986	mg/kg	0.0024	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0024	ND
Acetone	0.986	mg/kg	0.012	ND
Benzene	0.986	mg/kg	0.0012	ND
Bromochloromethane	0.986	mg/kg	0.0024	ND
Bromodichloromethane	0.986	mg/kg	0.0024	ND
Bromoform	0.986	mg/kg	0.0024	ND
Bromomethane	0.986	mg/kg	0.0024	ND
Carbon disulfide	0.986	mg/kg	0.0041	ND
Carbon tetrachloride	0.986	mg/kg	0.0024	ND
Chlorobenzene	0.986	mg/kg	0.0024	ND
Chloroethane	0.986	mg/kg	0.0024	ND
Chloroform	0.986	mg/kg	0.0024	ND
Chloromethane	0.986	mg/kg	0.0024	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0024	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0024	ND
Cyclohexane	0.986	mg/kg	0.0024	ND
Dibromochloromethane	0.986	mg/kg	0.0024	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0024	ND
Ethylbenzene	0.986	mg/kg	0.0012	ND
Isopropylbenzene	0.986	mg/kg	0.0012	ND
m&p-Xylenes	0.986	mg/kg	0.0015	ND
Methyl Acetate	0.986	mg/kg	0.0024	ND
Methylcyclohexane	0.986	mg/kg	0.0024	ND
Methylene chloride	0.986	mg/kg	0.0024	ND
Methyl-t-butyl ether	0.986	mg/kg	0.0012	ND
o-Xylene	0.986	mg/kg	0.0012	ND
Styrene	0.986	mg/kg	0.0024	ND
Tetrachloroethene	0.986	mg/kg	0.0024	ND
Toluene	0.986	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0024	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0024	ND
Trichloroethene	0.986	mg/kg	0.0024	ND
Trichlorofluoromethane	0.986	mg/kg	0.0024	ND
Vinyl chloride	0.986	mg/kg	0.0024	ND
Xylenes (Total)	0.986	mg/kg	0.0012	ND

Sample ID: SB03 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-006 | **Receipt Date: 9/14/2021**
Matrix: Soil

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**80**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	99.2	mg/kg	31	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	24.63	30	50	150	82	

Ignitability (EPA 1030)

Analyte	DF	Units	RL	Result
Burning Rate (mm/sec)	**1**			**NA**
Flame Propagation (POS/NEG)	**1**			**NEG**
Ignitability (POS/NEG)	**1**			**NEG**

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	3	mg/kg	0.12	ND
Acenaphthene	3	mg/kg	0.12	ND
Acenaphthylene	3	mg/kg	0.12	ND
Anthracene	3	mg/kg	0.12	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.12**	**0.17**
Benzo[a]pyrene	**3**	**mg/kg**	**0.12**	**0.15**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.12**	**0.24**
Benzo[g,h,i]perylene	3	mg/kg	0.12	ND
Benzo[k]fluoranthene	3	mg/kg	0.12	ND
Chrysene	**3**	**mg/kg**	**0.12**	**0.18**
Dibenzo[a,h]anthracene	3	mg/kg	0.12	ND
Fluoranthene	**3**	**mg/kg**	**0.12**	**0.28**
Fluorene	3	mg/kg	0.12	ND
Indeno[1,2,3-cd]pyrene	3	mg/kg	0.12	ND
Naphthalene	3	mg/kg	0.036	ND
Phenanthrene	3	mg/kg	0.12	ND
Pyrene	**3**	**mg/kg**	**0.12**	**0.28**

Paint Filter Test 9095B

Analyte	DF	Units	RL	Result
Paint Filter Test	**1**			**NEG**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	111.40	100	37	141	111	
TCMX-Surrogate	95.52	100	37	141	96	
DCB-Surrogate	114.36	100	34	146	114	
DCB-Surrogate	88.23	100	34	146	88	

pH 9040C/9045D

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**7.8**

Sample ID: SB03 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-006 | **Receipt Date: 9/14/2021**
Matrix: Soil

