
REMEDIAL INVESTIGATION REPORT

for

THIRD STREET GOWANUS
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346

Prepared For:

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c/o Orange Management Inc
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LANGAN

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LIST OF ACRONYMS

Acronym	Definition
6 NYCRR	Title 6 of the New York Codes, Rules and Regulations
AOC	Area of Concern
AGV	Air Guideline Values
Alpha	Alpha Analytical Laboratories Inc.
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
bgs	Below Grade Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
CAMP	Community Air Monitoring Plan
CEQR	City Environmental Quality Review
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
COC	Contaminant of Concern
CORRACTS	RCRA Corrective Action Reports
CSM	Conceptual Site Model
CVOC	Chlorinated Volatile Organic Compound
DER	Division of Environmental Remediation
DER-10	NYSDEC DER Program Policy: Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
Eastern	Eastern Environmental Services Corp.
EIMS	Environmental Information Management System
el	Elevation
ELAP	Environmental Laboratory Approval Program
EM	Electromagnetic
ESA	Environmental Site Assessment
eV	Electron volt
FEMA	Federal Emergency Management Agency
FWRIA	Fish and Wildlife Resources Impact Analysis
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
IDW	Investigation-Derived Waste
Langan	Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

Acronym	Definition
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NAVD88	North American Vertical Datum of 1988
ng/L	Nanograms per Liter
NOVA	NOVA Geophysical Engineering
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
p/o	Part of
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PFIRM	Preliminary Flood Insurance Rate Map
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PGW	Protection of Groundwater
PID	Photoionization Detector
PPE	Personal Protective Equipment
ppm	Parts per Million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RURR	Restricted Use Restricted-Residential
SCO	Soil Cleanup Objective
SGV	NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda
The site	125 3 rd Street in Brooklyn, New York
SMMP	Soil/Materials and Management Plan
SOR	Site Observation Report
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethene

Acronym	Definition
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TOV	Total Organic Vapor
ULURP	Uniform Land Use Review Procedure
UN/DOT	United Nations/Department of Transportation
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
UU	Unrestricted Use
VOC	Volatile Organic Compound
Volunteer	Third Street Gowanus Owner LLC
µg/L	Microgram per Liter
µg/m ³	Microgram per Cubic Meter
µm	Micrometer

CERTIFICATION

I, Jason J. Hayes, certify that I am currently a Qualified Environmental Professional as defined in 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).



Jason J. Hayes, P.E., LEED AP

1.0 INTRODUCTION

This Remedial Investigation Report (RIR) was prepared on behalf of Third Street Gowanus Owner LLC (the Volunteer) for 125 3rd Street in Brooklyn, New York (the site). The Volunteer was accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) to investigate and remediate the site pursuant to the NYSDEC Brownfield Cleanup Agreement (BCA) executed on 22 March 2022. BCP Site No. C224346 was assigned to the site.

This RIR presents environmental data and findings from a remedial investigation (RI) implemented by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) from 9 November to 22 November, and on 15 December, 2022. The RI was conducted in accordance with the NYSDEC-approved 3 June 2022 Remedial Investigation Work Plan (RIWP) prepared by Langan (Appendix A); Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375-1 and -3.8 (Part 375); NYSDEC DER Program Policy: Technical Guidance for Site Investigation and Remediation (DER-10); NYSDEC Part 375 Remedial Programs Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) (November 2022) (herein referred to as PFAS Guidance); and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) and subsequent updates (2017) (herein referred to as NYSDOH Guidance for Evaluating Soil Vapor Intrusion). The objectives and goals of the RI were to:

- Investigate and characterize the nature and extent of contamination at the site
- Evaluate whether contamination is emanating from the site
- Generate sufficient data to evaluate remedial action alternatives and prepare a Remedial Action Work Plan (RAWP) to be implemented concurrently with site redevelopment
- Generate sufficient data to evaluate the actual and potential threats to human health and the environment for site contaminants

The remainder of the RIR is organized as follows:

- Section 2.0 describes the site setting and physical characteristics
- Section 3.0 describes the site background including results of previous investigations and identified areas of concern (AOC)
- Section 4.0 presents the field investigation procedures
- Section 5.0 describes the field observations and analytical results
- Section 6.0 presents an assessment of the exposure risks of site contaminants to human, fish, and wildlife receptors

- Section 7.0 presents the nature and extent of contamination in sampled media as determined through the field investigation and analysis of environmental samples
- Section 8.0 summarizes the results of the investigation and presents conclusions based on field observations and analytical results
- Section 9.0 presents the references used in preparation of this report

2.0 SITE PHYSICAL CHARACTERISTICS

2.1 Site Description

The about 20,300-square-foot (0.47-acre) site is located at 125 3rd Street in the Gowanus neighborhood of Brooklyn, New York, and is identified as Block 462, Lot 6 (former Lots 6, 8, 42, 44 and part of [p/o] 9) on the Kings County Tax Map. A site location map is provided as Figure 1. The site is bound by 2nd Street to the north, industrial and commercial buildings followed by the Gowanus Canal to the east, 3rd Street to the south, and residential and mixed-use buildings to the west.

The site is developed with four vacant buildings. The remainder of the site is grass- or concrete-covered. The former, most-recent, uses of the structures are described below:

- One-story warehouse used as a freight hauling business with open air parking to the north and south (former Lot 6)
- One-story warehouse used as a construction services business (former Lot 8)
- Two-story warehouse occupied by a moving company (former Lot 44)
- One-story building occupied by a van rental company (former Lot 42 and p/o Lot 9)

The former Tax Lots are depicted on Figure 2. According to the New York City Planning Commission Zoning Map 16c, dated 7 December 2022, the site is in a M1-4/R7-2 district. M1 districts typically include light industrial uses, such as woodworking shops, repair shops, and wholesale service and storage facilities. Offices, hotels and most retail uses are also permitted. R7 districts are medium-density apartment house districts.

2.1.1 Description of Surrounding Properties

The site is located in a mixed-use urban area with residential, commercial, and industrial properties. A map of the surrounding land uses is provided as Figure 3. The following is a summary of surrounding property usage:

Direction	Block	Lot	Adjoining Properties	Surrounding Properties
North	2nd Street			Multiple-story industrial, commercial, and residential buildings and a public park
	458	1	Twelve-story residential building with a parking garage and ground floor commercial space (365 Bond Street / BCP Site No. C224174)	
East	462	12	One-story parking garage and parking lot (155 3rd Street / BCP Site No. C224336)	Multiple-story industrial and residential buildings and the Gowanus Canal
	462	9	Two-story industrial building (140 2nd Street)	

Direction	Block	Lot	Adjoining Properties	Surrounding Properties
South	3rd Street			Multiple-story industrial buildings and vacant land followed by the Gowanus Canal
	466	1	Vacant three-story industrial building and parking lot (130 3rd Street)	
	466	17	Vacant land (148 3rd Street)	
West	462	50	Undeveloped land (123 3rd Street)	Multiple-story commercial and residential buildings followed by Bond Street
	462	1	Commercial and office building (389 Bond Street)	
	462	5	Three-story residential building (128 2nd Street)	

Public infrastructure (storm drains, sewers, and underground utility lines) exists within the streets surrounding the site. Land use within a half-mile radius is urban and includes residential, commercial, industrial, and institutional buildings, parking lots, and public parks. The nearest ecological receptor is the Gowanus Canal located approximately 350 feet east of the site. Sensitive receptors, as defined in DER-10, located within a half mile of the site include those listed below:

Number	Name (Approximate distance from site)	Address
1	Kids World Daycare (about 0.18-mile northwest of the site)	39 2 nd Street, Brooklyn, NY 11231
2	Al Madinah School (about 0.20-mile southeast of the site)	383 3rd Avenue Brooklyn, NY 11215
3	The Little Brooklyn Pre-K Center (approximately 0.25-mile northeast of the site)	305-307 3rd Avenue Brooklyn, NY 11215
4	P.S. 032 Samuel Mills Sprole (approximately 0.25-mile northwest of the site)	317 Hoyt Street Brooklyn, NY 11231
5	Ladybug Preschool (approximately 0.25-mile southwest of the site)	413 Smith Street Brooklyn, NY 11231
6	Hannah Senesh Community Day School (approximately 0.28-mile northwest of the site)	342 Smith Street Brooklyn, NY 11231
7	Rivendell School (approximately 0.30-mile northeast of the site)	277 3rd Avenue Brooklyn, NY 11215
8	P.S. 372 – The Children’s School (approximately 0.30-mile northeast of the site)	512 Carroll Street Brooklyn, NY 11215
9	P.S. 058 The Carroll (approximately 0.35-mile northwest of the site)	330 Smith Street Brooklyn, NY 11231
10	Ladybug Family Inc. (approximately 0.35-mile southwest of the site)	468 Smith Street Brooklyn, NY 11231
11	International School of Brooklyn (approximately 0.37-mile west of the site)	477 Court Street, Brooklyn, NY 11231

Number	Name (Approximate distance from site)	Address
12	Bumble Bee Daycare (approximately 0.41-mile east of the site)	258 4 th Avenue, Brooklyn, NY 11215
13	Bambi Child Care (approximately 0.41-mile northwest of the site)	73 3 rd Place, Brooklyn, NY 11231
14	Let's Play and Learn (approximately 0.42-mile southeast of the site)	371 4 th Avenue, Brooklyn, NY 11215
15	New Dawn Charter School (approximately 0.43-mile north of the site)	242 Hoyt Street Brooklyn, NY 11217
16	Choo Choo Train Project (approximately 0.45-mile southwest of the site)	539 Court Street Brooklyn, NY 11231
17	Strong Place for Hope Day Care (approximately 0.45-mile south of the site)	333 2nd Street Brooklyn, NY 11215
18	M.S. 51 William Alexander (approximately 0.45-mile southeast of the site)	350 5th Avenue Brooklyn, NY 11215
19	P.S. 118 The Maurice Sendak Community School (approximately 0.45-mile southeast of the site)	211 8th Street Brooklyn, NY 11215
13	Metrokids Preschool (approximately 0.50-mile northwest of the site)	382 Baltic Street Brooklyn, NY 11201

2.1.2 Topography

The site topography has a slight downward gradient to the south and east and generally ranges from about elevation (el)¹ 8 in the southern part of the site to about el 11.5 in the northern part of the site (Figure 2). The top of slab of the building in the north-central part of the site (former Lot 6) is at about el 14 and the top of slab of the building in the northeastern part of the site (former Lot 8) is at about el 6. The area surrounding the site generally slopes down to the east, toward the Gowanus Canal.

2.1.3 Surface Water and Drainage

The site is improved with four one- to two-story, concrete slab-on-grade buildings. The southwestern and northern parts of the site are concrete-paved, gravel-covered or vegetated. Stormwater runoff from the existing buildings is discharged to the city sewer system. Precipitation at the site does not have the potential to infiltrate to the water table, with the exception of the gravel-covered or vegetated areas and precipitation leaking through cracks in the concrete surface cover.

According to the Federal Emergency Management Agency (FEMA) Preliminary Flood Insurance Rate Map (PFIRM) of 30 January 2015 panel number 3604970211G for New York City, N.Y), the

¹ Elevations are referenced to the North American Vertical Datum of 1988 (NAVD88)

site is located in Flood Zone AE, the site lies within the limits of Flood Hazard Zone AE which indicates areas subject to inundation by the 1 percent annual chance flood (100-year flood). The base flood elevation identified on the map is el 10± (NAVD88).

2.1.4 Wetlands

Wetlands on or near the site were evaluated by reviewing the National Wetlands Inventory and NYSDEC regulated wetlands map. There are no wetlands mapped on or adjacent to the site. The nearest mapped wetland and surface water body is the Gowanus Canal, which is located approximately 350 feet east of the site, and is classified as an E1UBLx wetland.

2.2 Geology and Hydrogeology

2.2.1 Regional and Site Geology

Soil and bedrock stratigraphy throughout Brooklyn typically consists of a layer of historic fill that overlies glacial till, alluvial and marsh deposits, which in turn, stratigraphically overlying sedimentary and metamorphic bedrock. The USGS Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey, dated 1994 indicates that the bedrock in the area is part of the Hartland Formation. The Hartland Formation is comprised of mica schist and quartz-feldspar granulite, with localized intrusions of granite and pegmatite. Based on Langan's experience at nearby properties, bedrock is expected at about 150 feet below grade surface (bgs).

Based on the Langan's previous investigations at the site and observations from the RI, site stratigraphy consists of fill underlain by native soil. Fill, predominantly consisting of dark gray to dark brown fine sand with varying proportions of silt, gravel, brick, coal, coal ash, mortar, wood construction debris, slag, concrete, glass, and ceramics, was encountered from site grade (below surface cover) to depths ranging from about 5 to 15 feet bgs. The fill layer is deeper in the northeastern, southwestern, central parts of the site (about 11 to 15 feet bgs), and shallower in the northwestern and southeastern parts of the site (about 5 to 10 feet bgs).

Fill is underlain by native soil consisting of fine to medium grained sand with varying amounts of silt and gravel. The thickness of the sand layer ranges from about 2 to 7 feet across the site. An impermeable organic clay layer with varying amounts fibrous vegetation (marsh deposits) is below the sand layer. The top of the organic clay layer was found between about 10.5 and 20 feet bgs and was about 7 to 18.5 feet thick. A layer of sand with varying amounts of silt and gravel was encountered below the clay layer. Bedrock was not encountered in the borings advanced during the RI.

2.2.2 Regional and Site Hydrogeology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers,

stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, coverage by impervious surfaces, and subsurface structures. Other factors influencing groundwater include depth to bedrock, the presence of anthropogenic fill, and variability in local geology and groundwater sources or sinks. The Brooklyn-Queens Aquifer is part of the United States Environmental Protection Agency (USEPA)-designated Sole Source Aquifer in Long Island, and has been used as a public water supply in the past, and may again in the future. Groundwater in the Gowanus section of Brooklyn is not used as a potable water source. Potable water provided to the City of New York is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

Groundwater underlying the site was observed at about 2.5 to 7 feet bgs during the RI and previous site investigations performed by Langan. Based on depth-to-water measurements collected during the RI, groundwater appears to flow north. Regional groundwater flow is expected to be to the east towards Gowanus Canal. Tidal influence, underground utilities, and other subsurface structures may locally influence the direction of groundwater flow.

3.0 SITE BACKGROUND

3.1 Environmental History

According to historical records, the site was occupied by commercial and industrial facilities since the late 1800s. The historical uses are listed below:

- Painting company (1886)
- Stone cutting facility and carpenter (1886)
- Mattress and quilt manufacturing facility (1904)
- Brewing and bottling company (1915 to 1938)
- Garage (1938 to 1950, 1977 to 2007)
- Waste paper and rag bailing company (1950)
- Freight depot (1969 to 2007)
- Unknown manufacturing (1977 to 2007)

Historical uses of adjoining and surrounding properties included a lumber yard, a brewing facility, several major oil storage facilities, a coal yard, stone cutting, an asphalt factory, paint manufacturing, blacksmiths, a trucking and parking company, automotive repair garage, truck manufacturing, a machine shop, a chemical manufacturer, an electroplating facility, a wire and cable company, a drycleaner, waste paper storage, an automotive junk yard, and various unknown manufacturing facilities.

3.2 Proposed Redevelopment Plan

The proposed redevelopment plan includes demolishing all existing structures and construction of one mixed-use building. The building will encompass about 19,500 square feet and include a concrete-paved courtyard in the west-central part of the site. The proposed building consists of a 14-story residential tower in the south-western and central part of the site, with 1-story commercial structures attached in other areas. In accordance with the zoning, the proposed development will include affordable housing and does not anticipate on-site parking.

3.3 Previous Environmental Reports

Previous environmental reports were reviewed as part of this RIR. The reports are summarized below and are included in Appendix A.