Temperature	**1**	**c**		**22.9**

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**2.0**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	**2**	**mg/l**	**0.10**	**16**
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	75	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
O-Terphenyl	13.01	20	30	146	65	
Chlorobenzene	9.78	20	20	117	49	

Sample ID: SB04 GRAB | **Collection Date: 9/14/2021**
Lab#: AD25976-007 | **Receipt Date: 9/14/2021**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**80**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	139.12	100	37	141	139	
TCMX-Surrogate	113.80	100	37	141	114	
DCB-Surrogate	130.20	100	34	146	130	
DCB-Surrogate	101.08	100	34	146	101	

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.042	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.042	ND
1,4-Dioxane	1	mg/kg	0.021	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.042	ND
2,4,5-Trichlorophenol	1	mg/kg	0.042	ND
2,4,6-Trichlorophenol	1	mg/kg	0.042	ND
2,4-Dichlorophenol	1	mg/kg	0.016	ND
2,4-Dimethylphenol	1	mg/kg	0.020	ND
2,4-Dinitrophenol	1	mg/kg	0.21	ND
2,4-Dinitrotoluene	1	mg/kg	0.042	ND
2,6-Dinitrotoluene	1	mg/kg	0.042	ND
2-Chloronaphthalene	1	mg/kg	0.042	ND
2-Chlorophenol	1	mg/kg	0.042	ND
2-Methylnaphthalene	1	mg/kg	0.042	ND
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.042	ND
2-Nitrophenol	1	mg/kg	0.042	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	**1**	**mg/kg**	**0.042**	**0.82**
3-Nitroaniline	**1**	**mg/kg**	**0.042**	**0.79**
4,6-Dinitro-2-methylphenol	1	mg/kg	0.15	ND
4-Bromophenyl-phenylether	1	mg/kg	0.042	ND
4-Chloro-3-methylphenol	1	mg/kg	0.042	ND
4-Chloroaniline	**1**	**mg/kg**	**0.018**	**0.69**
4-Chlorophenyl-phenylether	1	mg/kg	0.042	ND
4-Nitroaniline	**1**	**mg/kg**	**0.042**	**0.32**
4-Nitrophenol	1	mg/kg	0.042	ND
Acenaphthene	1	mg/kg	0.042	ND
Acenaphthylene	1	mg/kg	0.042	ND
Acetophenone	1	mg/kg	0.042	ND
Anthracene	1	mg/kg	0.042	ND
Atrazine	1	mg/kg	0.042	ND
Benzaldehyde	1	mg/kg	0.45	ND
Benzo[a]anthracene	1	mg/kg	0.042	ND
Benzo[a]pyrene	1	mg/kg	0.042	ND
Benzo[b]fluoranthene	1	mg/kg	0.042	ND
Benzo[g,h,i]perylene	1	mg/kg	0.042	ND
Benzo[k]fluoranthene	1	mg/kg	0.042	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.042	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.010	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.042	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.042	ND
Butylbenzylphthalate	1	mg/kg	0.042	ND

Sample ID: SB04 GRAB **Collection Date: 9/14/2021**
Lab#: AD25976-007 **Receipt Date: 9/14/2021**
Matrix: Soil

Caprolactam	1	mg/kg	0.042	ND
Carbazole	1	mg/kg	0.042	ND
Chrysene	1	mg/kg	0.042	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.042	ND
Dibenzofuran	1	mg/kg	0.011	ND
Diethylphthalate	1	mg/kg	0.042	ND
Dimethylphthalate	1	mg/kg	0.042	ND
Di-n-butylphthalate	1	mg/kg	0.048	ND
Di-n-octylphthalate	1	mg/kg	0.042	ND
Fluoranthene	1	mg/kg	0.042	ND
Fluorene	1	mg/kg	0.042	ND
Hexachlorobenzene	1	mg/kg	0.042	ND
Hexachlorobutadiene	1	mg/kg	0.042	ND
Hexachlorocyclopentadiene	1	mg/kg	0.14	ND
Hexachloroethane	1	mg/kg	0.042	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.042	ND
Isophorone	1	mg/kg	0.042	ND
Naphthalene	1	mg/kg	0.012	ND
Nitrobenzene	1	mg/kg	0.042	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.016	ND
N-Nitrosodiphenylamine	1	mg/kg	0.14	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	1	mg/kg	0.042	ND
Phenol	1	mg/kg	0.042	ND
Pyrene	1	mg/kg	0.042	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0025	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0025	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0025	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0025	ND
1,1-Dichloroethane	0.986	mg/kg	0.0025	ND
1,1-Dichloroethene	0.986	mg/kg	0.0025	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0025	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0025	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0025	ND
1,2-Dibromoethane	0.986	mg/kg	0.00062	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0025	ND
1,2-Dichloroethane	0.986	mg/kg	0.0025	ND
1,2-Dichloropropane	0.986	mg/kg	0.0025	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0025	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0025	ND
1,4-Dioxane	0.986	mg/kg	0.12	ND
2-Butanone	0.986	mg/kg	0.0025	ND
2-Hexanone	0.986	mg/kg	0.0025	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0025	ND
Acetone	0.986	mg/kg	0.012	ND
Benzene	0.986	mg/kg	0.0012	ND
Bromochloromethane	0.986	mg/kg	0.0025	ND
Bromodichloromethane	0.986	mg/kg	0.0025	ND
Bromoform	0.986	mg/kg	0.0025	ND
Bromomethane	0.986	mg/kg	0.0025	ND
Carbon disulfide	0.986	mg/kg	0.0042	ND
Carbon tetrachloride	0.986	mg/kg	0.0025	ND
Chlorobenzene	0.986	mg/kg	0.0025	ND
Chloroethane	0.986	mg/kg	0.0025	ND
Chloroform	0.986	mg/kg	0.0025	ND
Chloromethane	0.986	mg/kg	0.0025	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0025	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0025	ND
Cyclohexane	0.986	mg/kg	0.0025	ND
Dibromochloromethane	0.986	mg/kg	0.0025	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0025	ND
Ethylbenzene	0.986	mg/kg	0.0012	ND
Isopropylbenzene	0.986	mg/kg	0.0012	ND
m&p-Xylenes	0.986	mg/kg	0.0015	ND
Methyl Acetate	0.986	mg/kg	0.0025	ND
Methylcyclohexane	0.986	mg/kg	0.0025	ND

Sample ID: SB04 GRAB **Collection Date: 9/14/2021**
Lab#: AD25976-007 **Receipt Date: 9/14/2021**
Matrix: Soil

Methylene chloride	0.986	mg/kg	0.0025	ND
Methyl-t-butyl ether	0.986	mg/kg	0.0012	ND
o-Xylene	0.986	mg/kg	0.0012	ND
Styrene	0.986	mg/kg	0.0025	ND
Tetrachloroethene	0.986	mg/kg	0.0025	ND
Toluene	0.986	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0025	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0025	ND
Trichloroethene	0.986	mg/kg	0.0025	ND
Trichlorofluoromethane	0.986	mg/kg	0.0025	ND
Vinyl chloride	0.986	mg/kg	0.0025	ND
Xylenes (Total)	0.986	mg/kg	0.0012	ND

Sample ID: SB04 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-008 | **Receipt Date: 9/14/2021**
Matrix: Soil

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**84**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	98.2	mg/kg	29	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	27.59	30	50	150	92	

Ignitability (EPA 1030)

Analyte	DF	Units	RL	Result
Burning Rate (mm/sec)	**1**			**NA**
Flame Propagation (POS/NEG)	**1**			**NEG**
Ignitability (POS/NEG)	**1**			**NEG**

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	3	mg/kg	0.12	ND
Acenaphthene	3	mg/kg	0.12	ND
Acenaphthylene	3	mg/kg	0.12	ND
Anthracene	3	mg/kg	0.12	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.12**	**0.13**
Benzo[a]pyrene	**3**	**mg/kg**	**0.12**	**0.12**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.12**	**0.20**
Benzo[g,h,i]perylene	3	mg/kg	0.12	ND
Benzo[k]fluoranthene	3	mg/kg	0.12	ND
Chrysene	3	mg/kg	0.12	ND
Dibenzo[a,h]anthracene	3	mg/kg	0.12	ND
Fluoranthene	**3**	**mg/kg**	**0.12**	**0.22**
Fluorene	3	mg/kg	0.12	ND
Indeno[1,2,3-cd]pyrene	3	mg/kg	0.12	ND
Naphthalene	3	mg/kg	0.034	ND
Phenanthrene	3	mg/kg	0.12	ND
Pyrene	**3**	**mg/kg**	**0.12**	**0.22**