November 2021 Subsurface Investigation Report, prepared by Langan

Langan completed a subsurface investigation to 1) satisfy the forthcoming hazmat E-designation, 2) support due diligence for the proposed redevelopment, and 3) evaluate site eligibility for enrollment in the BCP. The subsurface investigation was performed in September 2021 (herein referred to as September 2021 Subsurface Investigation) and included:

- Geophysical survey to clear boring locations and identify potential underground storage tanks (UST) and other subsurface structures

- Advancement of nine soil borings, installation of three temporary monitoring wells, two permanent monitoring wells, four sub-slab soil vapor points, and three soil vapor points
- Continuous collection of soil samples to completion depths ranging from 8 to 16 feet bgs for observation of soil type and indications of contaminants via visual, olfactory, and instrumental (photoionization detector [PID]) methods
- Collection and laboratory analysis of 18 soil samples, 5 groundwater samples, and 7 soil vapor samples

Field observations and laboratory analytical results are summarized below:

- Geophysical Survey: The geophysical survey did not identify subsurface anomalies consistent with USTs.
- Soil: A fill layer consisting of varying amounts of sand, silt, gravel, coal, coal ash, slag, and wood was observed from surface grade to depths ranging from about 3 to 12 feet bgs. A layer of brown/grey medium to fine grained sand with varying amounts of silt and gravel was encountered below the fill layer. A layer of dark grey organic clay with varying amounts of organics was encountered below the upper sand layer. Evidence of petroleum impacts (at SB-05 and SB-08. At SB05, soil staining, petroleum-like odors, and elevated PID readings (maximum of 408.8 parts per million [ppm]) were observed from about 0.5 to 1 feet bgs. At SB08, soil staining, petroleum-like odors, and elevated PID readings (maximum of 217.5 ppm) were observed from 1 to 8 feet. Semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), pesticides, and metals were identified at concentrations above the 6 NYCRR Part 375 Unrestricted Use (UU) and/or Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCO). Three samples were analyzed for arsenic via Toxicity Characteristic Leaching Procedure (TCLP) because of elevated total arsenic levels. No samples were identified at concentrations above the USEPA Resource Conservation and Recovery Act (RCRA) Code of Federal Regulations (CFR) Part 261 Maximum Concentration of Contaminants for the Toxicity Characteristic.
- Groundwater: Groundwater was observed at depths ranging from about 2.5 to 7 feet bgs. Volatile organic compounds (VOC), SVOCs, and metals (total and dissolved) in groundwater exceeded the NYSDEC Title 6 NYCRR Part 703.5 and the Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA waters (herein collectively referenced as SGV).
- Soil Vapor: Petroleum-related compounds, including benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) and chlorinated VOCs were detected in soil vapor samples at concentrations above those detected in the ambient air sample. Soil vapor sample results were evaluated using the Air Guideline Values (AGV) and Decision

Matrices from the NYSDOH Guidance for Evaluating Soil Vapor Intrusion (NYSDOH Decision Matrices). Four VOCs addressed by the NYSDOH Decision Matrices, 1,1,1-trichloroethane, methylene chloride, trichloroethene (TCE), and tetrachloroethene (PCE), were detected in soil vapor samples. TCE was detected at a concentration above the minimum concentration that recommends mitigation. Indoor air samples were not collected because the existing buildings are vacant and will be demolished as part of site redevelopment.

The September 2021 Subsurface Investigation sample locations are shown on Figure 4. Sample locations and analytical results that exceed applicable regulatory criteria for soil, groundwater, and soil vapor are presented in the RIWP.

December 2021 Phase I Environmental Site Assessment, prepared by Langan

Langan completed a Phase I Environmental Site Assessment (ESA) in accordance with ASTM International (ASTM) Standard E1527-13 (Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process) and USEPA All Appropriate Inquiries (AAI) Rule. The 2021 Phase I ESA identified the following Recognized Environmental Conditions (RECs) in connection with the site:

REC 1 – Documented Contamination at the Site

A review of Sanborn Fire Insurance Maps (Sanborn Maps), city directory abstracts, local agency records, and environmental regulatory database listings identified the following historical uses of environmental significance at the site: a painting company (1886), a stone cutting facility and carpenter (1886), a mattress and quilt manufacturer (1904), a brewing a bottling company (1915 to 1938), a garage (1938 to 1950, 1977 to 2007), a waste paper and rag bailing company (1950), a freight depot (1969 to 2007), and unknown manufacturing (1977 to 2007) most likely associated with a fireproof door manufacturer. Historical uses of environmental significance at adjoining and surrounding properties included a lumber yard, a brewing facility, several major oil storage facilities, multiple coal yards, stone cutting, an asphalt factory, paint manufacturing, blacksmiths, a trucking and parking company, automotive repair garage, truck manufacturing, a machine shop, a chemical manufacturer, an electroplating facility, a wire and cable company, a drycleaner, waste paper storage, an automotive junk yard, and various unknown manufacturing facilities.

The site was not identified in the environmental regulatory database listings; however, surrounding properties were listed in numerous databases, including the RCRA Corrective Reports (CORRACTS), RCRA Generator, Brownfields, and Registered Drycleaners.

The September 2021 Subsurface Investigation identified fill that contained SVOCs, PCBs, pesticides, and metals. Arsenic and petroleum-related VOCs and SVOCs were also detected in soil and/or groundwater at concentrations exceeding applicable regulatory criteria. 1,4-Dioxane was detected in groundwater above applicable regulatory criteria. TCE was detected in soil vapor

at a concentration above the minimum concentration that recommends mitigation. The known contamination, which is most likely attributed to historical uses of the site and adjoining and surrounding properties, is considered a REC.

3.4 Areas of Concern for Investigation

Based on the site history and the findings of the previous environmental investigation, the AOCs were further investigated during the RI, and are presented on Figure 4.

3.4.1 AOC 1: Historic Fill

Fill from unknown sources, consisting of varying amounts of sand, silt, gravel, coal, coal ash, slag, and wood, was observed from surface grade to the boring termination depths between 3 and 12 feet bgs during the September 2021 Subsurface Investigation. Contaminants associated with fill material, including SVOCs, PCBs, pesticides, and metals were detected at concentrations above UU and RURR SCOs in soil samples collected from the fill layer. SVOCs and metals were also detected in groundwater at concentrations above SGVs.

3.4.2 AOC 2: Petroleum Impacts

Evidence of petroleum impacts including odors, staining, and/or elevated PID readings were observed in two soil borings (SB05 and SB08) during September 2021 Subsurface Investigation. VOCs and/or SVOCs were detected above the UU SCOs and SGVs in soil and/or groundwater samples collected from the two areas. Petroleum impacts are likely related to the historical industrial uses of the site and/or adjoining properties.

3.4.3 AOC 3: Arsenic in Soil and Groundwater

Arsenic was detected above UU and RURR SCOs and SGVs in soil and groundwater (total and dissolved) samples, respectively. Arsenic impacts may be related to coal and coal ash identified in the fill layer observed across the site, the historical use of former Lot 44 as a brewing and bottling company, and/or from the historical industrial use of adjoining and surrounding properties.

3.4.4 AOC 4: 1,4-Dioxane in Groundwater

1,4-Dioxane was detected above the SGV in groundwater samples collected at the site. However, 1,4-dioxane was not detected in soil samples collected across the site. 1,1,1-Trichloroethane, commonly associated with 1,4-dioxane, was detected in two soil samples at concentrations not indicative of source, but not in groundwater samples. 1,4-Dioxane-impacted groundwater is likely from the historical use of adjoining and surrounding properties.

4.0 REMEDIAL INVESTIGATION

The RI was implemented between 9 and 22 November 2022 to investigate and characterize the nature and extent of environmental impacts at the site, evaluate the nature of any impacts emanating from the site and provide sufficient information to evaluate remedial alternatives. The monitoring well survey and synoptic gauging event were performed on 15 December 2022.

The RI was conducted in accordance with the NYSDEC-approved 3 June 2022 RIWP prepared by Langan, 6 NYCRR Part 375, 6.8, DER-10, PFAS Guidance, and the NYSDOH Guidance for Evaluating Soil Vapor Intrusion

The RI included the following:

Geophysical Survey and Utility Location

- Completion of a One-Call utility markout prior to conducting intrusive subsurface activities
- Subsurface utility clearance of soil boring locations by reviewing public utility mark-outs and private utility locations identified in the Geophysical Survey Engineering Report prepared by NOVA Geophysical Engineering (NOVA), dated 13 September 2021

Soil Investigation

- Advancement of 14 soil borings (SB10 through SB23) to depths of about 16 to 20 feet bgs and collection of 42 soil samples (three soil samples from each boring)² and associated quality assurance/quality control [QA/QC] samples (i.e., matrix spike/matrix spike duplicate [MS/MSD], duplicates, and field blanks) for laboratory analysis
- Advancement of three delineation soil borings (SB12, SB17, and SB18) to delineate petroleum impacts identified in SB05 (September 2021 Subsurface Investigation) and three soil borings (SB08N, SB08SE, and SB08SW) to delineate petroleum impacts identified in SB08 (September 2021 Subsurface Investigation). No evidence of impacts were observed; therefore, per the RIWP, no soil samples were collected.

Groundwater Investigation

- Installation and development of five permanent groundwater monitoring wells (MW10, MW13, MW16, MW18, and MW23)

² The RIWP proposed four soil samples at each boring at the following intervals: (1) 0 to 2 feet bgs; (2) sample the greatest degree of impacts in historic fill, or, each distinct interval exhibiting gross contamination, or development depth; (3) the top of the native soil layer; and (4) the groundwater interface. Three samples were collected at each boring location during the RI because one soil sample interval (0 to 2 feet bgs) was representative of both intervals (1) and (2) described above.

- Collection of seven groundwater samples (one groundwater sample from each newly installed monitoring well and two previously installed monitoring wells (MW01 and MW08; September 2021 Subsurface Investigation) and QA/QC samples for laboratory analysis
- Survey and gauging of monitoring wells to detect the potential presence of non-aqueous phase liquid (NAPL), evaluate groundwater elevation, and establish flow direction

Soil Vapor Investigation

- Installation of two sub-slab vapor points (SSV17 and SSV20) immediately below the concrete building slab and collection of two sub-slab vapor samples and one QA/QC sample (ambient air sample) for laboratory analysis

RI sample locations are shown on Figure 4 and a sample summary is provided in Table 1.

4.1 Geophysical Survey and Utility Location

Prior to initiating intrusive subsurface activities for the RI, the New York One Call Center was contacted for Code 753 utility mark-outs. A geophysical survey was conducted by NOVA Geophysical Engineering (NOVA) on 7 September 2021 as a part of the September 2021 Subsurface Investigation. NOVA surveyed the site to evaluate potential subsurface utilities, structures, and significant subsurface anomalies (including USTs) prior to commencing subsurface work. All areas of the site excluding areas with cars (southeastern and northwestern parts of the site), tractor trailers (southwestern part of the site), or raised flooring (within the warehouse on former Lot 8) were surveyed. The geophysical survey was completed using a range of geophysical instruments, including electromagnetic (EM) induction and ground-penetrating radar (GPR). The following geophysical equipment was used:

- Sensors and Software NOGGIN 250 MHz GPR with a shielded antenna
- A RadioDetection RD7100 Electromagnetic utility locator

A copy of the geophysical survey report presenting these findings is included in Appendix B.

4.2 Soil Investigation

4.2.1 Drilling and Logging

A direct-push Geoprobe® 7822 DT or 54 LT was used to advance the soil borings (SB10 through SB23) to about 20 feet bgs or until a confining (clay) layer was encountered and to advance delineation soil borings to 8 feet bgs or until evidence of impacts was not observed. Soil boring depths are summarized below:

- Soil borings SB08N, SB08SE, and SB08SW were advanced to about 8 feet bgs
- Soil borings SB12, SB14, and SB18 through SB23 were advanced to about 16 feet bgs (clay layer)

- Soil borings SB10, SB11, SB13, SB15, SB16, and SB17 were advanced to about 20 feet bgs

Discrete soil samples were collected continuously from surface grade to the termination depth at each boring location into 2-inch-diameter, 4-foot-long MacroCore™ samplers equipped with acetate liners. Recovered soil was visually characterized for soil type, grain size, color, texture, and moisture content. Recovered soil was screened continuously to the boring termination depth for total organic vapor (TOV) concentration using a PID equipped with a 10.6 electron volt (eV) bulb, and for visual and olfactory indications of environmental impacts (e.g., staining, odor). Soil boring logs documenting these observations are included in Appendix C.

Following sample collection, borings were either converted into permanent groundwater monitoring wells or backfilled. Backfill of soil borings consisted of either soil cuttings that were visibly free of environmental impacts (i.e., no staining or odor), clean sand, bentonite, and/or grout to grade. Excess soil cuttings were containerized in a 55-gallon United Nations/Department of Transportation (UN/DOT) drum (Section 4.7).

4.2.2 Soil Sampling and Analysis

Forty-two soil samples (plus QA/QC samples) were collected for laboratory analysis. Three samples were collected from each soil boring from the intervals indicated in the list below based on the AOCs each boring was associated with and field observations:

- From the 0- to 2-foot bgs interval that exhibited the greatest degree of impacts in fill (based on the presence of staining, odor, and anthropogenic material)
- From the groundwater interface
- From the top of the native soil layer

Soil samples were collected in laboratory-supplied containers and were sealed, labeled, placed in an ice-chilled cooler in an effort to maintain a temperature of about 4 degrees Celsius (°C), and transported via courier service to Alpha Analytical Laboratories, Inc. (Alpha), an NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory in Westborough, Massachusetts (ELAP No. 11148), under chain of custody. Samples submitted for VOC analysis were collected directly from the acetate liner using TerraCore® samplers. Soil samples were analyzed using the latest USEPA methods as follows:

- Part 375 List and Target Compound List (TCL) VOCs
- Part 375 List and TCL SVOCs including 1,4-dioxane
- Part 375 List pesticides
- Part 375 List herbicides
- Part 375 List PCBs
- Target Analyte List (TAL)/Part 375 List metals

- Hexavalent and trivalent chromium
- Total cyanide
- NYSDEC-list PFAS

4.3 Groundwater Investigation

4.3.1 Monitoring Well Installation and Development

Five soil borings were converted into groundwater monitoring wells (MW10, MW13, MW16, MW18, and MW23). In addition, two groundwater monitoring wells, MW01 and MW08, were installed during the September 2021 Subsurface Investigation (Section 3.3.1).

The five RI groundwater monitoring wells were constructed with 2-inch-diameter polyvinyl chloride (PVC) riser pipe attached to 10-foot-long, schedule-40, 0.01-inch slotted, 2-inch-diameter PVC screen set to straddle the groundwater table. MW01 was constructed with a two-inch-diameter PVC riser pipe attached to an 8-foot-long Schedule-40 0.01-inch slotted, 2-inch-diameter PVC screen set to straddle the groundwater table. MW08 was constructed with a two-inch-diameter PVC riser pipe attached to an 9-foot-long Schedule-40 0.01-inch slotted, 2-inch-diameter PVC screen set to straddle the groundwater table.

The annulus of each well was filled with No. 0 sand to about one foot above the top of the screen, followed by up to two feet of bentonite. The wells were then filled to grade with grout. All wells were finished with a J-plug and flush-mounted steel manhole cover set into concrete. Following installation, each well was developed by surging and continuously purging via submersible pump until the water became clear.

Purged groundwater was containerized in a 55-gallon UN/DOT drum and staged on-site, pending disposal at an off-site facility (Section 4.7).

Monitoring well construction logs are included in Appendix D.

4.3.2 Groundwater Sampling and Analysis

Monitoring wells were sampled a minimum of one week after development. Sampling was conducted in accordance with the USEPA's low-flow groundwater sampling procedure where possible to allow for collection of representative samples ("Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells," EQASOP-GW 001, 19 September 2017). Prior to sample collection, ambient and headspace VOC readings were collected from each monitoring well location with a PID. Groundwater was purged from each well until physical and chemical parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, turbidity, and oxidation-reduction potential) stabilized. Due to an equipment malfunction, turbidity could not be measured during purging of monitoring wells MW08, MW13, MW18, and MW23, so each well was purged for a minimum of one hour. Groundwater samples were collected from these wells after remaining parameters had stabilized and purge water was

running clear. Each groundwater sample was collected using a peristaltic pump and dedicated high-density polyethylene (HDPE) tubing.