Paint Filter Test 9095B

Analyte	DF	Units	RL	Result
Paint Filter Test	**1**			**NEG**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	111.05	100	37	141	111	
TCMX-Surrogate	95.61	100	37	141	96	
DCB-Surrogate	110.81	100	34	146	111	
DCB-Surrogate	87.11	100	34	146	87	

pH 9040C/9045D

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**6.8**

Sample ID: SB04 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-008 | **Receipt Date: 9/14/2021**
Matrix: Soil

Temperature	**1**	**c**		**22.9**

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**1.3**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	**1**	**mg/l**	**0.050**	**0.40**
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	71	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
O-Terphenyl	17.37	20	30	146	87	
Chlorobenzene	13.48	20	20	117	67	

Sample ID: SB05 GRAB | **Collection Date: 9/14/2021**
Lab#: AD25976-009 | **Receipt Date: 9/14/2021**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		84

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	95.72	100	37	141	96	
TCMX-Surrogate	83.19	100	37	141	83	
DCB-Surrogate	90.66	100	34	146	91	
DCB-Surrogate	76.46	100	34	146	76	

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
1,4-Dioxane	1	mg/kg	0.020	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND
2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	1	mg/kg	0.040	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.14	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND
4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Acetophenone	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Atrazine	1	mg/kg	0.040	ND
Benzaldehyde	1	mg/kg	0.43	ND
Benzo[a]anthracene	1	mg/kg	0.040	ND
Benzo[a]pyrene	1	mg/kg	0.040	ND
Benzo[b]fluoranthene	1	mg/kg	0.040	ND
Benzo[g,h,i]perylene	1	mg/kg	0.040	ND
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0099	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.040	ND
Butylbenzylphthalate	1	mg/kg	0.040	ND

Caprolactam	1	mg/kg	0.040	ND
Carbazole	1	mg/kg	0.040	ND
Chrysene	1	mg/kg	0.040	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Dibenzofuran	1	mg/kg	0.010	ND
Diethylphthalate	1	mg/kg	0.040	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.046	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND
Fluoranthene	1	mg/kg	0.040	ND
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	ND
Isophorone	1	mg/kg	0.040	ND
Naphthalene	1	mg/kg	0.011	ND
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.015	ND
N-Nitrosodiphenylamine	1	mg/kg	0.13	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	1	mg/kg	0.040	ND
Phenol	1	mg/kg	0.040	ND
Pyrene	1	mg/kg	0.040	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.99	mg/kg	0.0024	ND
1,1,2,2-Tetrachloroethane	0.99	mg/kg	0.0024	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.99	mg/kg	0.0024	ND
1,1,2-Trichloroethane	0.99	mg/kg	0.0024	ND
1,1-Dichloroethane	0.99	mg/kg	0.0024	ND
1,1-Dichloroethene	0.99	mg/kg	0.0024	ND
1,2,3-Trichlorobenzene	0.99	mg/kg	0.0024	ND
1,2,4-Trichlorobenzene	0.99	mg/kg	0.0024	ND
1,2-Dibromo-3-chloropropane	0.99	mg/kg	0.0024	ND
1,2-Dibromoethane	0.99	mg/kg	0.00059	ND
1,2-Dichlorobenzene	0.99	mg/kg	0.0024	ND
1,2-Dichloroethane	0.99	mg/kg	0.0024	ND
1,2-Dichloropropane	0.99	mg/kg	0.0024	ND
1,3-Dichlorobenzene	0.99	mg/kg	0.0024	ND
1,4-Dichlorobenzene	0.99	mg/kg	0.0024	ND
1,4-Dioxane	0.99	mg/kg	0.12	ND
2-Butanone	0.99	mg/kg	0.0024	ND
2-Hexanone	0.99	mg/kg	0.0024	ND
4-Methyl-2-pentanone	0.99	mg/kg	0.0024	ND
Acetone	0.99	mg/kg	0.012	ND
Benzene	0.99	mg/kg	0.0012	ND
Bromochloromethane	0.99	mg/kg	0.0024	ND
Bromodichloromethane	0.99	mg/kg	0.0024	ND
Bromoform	0.99	mg/kg	0.0024	ND
Bromomethane	0.99	mg/kg	0.0024	ND
Carbon disulfide	0.99	mg/kg	0.0040	ND
Carbon tetrachloride	0.99	mg/kg	0.0024	ND
Chlorobenzene	0.99	mg/kg	0.0024	ND
Chloroethane	0.99	mg/kg	0.0024	ND
Chloroform	0.99	mg/kg	0.0024	ND
Chloromethane	0.99	mg/kg	0.0024	ND
cis-1,2-Dichloroethene	0.99	mg/kg	0.0024	ND
cis-1,3-Dichloropropene	0.99	mg/kg	0.0024	ND
Cyclohexane	0.99	mg/kg	0.0024	ND
Dibromochloromethane	0.99	mg/kg	0.0024	ND
Dichlorodifluoromethane	0.99	mg/kg	0.0024	ND
Ethylbenzene	0.99	mg/kg	0.0012	ND
Isopropylbenzene	0.99	mg/kg	0.0012	ND
m&p-Xylenes	0.99	mg/kg	0.0014	ND
Methyl Acetate	0.99	mg/kg	0.0024	ND
Methylcyclohexane	0.99	mg/kg	0.0024	ND