Seven groundwater samples (plus QA/QC samples) were collected in laboratory-supplied containers and were sealed, labeled, placed in an ice-chilled cooler to maintain a temperature of about 4 °C, and transported via courier service to Alpha. Groundwater samples were analyzed using the following methods:

- TCL VOCs
- TCL SVOCs including 1,4-dioxane
- Pesticides
- Herbicides
- PCBs
- TAL metals (filtered and unfiltered)
- Hexavalent and Trivalent Chromium
- Total cyanide
- NYSDEC-list PFAS

Groundwater sampling logs are included in Appendix E.

4.3.3 Monitoring Well Survey and Synoptic Gauging

The vertical location of each monitoring well, including ground surface elevation, outer casing elevation, and inner casing elevation, was surveyed by Langan on 15 December 2022. Vertical control was established relative to NAVD88 by a New York State-licensed land surveyor. Elevations of the wells were surveyed to the nearest 0.01 foot.

Groundwater elevations are presented in Table 2. A groundwater contour map based on the groundwater gauging event is provided as Figure 5.

4.4 Soil Vapor Investigation

4.4.1 Soil Vapor Point Installation

Two sub-slab vapor points (SSV17 and SSV20) were installed in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion. Eastern used a hand-held hammer drill to advance a 5/8-inch-diameter hole through the concrete building slab and installed sub-slab vapor points immediately below the concrete floor slab bottom. The sample port was completed with a dedicated 1-7/8-inch polyethylene implant threaded into polyethylene tubing that extended to surface grade. A clean sand filter pack was placed around the screen implant and the remaining annular space was sealed with hydrated bentonite to surface grade. Sub-slab vapor point construction logs are included as Appendix F.

4.4.2 Soil Vapor Sampling and Analysis

A seal check was performed at each installed sub-slab vapor sample location with a helium tracer gas before and after sample collection. Both sampling points had sufficiently tight seals. Prior to sampling, at least three tubing volumes were purged from the soil vapor point using a MultiRAE multi-gas monitor with a flow rate of about 200 milliliters per minute. The multi-gas meter was used to screen the sample tubing for the presence of VOCs. One outdoor ambient air sample (AA01) was collected concurrently with the sub-slab vapor samples. The ambient air sample was collected at a height of about 4 feet above grade surface.

Sub-slab vapor and ambient air samples were collected using laboratory-supplied, batch-certified clean, 6-liter summa air canisters equipped with 2-hour sample interval flow controllers. Sub-slab vapor and ambient air samples were sealed, labeled, and transported via courier service to Alpha for analysis. The samples were analyzed for VOCs by USEPA Method TO-15.

Sub-slab vapor sampling logs are included as Appendix F.

4.5 Quality Assurance/Quality Control Sampling

In accordance with the Quality Assurance Project Plan (QAPP), QA/QC samples were collected during the RI. Collected QA/QC samples are detailed below and summarized in Table 1.

Soil QA/QC Samples

- Three duplicate samples
- Three matrix spike/matrix spike duplicate (MS/MSD) samples
- Three field blank samples
- Five trip blank samples

Groundwater QA/QC Samples

- One duplicate sample
- One MS/MSD sample
- One field blank sample
- One PFAS field blank sample
- One trip blank sample

Soil Vapor QA/QC Samples

- One ambient air sample

Field duplicate samples were collected to assess the precision of the analytical methods relative to the sample matrix. The duplicates were collected from the same material as the primary sample (i.e., parent sample) by splitting the volume of homogenized sample collected in the field into two sample containers.

MS/MSD samples were collected to assess the effect of the sample matrix on the recovery of target compounds or target analytes. Similarly to duplicate samples, MS/MSD samples were collected from the same material as the primary sample by splitting the volume of homogenized sample collected in the field into three sample containers.

Field blanks were collected to determine the cleanliness of unused tubing, nitrile gloves, and acetate liners used to collect groundwater and/or soil samples. Field blank samples consisted of deionized, distilled water provided by the laboratory that has passed through the sampling apparatus. Field blank samples were analyzed for the same list of analytes as the corresponding sampling event and sample matrix.

PFAS field blanks were collected to assess the potential for contamination of the sample containers and samples with PFAS during sample collection. Field blank samples consisted of PFAS-free, deionized, distilled water provided by the laboratory that has passed through the sampling apparatus. PFAS field blank samples were analyzed for PFAS by USEPA Method 537.

Trip blank samples were collected to assess the potential for contamination of the sample containers and samples during transport from the laboratory, to the field, and back to the laboratory for analysis. Trip blanks contain about 40 milliliters of acidic water (doped with hydrochloric acid) that is prepared and sealed by the laboratory when the empty sample containers are shipped to the field, and then unsealed and analyzed for VOCs by the laboratory when the sample shipment is received from the field.

4.6 Data Validation

Laboratory analyses of soil, groundwater, sub-slab vapor, and air samples were conducted by a NYSDOH ELAP-certified laboratory in accordance with USEPA SW-846 methods and analytical data was reported consistent with the NYSDEC Analytical Services Protocol (ASP) Category B deliverable format. Environmental data was reported electronically using the database software application EQUIS as part of NYSDEC's Environmental Information Management System (EIMS).

The QA/QC procedures required by the NYSDEC ASP and SW-846 methods, including initial and continuing instrument calibrations, surrogate compound spikes, and analysis of other samples (blanks, laboratory control samples, and MS/MSD) were followed. The laboratory provided sample bottles, which were pre-cleaned and preserved in accordance with the SW-846 methods. Where there were differences in the SW-846 and NYSDEC ASP requirements, the NYSDEC ASP took precedence.

Data validation was performed by a Langan validator in accordance with the USEPA validation guidelines for organics and inorganics data review. Validation included the following:

- Verification of QC sample results (both qualitative and quantitative)
- Verification of sample results (both positive hits and non-detects)
- Recalculation of 10 percent of all investigative sample results

- Preparation of Data Usability Summary Reports (DUSR)

Laboratory analytical results from the RI were reported in NYSDEC ASP Category B deliverable format and validated by the Data Validator identified in the QAPP.

4.6.1 Data Usability Summary Report Preparation

A DUSR was prepared for each laboratory delivery group following data validation. The DUSRs present the results of the data validation, including a summary assessment of laboratory data packages, sample preservation and chain of custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method.

For soil samples, the following items were assessed:

- Holding times
- Sample preservation
- Sample extraction and digestion
- Instrument tuning
- Instrument calibration
- Laboratory blanks
- Laboratory control samples
- System monitoring compounds
- Internal standard area counts
- MS/MSD recoveries
- Target compound identification and qualification
- Chromatograms
- Overall system performance
- Serial dilutions
- Dual column performance
- Field duplicate, field blanks, and trip blanks sample results

For groundwater samples, the following items were assessed:

- Holding times
- Sample preservation
- Instrument tuning
- Instrument calibration
- Laboratory blanks
- Laboratory control samples
- System monitoring compounds
- Internal standard area counts
- MS/MSD recoveries

- Target compound identification and qualification
- Chromatograms
- Overall system performance
- Serial dilutions
- Dual column performance
- Field duplicate, trip blank and field blanks sample results

For the sub-slab vapor and air samples, the following items were assessed:

- Holding times
- Instrument tuning
- Instrument calibration
- Laboratory blanks
- Laboratory control samples
- Internal standard area counts
- Target compound identification and qualification
- Chromatograms
- Overall system performance

Based on the results of data validation, the following qualifiers were assigned to the data in accordance with USEPA's guidelines and best professional judgment:

- "R" – The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
- "J" – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- "UJ" – The analyte was not detected at a level greater than or equal to the reporting limit (RL); however, the reported RL is approximate and may be inaccurate or imprecise.
- "U" – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- "NJ" – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

4.7 Field Equipment Decontamination

Non-disposable, down-hole drilling equipment, sampling equipment and apparatuses were decontaminated between sample locations with Alconox® and water. Water used for decontamination and rinsate was containerized into UN/DOT-approved 55-gallon drums, labeled, and staged for off-site disposal

4.8 Investigation-Derived Waste Management

Investigation-derived waste (IDW) generated during the RI included excess non-hazardous soil cuttings, development and purged water and decontamination water. Soil cuttings were containerized in one labeled UN/DOT-approved 55-gallon steel drum. Development and purged water and decontamination water were containerized in one labeled UN/DOT-approved 55-gallon steel drum. All drums will be properly labeled and sealed. As of the data of this report, the drums are staged in the southern part of the site, pending transportation off-site for disposal.

4.9 Air Monitoring

Air monitoring was conducted for site personnel and the community (Community Air Monitoring Plan [CAMP]) in accordance with the RIWP during ground intrusive activities. Dust emissions were monitored using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers (μm) in size (PM₁₀). Organic vapors were monitored with a PID equipped with a 10.6 eV bulb. CAMP data is provided in Appendix G.

4.9.1 Personnel Air Monitoring

Langan conducted air monitoring of the breathing zone periodically during drilling and sampling activities to evaluate health and safety protection for the field personnel. Initially, ambient air monitoring was performed within the work area. Langan monitored VOCs with a MultiRAE 3000 PID in accordance with the Health and Safety Plan (HASP), provided as Appendix B of the RIWP.

4.9.2 Community Air Monitoring Plan

In addition to periodic personnel air monitoring in the worker breathing zone, Langan conducted community air monitoring in accordance with the Site-Specific Community Air Monitoring Plan (CAMP), NYSDOH Generic CAMP, and NYSDEC DER-10 Appendix 1A and Appendix 1B. Particulate exceedances were observed as follows:

- From 8:02 a.m. to 8:07 a.m. on 11 November 2022 due to the drill rig exhaust being blown near the downwind air monitoring station
- At 8:28 a.m. and from 9:01 a.m. to 9:15 a.m. on 15 November 2022 because of concrete being mixed near the downwind air monitoring station

No fugitive dust or nuisance odors associated with intrusive activities were observed migrating off-site during ground-intrusive work.

4.10 Scope Deviations

The follow deviations were made to the proposed scope of work in the RIWP:

- Soil boring SB13/MW13 was relocated about 16 feet north of the proposed location to an area accessible with the drill rig. The proposed location was on an elevated loading dock and did not provide minimum overhead clearance for the drill rig.

- Soil boring SB20 was relocated about 10 feet north of the proposed location to avoid interfering with collection of sub-slab vapor sample at SSV20.
- Soil boring SB05S could not be drilled because the proposed location was within an elevated area of the building and inaccessible to the drill rig (no access ramp). Soil boring SB18 (about 25 feet south of the proposed location of SB05S) was completed as a delineation soil boring.

5.0 FIELD OBSERVATIONS AND ANALYTICAL RESULTS

A complete list of the samples collected during the RI is provided in Table 1. Photographs of the RI activities are in the Site Observation Reports (SOR) included in Appendix H.

5.1 Geophysical Investigation Findings

Multiple subsurface anomalies, including potential utility lines and floor drains, were identified during the geophysical survey. No anomalies resembling a UST were identified. Sample locations were adjusted to avoid documented anomalies. A copy of the geophysical survey report is included in Appendix B.

5.2 Geology and Hydrogeology

A description of the geologic and hydrogeologic observations made during the RI are provided in this section. A groundwater contour map is provided as Figure 5. Cross-sectional diagrams showing inferred soil profiles are shown on Figures 6A and 6B. Soil boring logs are provided in Appendix C.

5.2.1 Geology

Fill, predominantly consisting of dark gray to dark brown fine sand with varying proportions of silt, gravel, brick, coal, coal ash, mortar, wood construction debris, slag, concrete, wood, glass, and ceramics was encountered to depths ranging from about 5 to 15 feet bgs. The fill layer is deeper in the northeastern, southwestern, central parts of the site (about 11 to 15 feet bgs in SB14 through SB18), and shallower in the northwestern and southeastern parts of the site (about 5 to 10 feet bgs in borings SB08N, SB08SE, SB08SW, SB10 through SB13, and SB19 through SB23).

Fill is underlain by a layer of fine to medium grained sand with varying amounts of silt and gravel was encountered. The thickness of the sand layer ranges from about 2 to 7 feet across the site. An impermeable organic clay layer with varying amounts of layer with fibrous vegetation (marsh deposits) is below the sand layer. The top of the organic clay layer was found between about 10.5 and 20 feet bgs and was about 7 to 18.5 feet thick. The clay layer with fibrous vegetation (marsh deposits) was observed in all soil borings (with the exception of SB08N, SB08SE, and SB08SW, which terminated at 8 feet bgs) from about 13 to 20 feet bgs. Bedrock was not encountered.

5.2.2 Hydrogeology

Groundwater underlying the site was observed at depths ranging from 2.5 to 7 feet bgs during the RI and September 2021 Subsurface Investigation. Synoptic groundwater depth measurements were collected on 15 December 2022 from seven monitoring wells (MW01, MW08, MW10, MW13, MW16, MW18, and MW23). During the synoptic gauging event, depth to groundwater ranged from about 3.5 feet bgs in MW23 to 7 feet bgs in MW13 (about el 3.20 to 4.21 [NAVD88]). NAPL was not observed in the monitoring wells during the gauging event.

Based on the depth to water measurements, groundwater appears to flow north. Regional groundwater flow is expected to be to the east towards Gowanus Canal. Tidal influence, underground utilities, and other subsurface structures may locally influence the direction of groundwater flow.

5.3 Soil Findings

5.3.1 Field Observations

No evidence of petroleum-impacts (e.g., odors, staining, PID readings) were apparent in any soil boring. PID readings were 0.0 ppm for all soil samples, with the exception of soil from 17 to 20 feet bgs in SB17, where PID readings up to about 30 ppm were recorded. The elevated PID readings at SB17 were attributed to organic material in the clay layer.

5.3.2 Analytical Results

The following sections present a summary of soil sample results from the RI that exceed the UU, Protection of Groundwater (PGW), and/or RURR SCOs. A summary of the soil sample laboratory results compared to UU, RURR, and PGW SCOs are presented in Table 3. Soil sample locations and results that exceed comparison criteria are presented on Figure 7. Laboratory analytical data reports are included in Appendix I.

VOCs

One VOC, acetone, was detected at a concentration above the UU and PGW SCOs, but below the RURR SCO in one soil sample collected from 15 to 17 feet bgs. The results are summarized in the following table (the number of detections above criteria follow the VOC in parentheses):

Analyte	Concentration above SCO (mg/kg)	UU SCO (mg/kg)	RURR SCO (mg/kg)	PGW SCOs (mg/kg)
Acetone (1)	0.095 in SB17_15-17	0.05	100	0.05

mg/kg = milligrams per kilogram

SVOCs

One or more of 13 SVOCs were detected at concentrations above the UU, RURR, and/or PGW SCOs in 20 soil samples collected from surface grade to depths of up to 13 feet bgs as summarized in the following table (the number of detections above criteria follow each SVOC in

parentheses). The detected concentrations that exceed RURR SCOs are bolded and the detected concentrations that exceed PGW SCOs are underlined.

Analyte	Minimum Concentration above SCOs (mg/kg)	Maximum Concentration above SCOs (mg/kg)	UU SCOs (mg/kg)	RURR SCOs (mg/kg)	PGW SCOs (mg/kg)
Acenaphthene (1)	24 in SB11_0-2	24 in SB11_0-2	20	100	98
Benzo(a)anthracene (19)	<u>1.2</u> in SB22_0-2	<u>64</u> in SB11_0-2	1	1	1
Benzo(a)pyrene (18)	<u>1.2</u> in SB16_0-2 and SB11_3-5	<u>52</u> in SB11_0-2	1	1	22
Benzo(b)fluoranthene (18)	<u>1.2</u> in SB12_11-13	<u>58</u> in SB11_0-2	1	1	1.7
Benzo(k)fluoranthene (11)	1 in SB14_0-2	<u>17</u> in SB11_0-2	0.8	3.9	1.7
Chrysene (19)	<u>1.1</u> in SB22_0-2	<u>66</u> in SB11_0-2	1	3.9	1
Dibenz(a,h)anthracene (11)	0.36 in SB14_0-2	6.1 in SB11_0-2	0.33	0.33	1,000
Dibenzofuran (1)	16 in SB11_0-2	16 in SB11_0-2	7	59	210
Fluoranthene (1)	170 in SB11_0-2	170 in SB11_0-2	100	100	1,000
Indeno(1,2,3-cd)pyrene (20)	0.52 in SBDUP02_111422*	<u>30</u> in SB11_0-2	0.5	0.5	8.2
Naphthalene (1)	<u>25</u> in SB11_0-2	25 in SB11_0-2	12	100	12
Phenanthrene (1)	260 in SB11_0-2	260 in SB11_0-2	100	100	1,000
Pyrene (1)	170 in SB11_0-2	170 in SB11_0-2	100	100	1,000

* Parent sample for duplicate is SB21_0-2

Pesticides

One or more of four pesticides were detected at concentrations above the UU SCOs, but below the RURR and PGW SCOs, in 11 soil samples collected from surface grade to 7.5 feet bgs.. The

results are summarized in the following table (the number of detections above criteria follow each pesticide in parentheses):

Analyte	Minimum Concentration above SCOs (mg/kg)	Maximum Concentration above SCOs (mg/kg)	UU SCOs (mg/kg)	RURR SCOs (mg/kg)	PGW SCOs (mg/kg)
4,4'-DDD (2)	0.00381 in SB16_0-2	0.0089 in SB15_5.5-7.5	0.0033	13	14
4,4'-DDE (9)	0.00614 in SB12_3-5	0.0492 in SB13_0-2	0.0033	8.9	17
4,4'-DDT (9)	0.00743 in SB11_3-5	0.118 in SB16_0-2	0.0033	7.9	136
Alpha Chlordane (1)	1.8 in SB13_0-2	1.8 in SB13_0-2	0.094	4.2	2.9

Herbicides

Herbicides were not detected in soil samples.

PCBs

Total PCBs were detected at concentrations above the UU SCO, but below the RURR and PGW SCO, in 5 soil samples collected from surface grade to 7.5 feet bgs. The results are summarized in the following table (the number of detections above criteria follow the analyte in parentheses):

Analyte	Minimum Concentration above SCOs (mg/kg)	Maximum Concentration above SCOs (mg/kg)	UU SCOs (mg/kg)	RURR SCOs (mg/kg)	PGW SCOs (mg/kg)
Total PCBs (5)	0.104 in SB15_5.5-7.5	0.229 in SB14_0-2	0.1	1	3.2

Metals

One or more of 11 metals were detected at concentrations above the UU, PGW and/or RURR SCOs in 45 soil samples collected from surface grade to depths of up to 17 feet bgs. The detected concentrations that exceed RURR SCOs are bolded, and the detected concentrations that exceed

PGW SCOs are underlined (the number of detections above criteria follow each metal in parentheses):

Analyte	Minimum Concentration above SCOs (mg/kg)	Maximum Concentration above SCOs (mg/kg)	UU SCOs (mg/kg)	RURR SCOs (mg/kg)	PGW SCOs (mg/kg)
Arsenic (19)	14.8 in SB20_10-12	<u>298</u> in SB20_0-2	13	16	16
Barium (6)	381 in SB11_0-2	625 in SB16_0-2	350	400	820
Cadmium (3)	2.9 in SB11_0-2	<u>9.92</u> in SB16_0-2	2.5	4.3	7.5
Chromium, Hexavalent (4)	1.5 in SB14_0-2	<u>25.5</u> in SB16_0-2	1	110	19
Chromium, Trivalent (6)	31.5 in SB15_5.5-7.5	152 in SB11_0-2	30	180	NS
Copper (15)	52.2 in SBDUP03_111522	432 in SB11_3-5	50	270	1,720
Lead (23)	99.4 in SB13_10-12	<u>1,800</u> in SB10_3-5	63	400	450
Mercury (22)	0.309 in SB17_2-4	<u>28.2</u> in SB20_10-12	0.18	0.81	0.73
Nickel (7)	31.7 in SB15_5.5-7.5	79.1 in SB11_3-5	30	310	130
Selenium (1)	<u>4.06</u> in SB16_0-2	<u>4.06</u> in SB16_0-2	3.9	180	4
Zinc (16)	163 in SB17_2-4	2,920 in SB16_0-2	109	10,000	2,480

PFAS and 1,4-Dioxane

NYSDEC published soil guidance values for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in the PFAS Guidance. PFOS and/or PFOA were detected in 9 soil samples collected from surface grade to depths of up to 7.5 feet bgs at concentrations above UU and PGW PFAS Guidance Values, but not RURR PFAS Guidance Values. The detected concentrations that exceed PFAS Guidance Values are summarized below (the number of detections above criteria follow each PFAS contaminant in parentheses, and the detected concentrations that exceed PGW PFAS Guidance Values are underlined):

Analyte	Minimum Concentration above Guidance Value (mg/kg)	Maximum Concentration above Guidance Value (mg/kg)	NYSDEC Guidance Values		
			UU (mg/kg)	RURR (mg/kg)	PGW (mg/kg)
PFOS (7)	0.00116 in SB11_0-2	<u>0.00372</u> in SBDUP01_110922	0.00088	0.044	0.0037
PFOA (2)	<u>0.00128</u> in SBDUP03_111522	<u>0.0129</u> in SB22_0-2	0.00066	0.033	0.0011

1,4-Dioxane was not detected in soil samples.

5.4 Groundwater Findings

5.4.1 Field Observations

All wells were gauged for free product with an oil-water interface probe. No free product was observed in groundwater monitoring wells. During development and sampling of monitoring wells, no sheen was observed on purged groundwater. A slight petroleum-like odor was observed in MW08. Monitoring well headspace PID measurements above background ranged from 0.1 ppm (MW10 and MW13) to 1.9 ppm (MW23).

5.4.2 Analytical Results

The following sections present a summary of groundwater sample results from the RI that exceed the SGVs. A summary of the groundwater sample laboratory results compared to SGVs is presented in Table 4. Groundwater sample locations and results that exceed the comparison criteria are presented on Figure 8. Laboratory analytical data reports are included in Appendix I.

VOCs

VOCs were not detected in groundwater samples above the SGVs.

SVOCs

One or more of 4 SVOCs were detected at concentrations above the SGVs in 7 groundwater samples. The results are summarized in the following table (number of detections above criteria follow each SVOC in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
Benzo(a)anthracene (4)	0.1 in MW10_112222 and GWDUP01_112222	0.12 in MW16_112222 and MW23_112222	0.002
Benzo(a)pyrene (1)	0.1 in MW16_112222	0.1 in MW16_112222	0
Benzo(b)fluoranthene (2)	0.11 in MW23_112222	0.12 in MW16_112222	0.002
Chrysene (7)	0.02 in MW13_112222 and MW18_112222	0.09 in MW23_112222	0.002

µg/L = micrograms per liter

Pesticides

One pesticide was detected in a groundwater sample at a concentration above the NYSDEC SGVs as summarized in the following table (number of detections above criteria follow the analyte in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
Chlordane (1)	0.158 in MW13_112222	0.158 in MW13_112222	0.05

Herbicides

Herbicides were not detected in groundwater samples.

PCBs

Total PCBs were detected in a groundwater sample at a concentration above the NYSDEC SGVs as summarized in the following table (number of detections above criteria follow each analyte in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
Total PCBs (1)	0.121 in MW16_112222	0.121 in MW16_112222	0.09

Metals

One or more of 16 metals (total and dissolved) were detected at concentrations above the SGVs in all groundwater samples. The results are summarized in the following table (number of detections above criteria follow each metal in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
Antimony (3)	3.42 in MW13_112222	14.89 in MW01_112222	3
Antimony (*Dissolved) (2)	4.62 in MW16_112222	13.78 in MW01_112222	3
Arsenic (3)	47.32 in MW08_112222	109.5 in MW18_112222	25
Arsenic (*Dissolved) (3)	44.95 in MW08_112222	98.14 in MW18_112222	25
Iron (6)	2,020 in MW10_112222	23,800 in MW13_112222	300
Iron (*Dissolved) (5)	1,720 in MW10_112222	13,600 in MW08_112222	300
Lead (3)	25.54 in MW23_112222	1,149 in MW13_112222	25
Magnesium (1)	73,100 in MW18_112222	73,100 in MW18_112222	35,000
Magnesium (*Dissolved) (1)	61,400 in MW18_112222	61,400 in MW18_112222	35,000
Manganese (7)	405.6 in MW01_112222	1,099 in MW18_112222	300
Manganese (*Dissolved) (6)	372.3 in GWDUP01_112222	1,120 in MW18_112222	300
Mercury (1)	1.7 in MW13_112222	1.7 in MW13_112222	0.7
Selenium (2)	22.7 in MW16_112222	35.1 in MW01_112222	10
Selenium (*Dissolved) (2)	21.5 in MW16_112222	32.3 in MW01_112222	10
Sodium (7)	42,300 in MW23_112222	251,000 in MW18_112222	20,000
Sodium (*Dissolved) (7)	38,000 in GWDUP01_112222	209,000 in MW18_112222	20,000

* = Dissolved metal concentrations are from filtered groundwater samples; total metal concentrations are from unfiltered groundwater samples.

PFAS and 1,4-Dioxane

PFOA and/or PFOS were detected at concentrations above the SGVs in all groundwater samples. The results are summarized in the following table: (number of detections above criteria follow each PFAS in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
PFOS (8)	0.0377 in MW18_112222	0.893 in MW08_112222	0.0027
PFOA (8)	0.0107 in MW13_112222	0.342 in MW08_112222	0.0067

1,4-Dioxane was detected at concentrations above the SGV in 4 groundwater samples. The results are summarized in the following table: (number of detections above criteria follow 1,4-dioxane in parentheses):

Analyte	Minimum Concentration above SGV (µg/L)	Maximum Concentration above SGV (µg/L)	SGV (µg/L)
1,4-Dioxane (4)	27 in MW01_112222	48.1 in MW08_112222	0.35

No on-site source of PFOA, PFOS, or 1,4-dioxane was identified; therefore, presence of PFAS compounds (PFOA, PFOS) and 1,4-Dioxane is likely a regional condition or off-site source, and not attributed to an on-site source.

5.5 Sub-Slab Vapor Findings

5.5.1 Analytical Results

Two sub-slab soil vapor samples and one ambient air sample were submitted for laboratory analysis for VOCs. There is no standard for soil vapor samples in New York State. Sub-slab vapor and ambient air sample results are summarized in Table 5 and shown on Figure 9. Laboratory analytical reports are included in Appendix I.

Soil vapor results were evaluated using the NYSDOH Decision Matrices. NYSDOH Decision Matrices evaluate eight VOCs (TCE, PCE, 1,1,1-trichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, carbon tetrachloride, methylene chloride, and vinyl chloride) using three matrices that evaluate the relationship between sub-slab vapor and indoor air concentrations and provide recommendations for actions such as monitoring or mitigation. Full evaluation using the NYSDOH Decision Matrices requires both vapor and indoor air data; indoor air data was not collected during the RI considering the existing building on-site are vacant and will be demolished during site redevelopment. However, the NYSDOH Decision Matrices can provide guidance based on vapor concentrations as they relate to ranges of possible indoor air concentrations. Sub-slab vapor sample results indicated the following:

- Twenty-one VOCs were detected in soil vapor samples.

- One VOC, TCE, was detected at a concentration at which mitigation is recommended for occupied structures. TCE was detected at a concentration of $69.3 \mu\text{g}/\text{m}^3$ in SSV20_111122. NYSDOH Decision Matrix A recommends mitigate for all indoor air concentration ranges, including the minimum criteria of $<2 \mu\text{g}/\text{m}^3$ for indoor air.
- Total VOC concentrations in sub-slab vapor samples SSV17_111122 and SSV20_111122 were 111.64 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and $331.18 \mu\text{g}/\text{m}^3$, respectively. The total VOC concentration in the ambient air sample (AA01_111122) was $14.42 \mu\text{g}/\text{m}^3$.
- Total BTEX concentrations in the sub-slab vapor samples SSV17_111122 and SSV20_111122 were $10.3 \mu\text{g}/\text{m}^3$ and $85.63 \mu\text{g}/\text{m}^3$, respectively. The total BTEX concentration in the ambient air sample (AA01_111122) was $1.08 \mu\text{g}/\text{m}^3$.

5.6 QA/QC Sample Results

Duplicates, field/equipment blanks, MS/MSDs, and trip blanks were collected during the RI and detailed in Table 1. Quality control sample results were evaluated during data validation. Laboratory results for duplicate samples are presented in Tables 3, 4, and 5. A summary of the QA/QC sample (field, trip, and equipment blanks) laboratory detections is presented in Table 6. Laboratory analytical reports are provided in Appendix I.

5.7 Data Usability

Category B laboratory reports for the soil, groundwater, and sub-slab vapor samples were provided by Alpha to the Langan validator for samples collected during the RI. Completeness, defined as the percentage of analytical results that are judged to be valid, is 100% for soil samples, groundwater samples, and soil vapor samples. All data are considered usable, as qualified, and no major deficiencies were identified. A Langan validator performed, to the extent practicable, the data validation in accordance with the analytical method, "DER-10/Technical Guidance for Site Investigation and Remediation" and "Guidelines for Sampling and Analysis of PFAS under NYSDEC's Part 375 Remedial Programs, January 2021". Professional judgment was applied as necessary and where appropriate.

Additional details of the data validation are provided in the DUSRs included as Appendix J.

5.8 Areas of Concern

This section discusses the RI results with respect to the AOCs identified prior to the start of the RI (Section 3.4) and subsequently defines the AOCs determined from RI results and observations.

5.8.1 AOC 1: Contaminated Fill

Fill from unknown sources, was observed from surface to varying depths across the site during the September 2021 Subsurface Investigation and contaminants associated with fill were identified in soil. During the RI, a fill layer was encountered in all borings to depths ranging from

about 5 to 15 feet bgs. AOC 1 is site-wide and was investigated during the RI by all borings and monitoring wells completed across the site, 28 soil samples and 7 groundwater samples.

Soil

Fill encountered during the RI was characterized as dark gray to dark brown fine sand with varying amounts of silt, gravel, brick, coal, coal ash, mortar, wood construction debris, slag, concrete, wood, glass, and ceramics. Soil samples collected from the fill layer contained SVOCs, pesticides, PCBs, metals, and PFAS at concentrations above UU SCOs, RURR SCOs, PGW SCOs, and/or PFAS Guidance Values. Results of the RI soil samples (28 total) collected from the fill layer are summarized as follows:

- Thirteen SVOCs were detected at concentrations exceeding the UU, RURR, and/or PGW SCOs in soil samples collected from fill. Polycyclic aromatic hydrocarbons (PAH) detected in soil samples including acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene are consistent with fill.
- Four pesticides were detected at concentrations exceeding the UU SCO in 10 soil samples collected from the fill interval. Pesticide concentrations may be attributed to fill quality.
- Total PCBs were detected in at concentrations exceeding the UU SCOs in 4 soil samples collected in the fill layer. Total PCB concentrations may be attributed to fill quality.
- Eleven metals were detected at concentrations exceeding the UU, RURR, and/or PGW SCOs in 22 samples collected within the fill layer. Arsenic, copper, lead, hexavalent chromium, and mercury may be attributable to historical site use and/or fill quality. Other metals detected at concentrations above the SCOs in fill (barium, cadmium, trivalent chromium, nickel, selenium, and zinc) are typical of fill on urban properties.
- PFOS and/or PFOA were detected at concentrations exceeding the UU and/or PGW PFAS Guidance Values in 7 soil samples collected from the fill layer. No known on-site uses of PFAS were identified.
- Pesticides and total PCBs were not detected at concentrations above UU and/or RURR SCOs below the fill layer.

Groundwater

- One or more of seven SVOCs were detected at concentrations above SGVs in six of the seven groundwater samples.
- One pesticide (chlordane [alpha and gamma]) was detected at a concentration above the SGVs in MW13_112222.