Sample ID: SB05 GRAB **Collection Date: 9/14/2021**
Lab#: AD25976-009 **Receipt Date: 9/14/2021**
Matrix: Soil

Methylene chloride	0.99	mg/kg	0.0024	ND
Methyl-t-butyl ether	0.99	mg/kg	0.0012	ND
o-Xylene	0.99	mg/kg	0.0012	ND
Styrene	0.99	mg/kg	0.0024	ND
Tetrachloroethene	0.99	mg/kg	0.0024	ND
Toluene	0.99	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.99	mg/kg	0.0024	ND
trans-1,3-Dichloropropene	0.99	mg/kg	0.0024	ND
Trichloroethene	0.99	mg/kg	0.0024	ND
Trichlorofluoromethane	0.99	mg/kg	0.0024	ND
Vinyl chloride	0.99	mg/kg	0.0024	ND
Xylenes (Total)	0.99	mg/kg	0.0012	ND

Sample ID: SB05 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-010 | **Receipt Date: 9/14/2021**
Matrix: Soil

%Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	**1**	**percent**		**80**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	98.4	mg/kg	31	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
1,4-Dichlorobenzene-d4	23.64	30	50	150	79	

Ignitability (EPA 1030)

Analyte	DF	Units	RL	Result
Burning Rate (mm/sec)	**1**			**NA**
Flame Propagation (POS/NEG)	**1**			**NEG**
Ignitability (POS/NEG)	**1**			**NEG**

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.042	ND
Acenaphthene	1	mg/kg	0.042	ND
Acenaphthylene	1	mg/kg	0.042	ND
Anthracene	1	mg/kg	0.042	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.042**	**0.055**
Benzo[a]pyrene	**1**	**mg/kg**	**0.042**	**0.061**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.042**	**0.088**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.042**	**0.056**
Benzo[k]fluoranthene	1	mg/kg	0.042	ND
Chrysene	**1**	**mg/kg**	**0.042**	**0.061**
Dibenzo[a,h]anthracene	1	mg/kg	0.042	ND
Fluoranthene	**1**	**mg/kg**	**0.042**	**0.081**
Fluorene	1	mg/kg	0.042	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.042	ND
Naphthalene	1	mg/kg	0.012	ND
Phenanthrene	1	mg/kg	0.042	ND
Pyrene	**1**	**mg/kg**	**0.042**	**0.091**