- Total PCBs were detected at a concentration above the SGVs in MW16_112222.
- Six dissolved-phase metals (antimony, arsenic, iron, magnesium, manganese, selenium, and sodium) were detected at concentrations above SGVs in seven groundwater samples. The presence of dissolved-phase antimony, iron, manganese, magnesium, selenium, and sodium at concentrations above the SGVs may be attributable to regional conditions. The presence of dissolved-phase arsenic at a concentration above the SGV may be from on-site soil/fill (AOC 3).
- Metals detected only in unfiltered samples at concentrations above SGVs (lead and mercury) are likely the result of suspended solids derived from fill entrained in groundwater samples.
- PFOA and PFOS were detected in groundwater samples above SGVs. No historical uses or on-site source of PFOA or PFOS was identified; therefore, the presence of PFOA and PFOS is likely a regional condition or attributed to unidentified off-site sources.
- 1,4-Dioxane was detected above the SGV in 4 of the 7 monitoring wells across the site. No on-site source of 1,4-dioxane was identified; therefore, presence of 1,4-dioxane is likely a regional condition or attributed to unknown off-site sources.

Conclusions

Fill is ubiquitous across the site and extends from site grade to as deep as 15 feet bgs. The fill layer is deeper in the northeastern, southwestern, central parts of the site (about 11 to 15 feet bgs in SB14 through SB18), and shallower in the northwestern and southeastern parts of the site (about 5 to 10 feet bgs in borings SB08N, SB08SE, SB08SW, SB10 through SB13, and SB19 through SB23).

In soil, SVOCs, pesticides, PCBs and metals are attributable to fill quality. Some metals including arsenic, copper, lead, hexavalent chromium, and mercury in soil may also be attributable to historical site uses. SVOCs and metals (excluding arsenic) in groundwater are likely associated with turbidity/entrained fill in groundwater samples as these compounds are not readily dissolvable in groundwater. Total and dissolved metals, excluding arsenic, may also be attributed to regional groundwater quality.

5.8.2 AOC 2: Petroleum Impacts

During the September 2021 Subsurface Investigation, soil staining, petroleum-like odors, and elevated PID readings were observed from 0.5 to 1 feet bgs at SB05 (maximum of 408.8 ppm) and from 1 to 8 feet bgs at SB08 (maximum of 217.5 ppm). VOCs and/or SVOCs were detected above the UU SCOs and SGVs in soil and groundwater samples, respectively, collected from the two areas. AOC 2 was investigated during the RI by advancing delineation soil borings near SB05 (SB12, SB17, SB18) and SB08 (SB08N, SB08SE, and SB08SW) and monitoring wells.

Soil

Environmental impacts associated with petroleum were not observed in RI borings throughout the site.

During the RI, there was no evidence of petroleum-impacts at any of the three delineation borings around SB05 (SB12, SB17, and SB18) and no staining or odors were observed. PID readings were 0.0 ppm for all intervals, with the exception of SB17, where elevated PID readings (maximum of 31.3 ppm) were observed from 17 to 20 feet bgs. Elevated PID readings at SB17 were attributed to organic material in the clay layer.

Soil borings SB08N, SB08SE, and SB08SW were advanced to a depth of 8 feet bgs in the vicinity of SB08. There was no evidence of petroleum-impacts at any of the three delineation borings around SB08: no staining or odors were observed, and PID readings were 0.0 ppm for all intervals. Based on the lack of observed petroleum impacts, soil samples were not collected from the delineation soil borings.

Groundwater

During the RI, all seven groundwater monitoring wells were sampled to investigate AOC 2. There were no VOCs detected above the SGVs and two SVOCs (chrysene and 1,4-dioxane) detected above the SGVs. At MW-08, a slight petroleum-like odor was noted when collecting the groundwater sample.

Conclusions

Petroleum-impacts to soil were not observed in delineation borings completed during the RI. Petroleum-impacted groundwater was not identified in groundwater samples collected from monitoring wells across the site. Therefore, petroleum-impacts associated with AOC 2 are localized and not impacting groundwater quality at the site.

5.8.3 AOC 3: Arsenic in Soil and Groundwater Impacts

During the September 2021 Subsurface Investigation, arsenic was detected in soil at concentrations above the UU and RURR SCOs and arsenic (total and dissolved) was detected in groundwater at concentrations above SGVs. AOC 3 was investigated during the RI by all borings, monitoring, soil samples, and groundwater samples.

Soil

Arsenic was detected in 19 soil samples at concentrations above the UU SCO and in 17 soil samples at concentrations above the RURR and PGW SCO. Of the 14 soil samples collected at the groundwater interface, 5 samples contained arsenic at concentrations above the PGW SCO (SB12_3-5, SB14_6-8, SB15_5.5-7.5, SB16_5.5-7.5, and SB20_4-6), all of which were collected from the southwestern and central parts of the site (former Lot 6 and Lot 44). Of the 14 soil

samples collected from native soil layer, 1 sample contained arsenic at a concentration exceeding the PGW SCO (SB20_10-12), which was collected from the central part of the site (former Lot 44). The maximum concentration of arsenic detected in soil during the RI was 298 mg/kg in SB20_0-2 (central part of the site; former Lot 44).

Arsenic impacts in soil may be associated with coal and coal ash identified in the fill layer observed at the site. Arsenic in soil may also be the result of historical uses of former Lot 44 (painting company, mattress and quilt manufacturer, waste paper and rag bailing company, and a brewing and bottle company).

Groundwater

Arsenic (total and dissolved) was detected in 3 groundwater samples (MW08_112222, MW16_112222, and MW18_112222) at concentrations above the SGVs. The maximum concentration of dissolved arsenic detected in groundwater during the RI was 98.14 µg/L in MW18_112222. Monitoring wells containing dissolved arsenic exceedances were located in the eastern (MW08), central (MW18), and southwestern corner (MW16) of the site. Arsenic impacts in groundwater generally correlate with locations where arsenic was detected in soil samples collected from the groundwater interface at concentrations above the PGW SCO, with the exception of the eastern part of the site (MW08). Arsenic impacts at MW08 may have migrated from groundwater beneath the former Lot 44.

Conclusions

Arsenic impacts in soil are attributable to coal or coal ash within fill at the site or the result of the historical site uses. Arsenic impacts in groundwater are the result of arsenic-impacted soil within the saturated zone in the southwestern and central parts of the site.

5.8.4 AOC 4: 1,4-Dioxane in Groundwater

The September 2021 Subsurface Investigation identified 1,4-Dioxane in groundwater at concentrations above the SGV in groundwater samples collected across the site. 1,4-Dioxane was investigated by sampling soil and groundwater throughout the site.

Soil

1,4-Dioxane was not detected above the reporting limit in any soil samples collected during the RI.

Groundwater

1,4-Dioxane was detected in 4 of the 7 groundwater samples (MW01_112222, MW08_112222, MW10_112222, and MW18_112222) at concentrations above the SGV. Monitoring wells with

1,4-dioxane concentrations exceeding SGVs are located in the northern and eastern parts of the site.

Conclusions

1,4-Dioxane was detected above SGV in groundwater samples collected at the site. However, 1,4-Dioxane was not detected in any soil samples collected across the site. Therefore, the presence of 1,4-dioxane in groundwater may be attributed to unidentified off-site sources or a regional condition.

6.0 QUALITATIVE HUMAN AND FISH/WILDLIFE EXPOSURE ASSESSMENT

Human health exposure risk was evaluated for both current and future site and off-site conditions, in accordance with the May 2010 NYSDEC Final DER-10 Technical Guidance for Site Investigation and Remediation. The assessment includes an evaluation of potential sources and migration pathways of site contamination, potential receptors, exposure media, and receptor intake routes and exposure pathways.

In addition to the human health exposure assessment, NYSDEC DER-10 requires an on-site and off-site Fish and Wildlife Resources Impact Analysis (FWRIA) if certain criteria are met. Based on the requirements stipulated in Section 3.10 and Appendix 3C of DER-10, there was no need to prepare an FWRIA for the site. A completed form of DER-10 Appendix 3C is enclosed in Appendix K.

6.1 Current Conditions

The 20,300-square-foot (0.47-acre) site is located in the Gowanus neighborhood of Brooklyn, New York. The site is developed with four vacant buildings. The remainder of the site is grass- or concrete-covered. The former, most-recent, uses of the structures are described below::

- One-story warehouse previously used as a freight hauling business with open air parking to the north and south (former Lot 6)
- One-story warehouse previously used as a construction services business (former Lot 8)
- Two-story warehouse previously occupied by a moving company (former Lot 44)
- One-story building previously occupied by a van rental company (former Lot 42 and p/o Lot 9).

Surface cover at the site consists of concrete, gravel, or soil. One ecological receptor, the Gowanus Canal, is located about 350 feet southeast of the site. Sensitive receptors were identified within a half-mile of the site are listed in Section 2.1.1.

6.2 Proposed Conditions

The proposed redevelopment plan includes demolishing all existing structures and construction of one mixed-use building. The building will encompass about 19,500 square feet and will include an about a concrete-paved courtyard in the west-central part of the site. The proposed building consists of a 14-story residential tower in the south-western and central part of the site, with one story commercial structures attached in other areas. In accordance with the zoning, the proposed development will include affordable housing. A cellar is not included in the proposed redevelopment.

6.3 Summary of Environmental Conditions

Based on the source, concentration, frequency, and locations of compounds identified in soil, groundwater, and soil vapor at the site, the contaminants of concern (COC) for the site are SVOCs, pesticides, PCBs, metals, PFAS, and 1,4-dioxane.

Soil

Soil sample analytical results detected concentrations of SVOCs, pesticides, PCBs, metals, and PFAS exceeding UU SCOs, RURR SCOs, PGW SCOs, and/or PFAS Guidance Values. SVOCs, pesticides, PCBs and some metals (barium, cadmium, trivalent chromium, nickel, selenium, and zinc) may be attributed to the fill at the site. Fill is site-wide and varies in depth, ranging from about 5 to 15 feet bgs. Metals including arsenic, copper, lead, hexavalent chromium, and mercury maybe associated with fill or attributed to historical uses. There are localized arsenic, lead, and mercury impacts to native soil underlying the fill layer. Petroleum-impacts to soil are localized to two areas and may be attributed to historical site uses. PFOA and PFOS concentrations above PFAS Guidance for PGW is localized and limited to shallow soil (samples collected from 0 to 2 feet bgs); no on-site source of PFAS has been identified.

Groundwater

Groundwater sample analytical results detected concentrations of SVOCs, dissolved-phase metals, PFAS, and 1,4-dioxane at concentrations exceeding SGVs. SVOCs in groundwater are likely associated with suspended solids from fill entrained in groundwater samples as these compounds are not readily dissolvable in groundwater. The presence of dissolved-phase metals (excluding arsenic) at concentrations above the SGVs may be attributable to regional conditions. The presence of dissolved-phase arsenic exceeding the SGV are the result of arsenic-impacted soil within the saturated zone in the southwestern and central parts of the site. PFOA, PFOS, and 1,4-dioxane in groundwater is site-wide. No on-site source of PFAS or 1,4-dioxane was identified; therefore, groundwater impacts are likely a regional condition or attributed to unknown off-site sources.

Sub-Slab Vapor

Sub-slab vapor is impacted with VOCs, including TCE and BTEX. TCE was detected in one sub-slab sample at a concentration above the recommended mitigation criteria in NYSDOH Decision Matrices. TCE and BTEX were not detected in soil and groundwater samples at concentrations exceeding SCOs or SGVs. TCE and BTEX impacts to soil vapor are likely associated with an off-site source.

6.4 Conceptual Site Model

A conceptual site model (CSM) was developed based on the findings of the RI to produce a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways.

6.4.1 Potential Sources of Contamination

Potential sources of contamination have been identified and include fill, historical uses of the site, and historical uses of nearby properties. The site-wide presence of fill has been established as a source of SVOCs, pesticides, PCBs, and metals in soil; and SVOCs, pesticides, PCBs, and metals in groundwater. Some metals in soil (arsenic, copper, lead, hexavalent chromium, and mercury) may be attributed to coal and coal ash in fill or historical uses (i.e., painting company, mattress and quilt manufacturer, waste paper and rag bailing company, brewing and bottle company). Localized petroleum-impacts to soil were identified at limited locations and likely attributed to historical site uses as a car garage (former Lot 42) and manufacturer (former Lot 8). Arsenic impacts in groundwater are the result of arsenic-impacted soil within the saturated zone in the southwestern and central parts of the site. No on-site source of 1,4-dioxane and PFAS in groundwater and VOCs in soil vapor was identified and are likely associated with off-site sources or a regional condition.

6.4.2 Exposure Media

Impacted media include the following:

- Soil: SVOCs, pesticides, PCBs, metals, and PFAS
- Groundwater: SVOCs, pesticides, PCBs, metals, PFAS, and 1,4-dioxane
- Soil vapor: VOCs

6.4.3 Receptor Populations

The site is currently vacant and has restricted access (locked gates and doors) to authorized workers, guests and personnel investigating environmental and geotechnical conditions. During site development and remedial construction, human receptors will be limited to construction and remediation workers, authorized guests, design team members visiting the site, and the public pedestrians adjacent to the site. Under future conditions, receptors will include the new building occupants, visitors to the residential properties and recreational spaces, and building management/maintenance employees.

6.5 Potential Exposure Pathways – On-Site

6.5.1 Current Conditions

Human exposure to contaminated media is currently limited as majority of the site paved with covered with gravel or concrete. The site is also fenced with only authorized guests having

access; therefore, human exposure to contaminated soil is limited. During any subsurface investigations or prior to implementation of intrusive work, the potential exposure pathways (dermal absorption, inhalation, and ingestion) would be controlled through use of personal protective equipment (PPE), implementation of a Health and Safety Plan and Community Air Monitoring Program and access limitations.

Because groundwater in this area of New York City is not used as a potable water source and access to groundwater below the site is prevented by surface soil, there is no complete exposure pathway under current site conditions. There is a potential exposure pathway through dermal absorption, inhalation, and ingestion during investigative groundwater sampling, but it is controlled by limiting site access and through the implementation of the HASP during ground-intrusive work.

Because the site has several enclosed spaces, exposure pathways for soil vapor intrusion do exist. TCE was detected in one sub-slab vapor sample (SSV20_111122) above the minimum concentration at which mitigation is recommended as set forth in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion. The site is currently vacant and site access is restricted to the public. Existing buildings will be demolished prior to remedial construction. Any remaining potential exposure pathways through dermal absorption and inhalation are controlled by limiting site access and through the implementation of a HASP by those with access.

6.5.2 Construction/Remediation Condition

Remediation and construction activities are anticipated to include excavation and off-site disposal of impacted soil for construction of building foundations and utilities, localized excavation of soil contributing to groundwater contamination or in-situ groundwater treatment (dependent on excavation depth for building construction) , and installation of engineering controls including construction of site cover system across the site, waterproofing/vapor barrier membrane beneath the ground floor slab, and potentially a sub-membrane depressurization system (SMD).. Potential exposure pathways for dermal absorption, ingestion, and/or inhalation during construction/remediation will be monitored and controlled through a variety of engineering controls (i.e., the implementation of a Construction Health and Safety Plan [CHASP], CAMP, Soil/Materials Management Plan [SMMP], and the use of vapor and dust suppression techniques). The controls for the construction and remedial activities will be proposed in the forthcoming RAWP based on the findings of this report.

6.5.3 Proposed Future Conditions

Site remediation is anticipated to include installation of a site-wide cover system (e.g., concrete building slabs, asphalt, pavers, landscaping) with a waterproofing/vapor barrier membrane beneath the ground floor slab, and potentially a sub-membrane depressurization system (SMD). A cover system would prevent direct human exposure to and ingestion of impacted soil and

groundwater. Potable water provided to Kings County will continue to be sourced from the Delaware, Catskills and Croton watersheds.

The construction of engineering controls including the building foundation slab and the installation of a waterproofing/vapor barrier membrane will mitigate the exposure pathway of VOCs in soil vapor through inhalation.

6.6 Potential Exposure Pathways – Off-Site

The potential off-site migration of site contaminants is not expected to result in a complete exposure pathway during current, construction and remediation, or future conditions for the following reasons:

- The site is located in an urban area and a majority of the site is paved and surrounded by fencing and access is limited.
- The following protective measures will be implemented during remedial construction:
 - Continuous air monitoring will be conducted for particulates (i.e., dust) and VOCs during intrusive activities in accordance with a CAMP. Dust and/or vapor suppression techniques will be employed to limit potential for off-site migration of soil and vapors.
 - Vehicle tires and undercarriages will be washed as necessary prior to leaving the site to prevent tracking material off-site.
 - A soil erosion/sediment control plan will be implemented during construction to control runoff and off-site migration of soil or sediment.
- Groundwater in New York City is not used as a potable water source and the nearest ecological receptor, the Gowanus Canal, is located about 350 feet southeast of the site. On-site contaminant sources will be removed as part of the proposed development.
- The new construction will include a waterproofing/vapor barrier installed beneath the slab and extending up vertical foundation walls to at least sidewalk grade. After construction, continuous impervious covers consisting of concrete building slabs or concrete pavers will cover the majority of the site. Landscaped areas (if any) will have at least two feet of clean fill material above a demarcation barrier.

6.7 Evaluation of Human Health Exposure

Based on the CSM and review of environmental data, complete on-site exposure pathways appear to be present, in the absence of protective measures and remediation. The complete exposure pathways indicate there is a risk of exposure to humans from site contaminants via exposure to soil, groundwater, and soil vapor for current and construction conditions.

Complete exposure pathways have the following five elements: 1) a contaminant source; 2) a contaminant release and transport mechanism; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. A discussion of the five elements comprising a complete pathway as they pertain to the site is provided below.

6.7.1 Current Conditions

Most of the site is currently covered by impervious surfaces (concrete building slabs). Human exposure to contaminated soil through dermal absorption, inhalation, and ingestion is minimal and controlled through the presence of the impervious surface. There are limited areas where an impervious surface is not present (gravel and grass covered areas). The site is also fenced with only authorized guests having access. In localized areas where human exposure to contaminated soil is possible, the potential exposure pathway for dermal absorption, inhalation and ingestion is controlled by limiting site access and through implementation of a HASP by those handling site media (i.e., investigation and remediation activities).

Because groundwater in New York City is not used as a potable water source, there is no complete exposure pathway under current site conditions. There is a potential exposure pathway through dermal absorption, inhalation, and ingestion during investigate groundwater sampling or construction dewatering, but it is controlled by limiting site access and through the implementation of the HASP during ground-intrusive work.

Because the site has several enclosed spaces, exposure pathways for soil vapor intrusion do exist. TCE was detected in one sub-slab vapor sample (SSV20_111122) above the minimum concentration at which mitigation is recommended as set forth in the NYSDOH Guidance. The site is currently vacant and site access is restricted to the public. Existing buildings will be demolished prior to remedial construction. Any remaining potential exposure pathways through dermal absorption and inhalation are controlled by limiting site access and through the implementation of a HASP by those with access.

6.7.2 Remedial Construction Activities

During remedial construction, points of exposure include disturbed and exposed soil during excavation and dust and organic vapors generated during soil excavation and off-site disposal. Routes of exposure include ingestion and dermal absorption of contaminated soil, inhalation of organic vapors arising from contaminated soil, and inhalation of dust arising from contaminated soil. The receptor population includes construction and remediation workers and, to a lesser extent, the public adjacent to the site.

The potential for completed exposure pathways is present because all five elements exist; however, the risk will be minimized by limiting site access and through implementation of appropriate health and safety measures, such as monitoring the air for organic vapors and dust,

using vapor and dust suppression measures, cleaning truck undercarriages before they leave the site to prevent off-site soil tracking, maintaining site security, and wearing the appropriate PPE.

6.7.3 Proposed Future Conditions

After construction, residual contaminants may remain on-site if a Track 1 remedy is not achieved, and to a lesser extent, would include those listed under current conditions. Contaminant release and transport mechanisms include penetrations through the building foundations and any remaining exposed soil. If protective measures and remediation are not implemented, points of exposure include potential cracks in the proposed building foundation and exposure during any future soil-disturbing activities. Routes of exposure may include inhalation of vapors entering the buildings or dust during any soil-disturbing work. The receptor population includes the building tenants, employees, visitors, and maintenance workers. The possible routes of exposure can be avoided or mitigated by soil vapor mitigation measures, construction and maintenance of a composite cover system (i.e., concrete or at least two feet of clean soil), and implementation of a Site Management Plan.

6.7.4 Human Health Exposure Assessment Conclusions

1. Under current conditions, there is a marginal risk for exposure. The primary exposure pathways are for dermal contact, ingestion and inhalation of soil, groundwater, or soil vapor by site construction and remediation workers. The exposure risks can be avoided or minimized by limiting site access and implementing the appropriate health and safety and vapor and dust suppression measures outlined in a site-specific HASP and CAMP during ground-intrusive activities.
2. In the absence of protective measures, there is a moderate risk of exposure during the construction and remediation activities. The primary exposure pathways are:
 - a. Dermal contact, ingestion and inhalation of contaminated soil, groundwater, or soil vapor by site visitors and construction and remediation workers
 - b. Dermal contact, ingestion and inhalation of soil (dust) and inhalation of soil vapor by the community in the vicinity of the site

These exposure pathways can be avoided or minimized by performing community air monitoring and by following the appropriate health and safety plans, implementing vapor and dust suppression techniques, and using site security to control access.

3. A complete exposure pathway is possible for the migration of site contaminants to off-site human receptors during the remedial construction phase. During this phase, site access will be limited to authorized visitors and workers and protective measures will be

used during construction to prevent completion of this pathway, including following a site-specific HASP and implementation of a CAMP.

4. The existence of a complete exposure pathway for site contaminants to human receptors during proposed future conditions is unlikely, as engineering and institutional controls (ECs and ICs) will be implemented in the absence of a Track 1 remedy. If a Track 1 remedy is not achieved, residual site soil will be capped by a composite cover (e.g., concrete building slab, two feet of clean soil). Regional groundwater is not used as a potable water source in this part of New York City. As needed, dewatered groundwater fluids will be pre-treated and discharged off site in accordance with appropriate permits. The construction of engineering controls including the building foundation slab and the installation of a waterproofing/vapor barrier membrane will mitigate the exposure pathway of VOCs in soil vapor through inhalation.

7.0 NATURE AND EXTENT OF CONTAMINATION

This section evaluates the nature and extent of soil, groundwater, and soil vapor contamination. The nature and extent of the contamination is derived from a combination of field observations and analytical data that were discussed in Section 5.0 and in Langan's September 2021 Subsurface Investigation.

7.1 Soil Contamination

Soil contamination, characterized by field observations and soil sample analytical results exceeding UU, RURR, and/or PGW SCOs, is attributed to the presence of fill and historical site uses.

7.1.1 Fill

The site-wide fill layer, predominantly consisting of dark gray to dark brown fine sand with varying proportions of silt, gravel, brick, coal, coal ash, mortar, wood construction debris, slag, concrete, wood, glass, and ceramics, was encountered to depths ranging from about 5 to 15 feet bgs. The fill layer varies and is about 11 to 15 feet bgs in the northeastern, southwestern, central parts of the site and about 5 to 10 feet bgs in the northwestern and southeastern parts of the site.

The fill layer contains SVOCs, pesticides, PCBs, metals, and PFAS at concentrations above UU, RURR SCOs, PGW SCOs, and/or PFAS Guidance Values. SVOCs, pesticides, PCBs, and metals are attributed to fill quality. There are localized metals impacts (arsenic, lead, and mercury) impacts to native soil underlying the fill layer. Pesticides, PCBs, and PFAS were not detected at concentrations above UU SCOs from below the fill layer.

7.1.2 Petroleum-Impacted Soil

The September 2021 Subsurface Investigation identified petroleum-like impacts at two soil boring locations (SB05 and SB08). Soil staining, petroleum-like odors, and elevated PID readings (maximum of 408.8 ppm) were observed from 0.5 to 1 feet bgs at SB05 and from 1 to 8 feet at SB08.

During the RI, no additional evidence of petroleum-impacts (e.g., petroleum-like staining, odors, or elevated PID readings) was observed in delineation borings. One soil sample (SB11_0-2) contained three petroleum-related SVOCs at concentrations above UU, RURR, and/or PGW SCOs and include naphthalene, phenanthrene, and pyrene, which may be attributed to former site uses or fill quality. These constituents were not detected in deeper soil samples taken from SB11 and adjacent soil borings (SB10 and SB17). Additionally, no evidence of petroleum impacts was observed in soil borings completed during the RI.

Petroleum-impacts to soil are localized and likely attributed to historical site uses as a car garage (former Lot 42) and manufacturer (former Lot 8).

7.1.3 Metals-Impacted Soil

Some metals (arsenic, copper, hexavalent chromium, lead, and mercury) may be attributed to coal and coal ash in fill or historical site uses as a painting company, waste paper and rag bailing company, brewing and bottle company, and manufacturers.

Arsenic was detected in 19 soil samples at concentrations above the UU SCO and in 17 soil samples at concentrations above the PGW and RURR SCOs. Of the 14 soil samples collected at the groundwater interface, 5 contained arsenic at concentrations above the PGW SCO (SB12_3-5, SB14_6-8, SB15_5.5-7.5, SB16_5.5-7.5, and SB20_4-6), all of which were collected from the southwestern and central parts of the site (former Lot 6 and Lot 44). Of the 14 soil samples collected from native soil layer, 1 sample contained arsenic at a concentration above the PGW SCO (SB20_10-12), which was collected from the central part of the site (former Lot 44). The maximum concentration of arsenic detected in soil during the RI was 298 mg/kg in SB20_0-2 (central part of the site; former Lot 44).

Copper was in 15 soil samples at concentrations exceeding the UU SCO and in 2 soil samples exceeding the RURR SCO. The maximum concentration of copper detected in soil during the RI was 432 mg/kg in SB11_3-5.

Hexavalent chromium was detected in three soil samples and one duplicate soil sample at concentrations exceeding the UU SCO and in one soil sample exceeding the PGW SCO. Of the 14 soil samples collected at the groundwater interface, no samples exceeded the PGW SCO. The maximum concentration of hexavalent chromium detected in soil during the RI was 25.5 mg/kg in SB16_0-2.

Mercury was detected in 22 soil samples at concentrations exceeding the UU SCO, in 8 soil samples exceeding the RURR SCO, and in 9 soil samples exceeding the PGW SCO. Of the 14 soil samples collected at the groundwater interface, 3 contained mercury at concentrations above the PGW SCO (SB10_3-5, SB13_4-6, and SB15_5.5-7.5). The maximum concentration of mercury detected in soil during the RI was 28.2 mg/kg in SB20_10-12.

Lead was detected in 23 soil samples at concentrations exceeding the UU SCO, in 16 soil samples about the RURR SCO, and in 13 soil samples exceeding the PGW SCO. Of the 14 soil samples collected at the groundwater interface, 10 contained lead at concentrations above the PGW SCO (SB10_3-5, SB11_3-5, SB12_3-5, SB13_4-6, SB14_6-8, SB15_5.5-7.5, SB16_5.5-7.5, and SB17_2-4). The maximum concentration of lead detected in soil during the RI was 1,800 mg/kg in SB10_3-5.

Arsenic, mercury, and lead were detected at concentrations exceeding the UU, RURR, and/or PGW SCOs in 5 soil samples collected from the native soil layer. The maximum depth of exceedances detected in soil were arsenic at 10 to 12 feet bgs (SB20) in the south-central part

of the site (former Lot 44), mercury at 15 to 17 feet bgs (SB17) and lead at 15 to 17 feet bgs (SB17) in the northeastern part of the site (former Lot 8).

7.2 Groundwater Contamination

Groundwater contamination, characterized by field observations and groundwater sample analytical results exceeding NYSDEC SGVs, is attributed to fill quality, historic site uses, unidentified off-site sources, and/or a regional condition.

7.2.1 Arsenic-Impacted Groundwater

Dissolved arsenic was detected in 3 groundwater samples at concentrations above the SGV (MW08_112222, MW16_112222, and MW18_112222). The maximum concentration of dissolved arsenic detected in groundwater was 98.14 µg/L at MW18_112222. Monitoring wells containing dissolved arsenic exceedances were located in the eastern, southwestern, and central parts of the site (MW08 [former Lot 42], MW16 [former Lot 6], and MW18 [former Lot 44], respectively). Arsenic impacts in groundwater generally correlate with locations where, with the exception of the eastern part of the site (MW08), arsenic was detected in soil samples collected from the groundwater interface at concentrations above the PGW SCO. Arsenic in groundwater are the result of arsenic-impacted soil within the saturated zone in the southwestern and central parts of the site.

7.2.2 PFAS- and 1,4-Dioxane-Impacted Groundwater

PFOA and/or PFOS were detected in groundwater samples above the SGVs in all monitoring wells sampled during the RI. PFOS was detected at a concentration marginally above the PGW Guidance Value in one shallow soil, SB16_0-2, located in the southwestern part of the site. PFOA was detected at a concentration marginally above the PGW Guidance Value in one shallow soil, SB22_0-2, located in the eastern part of the site.

1,4-Dioxane was detected above the SGV in four monitoring wells (MW01, MW08, MW10, and MW18) across the site. 1,4-Dioxane was not detected in any soil samples collected during the RI. No on-site source of PFAS or 1,4-dioxane was identified; therefore, presence of PFAS compounds (PFOA and PFOS) and 1,4-dioxane may be attributed to a regional condition or unidentified off-site sources.

7.3 Soil Vapor Contamination

7.3.1 Sub-Slab Vapor Analytical Results

Twenty-one VOCs were detected in two sub-slab vapor samples collected during the RI. Total VOC concentrations in sub-slab vapor samples SSV17_111122 and SSV20_111122 were 111.64 µg/m³ and 331.18 µg/m³, respectively. One VOC, TCE, was detected at a concentration at which mitigation is recommended for occupied structures by NYSDOH Decision Matrices. TCE was detected at a concentration of 69.3 µg/m³ in SSV20_111122. Total BTEX concentrations in the

sub-slab vapor samples SSV17_111122 and SSV20_111122 were 10.3 $\mu\text{g}/\text{m}^3$ and 85.63 $\mu\text{g}/\text{m}^3$, respectively. VOCs, including TCE, in sub-slab vapor at the site is likely associated with an off-site source.

8.0 CONCLUSIONS

The RI was implemented between 9 and 22 November 2022 in accordance with the NYSDEC-approved RIWP. The findings of the RI summarized herein are based on qualitative (field observations and instrumental readings) and quantitative (laboratory analytical results and modeling) data. The analytical data generated were determined to be 100% acceptable for soil groundwater, and soil vapor samples by validation. The RI findings and conclusions are as follows:

1. Stratigraphy: Site stratigraphy consists of fill underlain by native soil. Fill, predominantly consisting of dark gray to dark brown fine sand with varying proportions of silt, gravel, brick, coal, coal ash, mortar, wood construction debris, slag, asphalt, concrete, wood, glass, metal and ceramics was encountered from site grade (beneath surface cover) to depths ranging from about 5 to 15 feet bgs. The fill layer is deeper in the northeastern, southwestern, central parts of the site (about 11 to 15 feet bgs), and shallower in the northwestern and southeastern parts of the site (about 5 to 10 feet bgs). Fill is underlain by a layer of fine to medium grained sand with varying amounts of silt and gravel. The thickness of the sand layer ranges from about 2 to 7 feet across the site. An impermeable organic clay layer with varying amounts of fibrous vegetation (marsh deposits) is below the sand layer. The top of the organic clay layer was found between about 10.5 and 20 feet bgs and was about 7 to 18.5 feet thick.
2. Hydrogeology: Groundwater depth at the site ranges from 2.5 to 7 feet bgs, based on observations from the RI and September 2021 Subsurface Investigation. Synoptic groundwater depth measurements were collected on 15 December 2022 from seven monitoring wells (MW01, MW08, MW10, MW13, MW16, MW18, and MW23). Depth to groundwater ranged from about 3.5 feet bgs in MW23 to 7 feet bgs in MW13 (about el 3.20 to 4.21 [NAVD88]). Based on the well gauging results, groundwater appears to flow north. Regional groundwater flow is expected to be to the east towards Gowanus Canal. Tidal influence, underground utilities, and other subsurface structures may locally influence the direction of groundwater flow.
3. Fill: Fill was encountered in all soil borings from surface grade to depths ranging from about 5 to 15 feet bgs. The fill layer contains SVOCs, pesticides, PCBs, metals and PFAS at concentrations above UU, RURR, and/or PGW SCOs. SVOCs, pesticides, total PCBs and some metals (barium, cadmium, trivalent chromium, nickel, selenium, and zinc) are attributed to fill quality. Arsenic, copper, lead, hexavalent chromium, and mercury in soil may also be attributable to fill quality or historical site uses. There are localized arsenic, lead, and mercury impacts to native soil underlying the fill layer.. Pesticides, PCBs and PFAS were not detected at concentrations above UU SCOs below the fill layer.
4. Petroleum Impacts to Soil: During the September 2021 Subsurface Investigation, petroleum-like impacts were identified at two soil boring locations (SB05 and SB08).