Paint Filter Test 9095B

Analyte	DF	Units	RL	Result
Paint Filter Test	**1**			**NEG**

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	109.17	100	37	141	109	
TCMX-Surrogate	95.24	100	37	141	95	
DCB-Surrogate	103.24	100	34	146	103	
DCB-Surrogate	84.95	100	34	146	85	

pH 9040C/9045D

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**7.4**

Sample ID: SB05 COMP | **Collection Date: 9/14/2021**
Lab#: AD25976-010 | **Receipt Date: 9/14/2021**
Matrix: Soil

Temperature	**1**	**c**		**22.7**

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**0.29**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	**1**	**mg/l**	**0.050**	**0.11**
Nickel	1	mg/l	0.10	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	75	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
O-Terphenyl	14.50	20	30	146	72	
Chlorobenzene	10.25	20	20	117	51	

Sample ID: SB04 GW | **Collection Date: 9/14/2021**
Lab#: AD25976-011 | **Receipt Date: 9/14/2021**
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	89.25	100	39	132	89	
TCMX-Surrogate	75.29	100	39	132	75	
DCB-Surrogate	98.31	100	39	142	98	
DCB-Surrogate	82.02	100	39	142	82	

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
1,4-Dioxane	1	ug/l	0.50	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	1	ug/l	0.55	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	8.1	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND

Sample ID: SB04 GW **Collection Date: 9/14/2021**
Lab#: AD25976-011 **Receipt Date: 9/14/2021**
Matrix: Aqueous

Dibenzofuran	1	ug/l	0.68	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	1.1	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.64	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	7.6	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.64	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	2.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND

Sample ID: SB04 GW | **Collection Date: 9/14/2021**
Lab#: AD25976-011 | **Receipt Date: 9/14/2021**
Matrix: Aqueous

Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Hampton-Clarke, Inc. (WBE/DBE/SBE)
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Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

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WBE/DBE/SBE 800-426-9992
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CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1091507

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: Louis Berger
Address: 96 Morton St. 8th Floor, New York, NY 10014
1b) Email/Cell/Fax/Ph: Jon.Ganz@wsp.com
1c) Send Invoice to: Jonathan Ganz
1d) Send Report to: Jonathan Ganz

Project Information

2a) Project: Jamaica Bay
2b) Project Mgr: Jonathan Ganz
2c) Project Location (City/State): Brooklyn, NY
2d) Quote/PO # (If Applicable): 31402661.080

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: 5day TAT		Other: ________

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓
Batch #: AD25974

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (*specify methods & parameter lists*)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL VOCs	TCL SVOCs	PCBs (8082)	PAHs (8270C)	TPH DRO/GRO (8015B)	PCBs (8082A/608)	TCLP Metals (RCRA8) (1311/6010B)	RCRA character (9012B/9031, 1030/1010A)	Paint Filter Test (9095B)			8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB01	S	09/14/21	11:25		X	X											1								
002	SB01	↓	↓	11:25	X					X	X	X	X	X	X			1								
003	SB02			10:25		X	X											1								
004	SB02			10:25	X					X	X	X	X	X	X			1								
005	SB03			09:30		X	X											1								
006	SB03			09:30	X					X	X	X	X	X	X			1								
007	SB04			13:45		X	X	X	X									3								
008	SB04			13:45	X					X	X	X	X	X	X			1								
009	SB05			13:10		X	X	X	X									3								
010	SB05			13:10	X					X	X	X	X	X	X			1								

10) Relinquished by:	Accepted by:	Date	Time
Harry August	[signature]	9/14/21	17:55

11) Sampler (print name): Harry August Date: 9/14/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.7°C

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

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NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke
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CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 109507

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: 5day TAT		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Louis Berger
Address: 96 Morton St. 9th Floor
NYC, New York 10014
1b) Email/Cell/Fax/Ph: Jon.Ganz@wsp.com
1c) Send Invoice to: Jonathan Ganz
1d) Send Report to: Jonathan Ganz

Project Information

2a) Project: Jamaica Bay
2b) Project Mgr: Jonathan Ganz
2c) Project Location (City/State): Brooklyn, NY
2d) Quote/PO # (If Applicable): 31402661.030

FOR LAB USE ONLY ↓

Batch # AD56976

===> Check if Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs (8260C)	TCL SVOCs (8270)	PCBs (8082)	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB04	GW	09/14/21	14:30		X	X	X	X	4				3				

10) Relinquished by:

Relinquished by:	Accepted by:	Date	Time
Harry August		9/14/21	17:56

11) Sampler (print name): Harry August Date: 9/14/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

Hampton-Clarke Report Of Analysis

Client: WSP USA, Inc.
Project: Jamaica Bay

HC Project #: 1091418

Sample ID: SB O4
Lab#: AD25967-001
Matrix: Aqueous

Collection Date: 9/14/2021
Receipt Date: 9/14/2021

Carbonaceous BOD-5 Day (SM5210 B-11)

Analyte	DF	Units	RL	Result
Carbonaceous Bod, 5 Day	1	mg/l	2.0	ND

Chloride (Water) 300.0

Analyte	DF	Units	RL	Result
Chloride	**20**	**mg/l**	**40**	**590**

Cr (Hexavalent) 3500-Cr B11

Analyte	DF	Units	RL	Result
Cr (Hexavalent)	1	mg/l	0.020	ND

Flash Point 1010A

Analyte	DF	Units	RL	Result
Flash Point	**1**	**deg. f**		**>141**

Mercury (Water) 245.1

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.20	ND

Metals-Three 200.7

Analyte	DF	Units	RL	Result
Copper	1	ug/l	25	ND
Nickel	1	ug/l	10	ND
Zinc	**1**	**ug/l**	**25**	**190**

Metals-Two 200.8

Analyte	DF	Units	RL	Result
Cadmium	1	ug/l	1.0	ND
Lead	**1**	**ug/l**	**0.75**	**7.6**

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Nitrite-N (Aqueous) 300.0

Analyte	DF	Units	RL	Result
Nitrite	1	mg/l	1.0	ND

PCB 608.3

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.250	ND
Aroclor-1016	1	ug/l	0.250	ND
Aroclor-1221	1	ug/l	0.250	ND
Aroclor-1232	1	ug/l	0.250	ND
Aroclor-1242	1	ug/l	0.250	ND
Aroclor-1248	1	ug/l	0.250	ND
Aroclor-1254	1	ug/l	0.250	ND
Aroclor-1260	1	ug/l	0.250	ND
Aroclor-1262	1	ug/l	0.250	ND
Aroclor-1268	1	ug/l	0.250	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	62.08	100	39	132	62	
TCMX-Surrogate	60.02	100	39	132	60	
DCB-Surrogate	80.98	100	39	142	81	
DCB-Surrogate	60.77	100	39	142	61	

Sample ID: SB O4 | **Collection Date: 9/14/2021**
Lab#: AD25967-001 | **Receipt Date: 9/14/2021**
Matrix: Aqueous

pH (SM4500-H+ B-11)

Analyte	DF	Units	RL	Result
pH	**1**	**ph**		**8.1**
Temperature	**1**	**c**		**24.4**

Semivolatile Organics (no search) 625.1

Analyte	DF	Units	RL	Result
1,2,4-Trichlorobenzene	1	ug/l	2.00	ND
Naphthalene	1	ug/l	0.500	ND
Phenol	1	ug/l	2.00	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Terphenyl-d14	65.85	50	55	146	132	
Phenol-d5	45.65	100	27	115	46	
Nitrobenzene-d5	54.13	50	51	139	108	
2-Fluorophenol	63.20	100	29	113	63	
2-Fluorobiphenyl	52.80	50	53	129	106	
2,4,6-Tribromophenol	106.87	100	54	149	107	

SGT-HEM (Non-Polar Material) 1664B

Analyte	DF	Units	RL	Result
SGT-HEM (Non-Polar Material)	1	mg/l	6.1	ND

Total Solids (SM2540B-11)

Analyte	DF	Units	RL	Result
Total Solids @ 103-105 C	**1**	**mg/l**	**40**	**1300**