During the RI, no evidence of petroleum-impacts (e.g., petroleum-like staining, odors, or elevated PID readings) was observed in the soil borings. One soil sample (SB11_0-2) contained three petroleum-related SVOCs at concentrations above UU, RURR, and/or PGW SCOs and include naphthalene, phenanthrene, and pyrene, which may be attributed to former site use or fill quality. These constituents were not detected in deeper soil samples taken from SB11 and adjacent soil borings (SB10 and SB17). Petroleum-impacts in soil are localized and likely attributed to historical site use as a car garage (former Lot 42) and manufacturer (former Lot 8).

5. Metals Impacts to Soil: Arsenic, copper, lead, and mercury was detected at concentrations above UU, RURR, and/or PGW SCOs in 15 or more soil samples across the site. Hexavalent chromium was detected 3 soil samples at concentrations exceeding the UU SCO and in 1 soil sample exceeding the PGW SCO. These metals may be attributed to coal and coal ash in fill or the historical usage of former Lot 44 (painting company, mattress and quilt manufacturer, waste paper and rag bailing company, and a brewing and bottle company). Arsenic, mercury, and lead were identified at concentrations exceeding UU, RURR, and/or PGW SCOs in native soil samples collected below the fill layer at three soil borings (SB13, SB17, and SB20). The maximum depth of exceedances detected in soil were arsenic at 10-12 feet bgs (SB20), mercury at 15-17 feet bgs (SB17), and lead at 15-17 feet bgs (SB17).
6. Arsenic Impacts to Groundwater: Dissolved arsenic was detected in 3 groundwater samples at concentrations above the SGV (MW08_112222, MW16_112222, and MW18_112222). The maximum concentration of dissolved arsenic detected in groundwater was 98.14 µg/L at MW18_112222. Monitoring wells containing dissolved arsenic exceedances were located in the eastern, southwestern, and central parts of the site (MW08 [former Lot 42], MW16 [former Lot 6], and MW18 [former Lot 44], respectively). Arsenic impacts in groundwater generally correlate with locations where, with the exception of the eastern part of the site (MW08), arsenic was detected in soil samples collected from the groundwater interface at concentrations exceeding the PGW SCO. Arsenic impacts in groundwater are the result of arsenic-impacted soil within the saturated zone in the southwestern and central parts of the site.
7. PFAS and 1,4-Dioxane in Groundwater: PFAS- and 1,4-dioxane-impacted groundwater was identified at the site. PFOA and/or PFOS were detected in groundwater samples above the SGVs in all monitoring wells sampled during the RI. 1,4-Dioxane was detected at concentrations above the SGV in four monitoring wells (MW01, MW08, MW10, and MW18) across the site. No on-site source of PFOA, PFOS, or 1,4-dioxane was identified;

therefore, the presence of PFAS compounds (PFOA, PFOS) and 1,4-dioxane is likely a regional condition or an off-site source, and not attributed to an on-site source.

8. Chlorinated and Petroleum VOCs in Soil Vapor: Twenty-one VOCs were detected in two sub-slab vapor samples collected during the RI. Total VOC concentrations in sub-slab vapor samples SSV17_111122 and SSV20_111122 were 111.64 $\mu\text{g}/\text{m}^3$ and 331.18 $\mu\text{g}/\text{m}^3$, respectively. One VOC, TCE, was detected in one sub-slab vapor sample at a concentration above the recommended mitigation criteria in NYSDOH Decision Matrices. TCE was detected at a concentration of 69.3 $\mu\text{g}/\text{m}^3$ in SSV20_111122. Total BTEX concentrations in the sub-slab vapor samples SSV17_111122 and SSV20_111122 were 10.3 $\mu\text{g}/\text{m}^3$ and 85.63 $\mu\text{g}/\text{m}^3$, respectively. VOCs, including TCE, in sub-slab vapor at the site is attributed to unidentified off-site sources.
9. Remedial Action Work Plan: Sufficient analytical data were gathered during the RI, together with previous studies, to establish site-specific soil cleanup levels and to develop a remedy for the site. The remedy will address impacts to the soil, groundwater, and soil vapor described in this RIR. Additional data will also be gathered during the forthcoming waste characterization investigation to further refine impacted areas. The final remedy will be described and evaluated in the forthcoming RAWP to be prepared in accordance with BCP guidelines.

9.0 REFERENCES

1. Langan, Phase I ESA, dated 9 December 2021.
2. Langan, Subsurface Investigation Letter Report, dated 1 November 2022.
3. Langan, Geotechnical Engineering Report, dated 11 March 2022.
4. New York State Department of Environmental Conservation, Division of Environmental Remediation, Draft Brownfield Cleanup Program Guide, dated May 2004.
5. New York State Department of Environmental Conservation, DER-10 Technical Guidance for Site Investigation and Remediation, issued 3 May 2010; effective 18 June 2010.
6. New York State Department of Environmental Conservation, Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), dated November 2022.
7. New York State Department of Health, Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006.
8. New York State Department of Health, Unofficial Compilation of Codes, Rules, and Regulations of the State of New York Subpart 5-1.52, dated 16 May 2018.
9. New York State Division of Water Technical and Operational Guidance Series and published addenda dated June 1998, April 2000, June 2004, and February 2023.
10. United States Environmental Protection Agency, Low Flow Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, EQASOP-GW 001, 19 September 2017.
11. United States Fish & Wildlife Service, National Wetlands Inventory, dated 2004.
12. United States Geological Survey, Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey, dated 1994.

TABLES

Table 1
Remedial Investigation Report
Sample Summary

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Location	Sample Name	Sample Depth	Sample Date	Sample Depth	Sample Type	Laboratory Analyses	
Soil Samples							
SB10	SB10_0-2	0-2	11/10/2022	0- to 2-foot interval and greatest degree of impacts in	Grab	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, General Chemistry, PFAS	
	SB10_3-5	3-5	11/10/2022	Groundwater interface			
	SB10_11-13	11-13	11/10/2022	Top of native soil			
SB11	SB11_0-2	0-2	11/10/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB11_3-5	3-5	11/10/2022	Groundwater interface			
	SB11_11-13	11-13	11/10/2022	Top of native soil			
SB12	SB12_0-2	0-2	11/10/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB12_3-5	3-5	11/10/2022	Groundwater interface			
	SB12_11-13	11-13	11/10/2022	Top of native soil			
SB13	SB13_0-2	0-2	11/11/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB13_4-6	4-6	11/11/2022	Groundwater interface			
	SB13_10-12	10-12	11/11/2022	Top of native soil			
SB14	SB14_0-2	0-2	11/9/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB14_6-8	6-8	11/9/2022	Groundwater interface			
	SB14_13-15	13-15	11/9/2022	Top of native soil			
SB15	SB15_0-2	0-2	11/9/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB15_5.5-7.5	5.5-7.5	11/9/2022	Groundwater interface			
	SB15_15-17	15-17	11/9/2022	Top of native soil			
SB16	SB16_0-2	0-2	11/9/2022	0- to 2-foot interval and greatest degree of impacts in			QA/QC
	SBDUP01_110922	0-2	11/9/2022	-			Grab
	SB16_5.5-7.5	5.5-7.5	11/9/2022	Groundwater interface			
	SB16_11-12	11-12	11/9/2022	Top of native soil			
SB17	SB17_0-2	0-2	11/10/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB17_2-4	2-4	11/10/2022	Groundwater interface			
	SB17_15-17	15-17	11/10/2022	Top of native soil			
SB18	SB18_0-2	0-2	11/11/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB18_4-6	4-6	11/11/2022	Groundwater interface			
	SB18_11-13	11-13	11/11/2022	Top of native soil			
SB19	SB19_0-2	0-2	11/11/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB19_3-5	3-5	11/11/2022	Groundwater interface			
	SB19_11-13	11-13	11/11/2022	Top of native soil			
SB20	SB20_0-2	0-2	11/15/2022	0- to 2-foot interval and greatest degree of impacts in			
	SB20_4-6	4-6	11/15/2022	Groundwater interface			
	SB20_10-12	10-12	11/15/2022	Top of native soil			
SB21	SB21_0-2	0-2	11/14/2022	0- to 2-foot interval and greatest degree of impacts in	QA/QC		
	SBDUP02_111422	0-2	11/14/2022	-	Grab		
	SB21_4-6	4-6	11/14/2022	Groundwater interface			
	SB21_8-10	8-10	11/14/2022	Top of native soil			
SB22	SB22_0-2	0-2	11/15/2022	0- to 2-foot interval and greatest degree of impacts in	QA/QC		
	SBDUP03_111522	0-2	11/15/2022	-	Grab		
	SB22_3-5	3-5	11/15/2022	Groundwater interface			
	SB22_7-9	7-9	11/15/2022	Top of native soil			
SB23	SB23_0-2	0-2	11/14/2022	0- to 2-foot interval and greatest degree of impacts in	Grab		
	SB23_4-6	4-6	11/14/2022	Groundwater interface			
	SB23_7-9	7-9	11/14/2022	Top of native soil			
-	SBEB01_111022	-	11/10/2022	-	QA/QC	PFAS	
	SBEB02_111422		11/14/2022			VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals,	
	SBFB01_110922		11/9/2022			VOCs	
	SBFB02_111122		11/11/2022				
	SBFB03_111522		11/15/2022				
	SBTB01_110922		11/9/2022				
	SBTB02_111022		11/10/2022				
	SBTB03_111122		11/11/2022				
	SBTB04_111422		11/14/2022				
	SBTB05_111522		11/15/2022				

Table 1
Remedial Investigation Report
Sample Summary

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Location	Sample Name	Sample Depth	Sample Date	Sample Depth	Sample Type	Laboratory Analyses
Groundwater Samples						
MW01	MW01_112222	4-12	11/22/2022	Center of saturated well screen	Grab	VOCs, SVOCs, Pesticides, Herbicides, PCBs, Metals, PFAS
MW08	MW08_112222	3-12	11/22/2022			
MW10	MW10_112222	2-12	11/22/2022			
MW13	MW13_112222	2-12	11/22/2022			
MW16	MW16_112222	6-16	11/22/2022			
MW18	MW18_112222	2-12	11/22/2022			
MW23	MW23_112222	2-12	11/22/2022			
MW23	GWDUP01_112222	2-12	11/22/2022		QA/QC	VOCs
-	GWFB01_112222	-	11/22/2022	-		
	GWTB01_112222		11/22/2022			
Sub-Slab Vapor Samples						
SSV17	SSV17_111122	-	11/11/2022	Immediately below bottom of concrete slab	Grab	VOCs
SSV20	SSV20_111122	-	11/11/2022			
Ambient Air Samples						
AA01	AA01_111122	-	11/11/2022	-	Grab	VOCs

Table 2
Well Construction and Groundwater Elevation Data Summary
Remedial Investigation Report

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No. 170698601

Well ID	Date Installed	Screened Interval (feet bgs)	Top of Casing Elevation (feet NAVD88)	Date Gauged	Depth to Product (feet from TOC)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet NAVD88)
MW01	9/7/2021	4 to 12	8.63	12/15/2022	N/A	5.30	3.33
MW08	9/7/2021	3 to 12	8.18	12/15/2022	N/A	4.31	3.87
MW10	11/10/2022	2 to 12	9.64	12/15/2022	N/A	6.44	3.20
MW13	11/11/2022	2 to 12	10.57	12/15/2022	N/A	6.90	3.67
MW16	11/9/2022	6 to 16	9.41	12/15/2022	N/A	5.90	3.51
MW18	11/11/2022	2 to 12	8.54	12/15/2022	N/A	4.82	3.72
MW23	11/14/2022	2 to 12	7.77	12/15/2022	N/A	3.56	4.21

Notes:

1. bgs = below grade surface
2. TOC = top of casing
3. Elevations refer to the North American Vertical Datum of 1988 (NAVD88).
4. Monitoring well elevations are taken from a monitoring well survey prepared by Langan, dated December 15, 2022.
5. Depths to groundwater were collected during a synoptic gauging event performed on December 15, 2022.

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB10	SB10	SB10	SB11	SB11	SB11	SB11	SB12	SB12	SB12	SB13	SB13	SB13
					Sample Name	SB10_0-2	SB10_3-5	SB10_11-13	SB11_0-2	SB11_3-5	SB11_11-13	SB12_0-2	SB12_3-5	SB12_11-13	SB13_0-2	SB13_4-6	SB13_10-12	
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	
					Sample Depth	0-2	3-5	11-13	0-2	3-5	11-13	0-2	3-5	11-13	0-2	4-6	10-12	
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds																		
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00061 U	<0.00052 U	<0.00044 U	<0.00095 U	<0.00046 U	<0.00042 U	<0.00059 U	<0.00083 U	<0.00046 U	<0.00052 U	<0.00052 U	<0.00043 U	
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.00061 U	<0.00052 U	<0.00044 U	<0.00095 U	<0.00046 U	<0.00042 U	<0.00059 U	<0.00083 U	<0.00046 U	<0.00052 U	<0.00052 U	<0.00043 U	
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00061 U	<0.00052 U	<0.00044 U	<0.00095 U	<0.00046 U	<0.00042 U	<0.00059 U	<0.00083 U	<0.00046 U	<0.00052 U	<0.00052 U	<0.00043 U	
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00061 U	<0.00052 U	<0.00044 U	<0.00095 U	<0.00046 U	<0.00042 U	<0.00059 U	<0.00083 U	<0.00046 U	<0.00052 U	<0.00052 U	<0.00043 U	
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	0.0004 J	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0036 U	<0.0031 U	<0.0026 U	<0.0057 U	<0.0028 U	<0.0025 U	<0.0036 U	<0.005 U	<0.0028 U	<0.0031 U	<0.0031 U	<0.0026 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00088 U	<0.0019 U	<0.00092 U	<0.00085 U	<0.0012 U	<0.0017 U	<0.00093 U	<0.001 U	<0.001 U	<0.00086 U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	0.00041 J	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.097 U	<0.084 U	<0.07 U	<0.15 U	<0.074 U	<0.068 U	<0.095 U	<0.13 U	<0.074 U	<0.083 U	<0.083 U	<0.069 U	
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.0088 U	<0.019 U	<0.0092 U	<0.0085 U	<0.012 U	<0.017 U	<0.0093 U	<0.01 U	<0.01 U	<0.0086 U	
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
Acetone	67-64-1	0.05	0.05	100	mg/kg	<0.012 U	<0.01 U	0.03	<0.019 U	<0.0092 U	0.02	<0.012 U	<0.017 U	<0.0093 U	<0.01 U	<0.01 U	<0.0086 U	
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0049 U	<0.0042 U	<0.0035 U	<0.0076 U	<0.0037 U	<0.0034 U	<0.0047 U	<0.0066 U	<0.0037 U	<0.0041 U	<0.0041 U	<0.0034 U	
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.00061 U	<0.00052 U	<0.00044 U	<0.00095 U	<0.00046 U	<0.00042 U	<0.00059 U	<0.00083 U	<0.00046 U	<0.00052 U	<0.00052 U	<0.00043 U	
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.0021 U	<0.0021 U	<0.0017 U	
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0024 U	<0.0021 U	<0.0018 U	<0.0038 U	<0.0018 U	<0.0017 U	<0.0024 U	<0.0033 U	<0.0018 U	<0.002			