Total Suspended Solids (SM2540D-11)

Analyte	DF	Units	RL	Result
Total Suspended Solids @ 103-105 C	**1**	**mg/l**	**4.0**	**81**

Volatile Organics (no search) 624.1

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.00	ND
1,4-Dichlorobenzene	1	ug/l	1.00	ND
Benzene	1	ug/l	0.500	ND
Carbon tetrachloride	1	ug/l	1.00	ND
Chloroform	1	ug/l	1.96	ND
Ethylbenzene	1	ug/l	1.00	ND
m&p-Xylenes	1	ug/l	1.00	ND
Methyl-t-butyl ether	1	ug/l	0.500	ND
o-Xylene	1	ug/l	1.00	ND
Tetrachloroethene	1	ug/l	1.00	ND
Toluene	1	ug/l	1.00	ND
Xylenes (Total)	1	ug/l	1.00	ND

Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
Toluene-d8	28.71	30	79	111	96	
Dibromofluoromethane	32.96	30	73	131	110	
Bromofluorobenzene	29.60	30	82	112	99	
1,2-Dichloroethane-d4	35.84	30	78	128	119	

Hampton-Clarke, Inc. (WBE/DBE/SBE)

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CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1091718

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: 5 day TAT		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Louis Berger
Address: 96 Morton St, 9th Floor
New York, NY, 10014
1b) Email/Cell/Fax/Ph: Jon.Ganz@wsp.com
1c) Send Invoice to: Jonathan Ganz
1d) Send Report to: Jonathan Ganz

Project Information

2a) Project: Jamaica Bay
2b) Project Mgr: Jonathan Ganz
2c) Project Location (City/State): Brooklyn, NY, NY
2d) Quote/PO # (If Applicable): 31402661.080

FOR LAB USE ONLY ↓

Batch # A25967

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	NYCDEP Effluent Parameters	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB 04	GW	9/14/21	14:30		X	X	10				5	1	1		

10) Relinquished by:	Accepted by:	Date	Time
Harry August		9/14/21	17:56

11) Sampler (print name): Harry August Date: 9/14/21

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 5.0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Sample Summary

Hampton Clarke-Veritech

Job No: JD31661

Project # 1091418
Project No: Project#1091418 COCID#7409

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD31661-1	09/14/21	14:30		09/16/21	AQ	Water	AD25967-001 SB O4

Report of Analysis

Client Sample ID:	AD25967-001 SB O4		
Lab Sample ID:	JD31661-1	**Date Sampled:**	09/14/21
Matrix:	AQ - Water	**Date Received:**	09/16/21
		Percent Solids:	n/a
Project:	Project # 1091418		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Total Kjeldahl	0.45	0.20	mg/l	1	09/20/21 11:32	EB	EPA 351.2/LACHAT

RL = Reporting Limit

AG

CHAIN OF CUSTODY RECORD

JD 31661

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:	Invoice To:	Project #:	CocID#:
Hampton-Clarke, Inc.: Attn:Reporting 175 Route 46 West Fairfield, New Jersey 07004	Hampton-Clarke, Inc.: Attn:Accounting 175 Route 46 West Fairfield, New Jersey 07004	1091418	7409

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 9/30/2021
Report Type: NYDOH-CatA (STAND **Hard Copy Due Date:** 10/7/2021

G21

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested
AD25967-001	SB O4	Aqueous	9/14/2021	2:30:00 PM	TKN EPA 351.2

Initial Assessment DRFT
Label Verification

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
John Bunnell	Kurt Marsh	9/16/21	12:15	MK 09/15/21
				Cooler Temp: 2.3 C FP

HC Lab Use Only: **Subcontracted Lab Id and Contact:** Sample Receiving, (732) 329-0200, LabID: H, Fresh Ponds Corporate Village, Bldg. B, 2235 Route 130, Dayton, NJ, 08810

SGS Sample Receipt Summary

Job Number: JD31661 **Client:** HAMPTON CLARKE INC **Project:** PROJECT #1091418

Date / Time Received: 9/16/2021 12:15:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD31661: Chain of Custody
Page 2 of 2