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB14	SB14	SB14	SB15	SB15	SB15	SB16	SB16	SB16	
					Sample Name	SB14_0-2	SB14_6-8	SB14_13-15	SB15_0-2	SB15_5.5-7.5	SB15_15-17	SB16_0-2	SB16_0-2	SB16_5.5-7.5	SB16_11-12
					Sample Date	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022
					Sample Depth	0-2	6-8	13-15	0-2	5.5-7.5	15-17	0-2	0-2	5.5-7.5	11-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	<0.001 U	<0.0013 U	<0.0014 U	<0.00091 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	<0.001 U	<0.0013 U	<0.0014 U	<0.00091 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0012 UJ	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	<0.001 UJ	<0.0013 UJ	<0.0014 UJ	<0.00091 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0035 U	<0.0031 UJ	<0.0029 UJ	<0.0044 UJ	<0.0039 UJ	<0.0027 UJ	<0.0031 U	<0.0038 U	<0.0042 U	<0.0027 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	<0.001 U	<0.0013 U	<0.0014 U	<0.00091 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	0.00028 J	<0.0013 U	<0.0014 U	<0.00091 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	<0.001 U	<0.0013 U	<0.0014 U	<0.00091 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	0.00035 J	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	0.00048 J	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.093 U	<0.082 U	<0.077 U	<0.12 U	<0.1 U	<0.071 U	<0.083 U	<0.1 U	<0.11 U	<0.072 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.012 U	<0.01 U	<0.0096 U	<0.015 U	<0.013 U	<0.0089 U	<0.01 U	<0.013 U	<0.014 U	<0.0091 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
Acetone	67-64-1	0.05	0.05	100	mg/kg	<0.012 U	<0.01 U	0.0055 J	<0.015 U	<0.013 U	0.02	<0.01 U	<0.013 U	<0.014 U	0.0052 J
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0046 U	<0.0041 U	<0.0038 U	<0.0059 U	<0.0052 U	<0.0035 U	<0.0041 U	<0.005 U	<0.0055 U	<0.0036 U
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	0.00065 J	0.0015	<0.00044 U	<0.00052 U	<0.00063 U	0.00034 J	<0.00045 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0046 U	<0.0041 UJ	<0.0038 UJ	<0.0059 UJ	<0.0052 UJ	<0.0035 UJ	<0.0041 U	<0.005 U	<0.0055 U	<0.0036 UJ
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.012 UJ	<0.01 U	<0.0096 U	<0.015 U	<0.013 U	<0.0089 U	<0.01 UJ	<0.013 UJ	<0.014 UJ	<0.0091 U
Carbon Tetrachloride	56-23-5	0.76	0.76	2.4	mg/kg	<0.0012 U	<0.001 U	<0.00096 U	<0.0015 U	<0.0013 U	<0.00089 U	0.00024 J	<0.0013 U	<0.0014 U	<0.00091 U
Chlorobenzene	108-90-7	1.1	1.1	100	mg/kg	<0.00058 U	<0.00051 U	<0.00048 U	<0.00074 U	<0.00064 U	<0.00044 U	<0.00052 U	<0.00063 U	<0.00069 U	<0.00045 U
Chloroethane	75-00-3	NS	NS	NS	mg/kg	<0.0023 U	<0.002 U	<0.0019 U	<0.003 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0025 U	<0.0028 U	<0.0018 U
Chloroform	67-66-3	0.37	0.37	49	mg/kg	<0.0017 U	<0.0015 U	<0.0014 U	<0.0022 U	0.00067 J	<0.00				

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB17	SB17	SB17	SB18	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB20
					Sample Name	SB17_0-2	SB17_2-4	SB17_15-17	SB18_0-2	SB18_4-6	SB18_11-13	SB19_0-2	SB19_3-5	SB19_11-13	SB20_0-2	SB20_4-6	SB20_10-12
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/15/2022	11/15/2022	11/15/2022
					Sample Depth	0-2	2-4	15-17	0-2	4-6	11-13	0-2	3-5	11-13	0-2	4-6	10-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00054 U	<0.00045 U	<0.00085 U	<0.0005 U	<0.00054 U	<0.00045 U	<0.0004 U	<0.00057 U	<0.0005 U	<0.00053 U	<0.00048 U	<0.00046 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.00054 U	<0.00045 U	<0.00085 U	<0.0005 U	<0.00054 U	<0.00045 U	<0.0004 U	<0.00057 U	<0.0005 U	<0.00053 U	<0.00048 U	<0.00046 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00054 U	<0.00045 U	<0.00085 U	<0.0005 U	<0.00054 U	<0.00045 U	<0.0004 U	<0.00057 U	<0.0005 U	<0.00053 U	<0.00048 U	<0.00046 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00054 U	<0.00045 U	<0.00085 U	<0.0005 U	<0.00054 U	<0.00045 U	<0.0004 U	<0.00057 U	<0.0005 U	<0.00053 U	<0.00048 U	<0.00046 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0032 U	<0.0027 U	<0.0051 U	<0.003 U	<0.0032 U	<0.0027 U	<0.0024 U	<0.0034 U	<0.003 U	<0.0032 U	<0.0029 U	<0.0028 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0011 U	<0.00091 U	<0.0017 U	<0.001 U	<0.0011 U	<0.0009 U	<0.00079 U	<0.0011 U	<0.00099 U	<0.001 U	<0.00095 U	<0.00093 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.086 U	<0.072 U	<0.14 U	<0.08 U	<0.086 U	<0.072 U	<0.063 U	<0.091 U	<0.08 U	<0.084 U	<0.076 U	<0.074 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.011 U	<0.0091 U	<0.017 U	<0.01 U	<0.011 U	<0.009 U	<0.0079 U	<0.011 U	<0.0099 U	<0.01 U	<0.0095 U	<0.0093 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
Acetone	67-64-1	0.05	0.05	100	mg/kg	<0.011 U	0.017	0.095	<0.01 U	0.016	<0.009 U	<0.0079 U	0.011	<0.0099 U	<0.01 U	0.012	<0.0093 U
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0043 U	<0.0036 U	<0.0068 U	<0.004 U	<0.0043 U	<0.0036 U	<0.0032 U	<0.0046 U	<0.004 U	<0.0042 U	<0.0038 U	<0.0037 U
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.00054 U	<0.00045 U	<0.00085 U	<0.0005 U	<0.00054 U	0.00017 J	<0.0004 U	<0.00057 U	<0.0005 U	<0.00053 U	<0.00048 U	<0.00046 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0021 U	<0.0018 U	<0.0034 U	<0.002 U	<0.0022 U	<0.0018 U	<0.0016 U	<0.0023 U	<0.002 U	<0.0021 U	<0.0019 U	<0.0018 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00054 U	<										

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB21	SB21	SB21	SB21	SB22	SB22	SB22	SB22	SB23	SB23	SB23
					Sample Name	SB21_0-2	SBDUP02_111422	SB21_4-6	SB21_8-10	SB22_0-2	SBDUP03_111522	SB22_3-5	SB22_7-9	SB23_0-2	SB23_4-6	SB23_7-9
					Sample Date	11/14/2022	11/14/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/15/2022	11/15/2022	11/14/2022	11/14/2022	11/14/2022
					Sample Depth	0-2	0-2	4-6	8-10	0-2	0-2	3-5	7-9	0-2	4-6	7-9
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
1,1,1-Trichloroethane	71-55-6	0.68	0.68	100	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	NS	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,1-Dichloroethane	75-34-3	0.27	0.27	26	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,1-Dichloroethene	75-35-4	0.33	0.33	100	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,1-Dichloropropene	563-58-6	NS	NS	NS	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,2,3-Trichloropropane	96-18-4	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	0.0003 J	<0.0016 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,2,4-Trimethylbenzene	95-63-6	3.6	3.6	52	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	NS	NS	mg/kg	<0.0033 U	<0.0039 U	<0.0028 U	<0.0032 U	<0.0041 U	<0.0038 U	<0.0034 U	<0.0021 U	<0.0039 U	<0.0031 U	<0.0024 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	NS	NS	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,2-Dichloroethane	107-06-2	0.02	0.02	3.1	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,2-Dichloropropane	78-87-5	NS	NS	NS	mg/kg	<0.0011 U	<0.0013 U	<0.00092 U	<0.0011 U	<0.0014 U	<0.0013 U	<0.0011 U	<0.00071 U	<0.0013 U	<0.001 U	<0.00079 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	8.4	8.4	52	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,3-Dichloropropane	142-28-9	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
1,4-Diethyl Benzene	105-05-5	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	0.00046 J	<0.0016 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.088 U	<0.1 U	<0.074 U	<0.085 U	<0.11 U	<0.1 U	<0.09 U	<0.057 U	<0.1 U	<0.082 U	<0.063 U
2,2-Dichloropropane	594-20-7	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
2-Chlorotoluene	95-49-8	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
2-Hexanone (MBK)	591-78-6	NS	NS	NS	mg/kg	<0.011 U	<0.013 U	<0.0092 U	<0.011 U	<0.014 U	<0.013 U	<0.011 U	<0.0071 U	<0.013 U	<0.01 U	<0.0079 U
4-Chlorotoluene	106-43-4	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
4-Ethyltoluene	622-96-8	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
Acetone	67-64-1	0.05	0.05	100	mg/kg	<0.011 U	<0.013 U	<0.0092 U	<0.011 U	<0.014 U	<0.013 U	<0.011 U	0.012	<0.013 U	0.013	0.011
Acrylonitrile	107-13-1	NS	NS	NS	mg/kg	<0.0044 U	<0.0052 U	<0.0037 U	<0.0043 U	<0.0055 U	<0.0051 U	<0.0045 U	<0.0028 U	<0.0052 U	<0.0041 U	<0.0031 U
Benzene	71-43-2	0.06	0.06	4.8	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
Bromobenzene	108-86-1	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
Bromochloromethane	74-97-5	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
Bromodichloromethane	75-27-4	NS	NS	NS	mg/kg	<0.00055 U	<0.00064 U	<0.00046 U	<0.00053 U	<0.00068 U	<0.00064 U	<0.00056 U	<0.00036 U	<0.00065 U	<0.00051 U	<0.00039 U
Bromoform	75-25-2	NS	NS	NS	mg/kg	<0.0044 U	<0.0052 U	<0.0037 U	<0.0043 U	<0.0055 U	<0.0051 U	<0.0045 U	<0.0028 U	<0.0052 U	<0.0041 U	<0.0031 U
Bromomethane	74-83-9	NS	NS	NS	mg/kg	<0.0022 U	<0.0026 U	<0.0018 U	<0.0021 U	<0.0027 U	<0.0026 U	<0.0022 U	<0.0014 U	<0.0026 U	<0.002 U	<0.0016 U
Carbon Disulfide	75-15-0	NS	NS	NS	mg/kg	<0.011 U	<0.013 U	<0.0092 U	<0.011 U	<0.014 U						

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB10	SB10	SB10	SB11	SB11	SB11	SB12	SB12	SB12	SB13	SB13	SB13
					Sample Name	SB10_0-2	SB10_3-5	SB11_11-13	SB11_0-2	SB11_3-5	SB11_11-13	SB12_0-2	SB12_3-5	SB12_11-13	SB13_0-2	SB13_4-6	SB13_10-12
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022
					Sample Depth	0-2	3-5	11-13	0-2	3-5	11-13	0-2	3-5	11-13	0-2	4-6	10-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.027 U	<0.028 U	<0.028 U	<0.027 U	<0.027 U	<0.028 U	<0.029 U	<0.14 U	<0.029 U	<0.028 U	<0.15 U	<0.028 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.11 U	<0.11 U	<0.11 U	<0.11 U	<0.11 U	<0.11 U	<0.11 U	<0.57 U	<0.12 U	<0.11 U	<0.61 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.16 U	<0.17 U	<0.17 U	<0.16 U	<0.16 U	<0.17 U	<0.17 U	<0.86 U	<0.17 U	<0.17 U	<0.92 U	<0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	0.1 J	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.87 U	<0.89 U	<0.89 U	<0.88 U	<0.86 U	<0.89 U	<0.92 U	<4.6 U	<0.92 U	<0.91 U	<4.9 U	<0.89 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.83	0.26	<0.22 U	11	0.1 J	<0.22 U	0.56	0.68 J	0.1 J	0.085 J	0.91 J	<0.22 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	0.034 J	<0.18 U	<0.18 U	0.082 J	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.39 U	<0.4 U	<0.4 U	<0.39 U	<0.39 U	<0.4 U	<0.41 U	<2.1 U	<0.41 U	<2.2 U	<0.4 U	<0.4 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	0.12 J	0.03 J	<0.27 U	0.28	<0.26 U	<0.27 U	0.083 J	<1.4 U	<0.28 U	<0.27 U	<1.5 U	<0.27 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.47 U	<0.48 U	<0.48 U	<0.47 U	<0.47 U	<0.48 U	<0.5 U	<2.5 U	<0.5 U	<0.49 U	<2.7 U	<0.48 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.25 U	<0.26 U	<0.26 U	<0.26 U	<0.25 U	<0.26 U	<0.27 U	<1.3 U	<0.27 U	<0.26 U	<1.4 U	<0.26 U
Acenaphthene	83-32-9	20	98	100	mg/kg	2.9	0.83	<0.15 U	24	0.15	<0.15 U	1.8	1.9	0.3	0.22	1.7	<0.15 U
Acenaphthylene	208-96-8	100	107	100	mg/kg	0.44	0.24	<0.15 U	1	0.1 J	<0.15 U	0.61	0.36 J	0.036 J	0.11 J	0.22 J	<0.15 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	0.056 J	0.025 J	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
Anthracene	120-12-7	100	1000	100	mg/kg	5.1	2.5	<0.11 U	43	0.46	<0.11 U	4.9	4	0.68	0.52	3.1	<0.11 U
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	20	5.6	<0.11 U	64	1.3	0.091 J	15	8.1	1.3	1.5	4.9	<0.11 U
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	18	5.1	<0.15 U	52	1.2	0.069 J	14	8.6	1	1.3	4.1	<0.15 U
Benzo(b)fluoranthene	205-99-2	1	1.7	1	mg/kg	23	6.2	<0.11 U	58	1.4	0.078 J	16	9.9	1.2	1.6	4.6	<0.11 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	mg/kg	9.9	3	<0.15 U	26	0.81	<0.15 U	8.2	4.4	0.44	0.77	2	<0.15 U
Benzo(k)fluoranthene	207-08-9	0.8	1.7	3.9	mg/kg	4.4	2.1	<0.11 U	17	0.5	0.03 J	3.2	3.2	0.39	0.54	1.8	<0.11 U
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.58 U	<0.6 U	<0.6 U	<0.59 U	<0.58 U	<0.6 U	<0.62 U	<3.1 U	<0.62 U	<0.61 UJ	<3.3 UJ	<0.6 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.95 U	<0.19 U	<0.19 U	<1 U	<0.18 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.1							

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB14	SB14	SB14	SB15	SB15	SB15	SB16	SB16	SB16	
					Sample Name	SB14_0-2	SB14_6-8	SB14_13-15	SB15_0-2	SB15_5.5-7.5	SB15_15-17	SB16_0-2	SB16_0-2	SB16_11-12	
					Sample Date	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	
					Sample Depth	0-2	6-8	13-15	0-2	5.5-7.5	15-17	0-2	0-2	11-12	
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Semi-Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.028 U	<0.029 U	<0.027 U	<0.029 U	<0.029 U	<0.032 U	<0.028 U	<0.028 U	<0.03 U	<0.028 U
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.11 U	<0.12 U	<0.11 U	<0.12 U	<0.12 U	<0.13 U	<0.11 U	<0.11 U	<0.12 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.17 U	<0.17 U	<0.16 U	<0.18 U	<0.17 U	<0.19 U	<0.17 U	<0.17 U	<0.18 U	<0.16 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.9 U	<0.93 U	<0.88 U	<0.93 U	<0.92 U	<1 U	<0.89 U	<0.91 U	<0.95 U	<0.88 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.26	0.071 J	<0.22 U	0.46	0.36	<0.25 U	0.42	0.28	0.3	<0.22 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.4 U	<0.42 U	<0.4 U	<0.42 U	<0.42 U	<0.45 U	<0.4 U	<0.41 U	<0.43 U	<0.4 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	<0.27 U	<0.28 U	<0.26 U	0.061 J	0.039 J	<0.3 U	<0.27 U	<0.27 U	0.05 J	<0.26 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.49 U	<0.5 U	<0.48 U	<0.5 U	<0.5 U	<0.55 U	<0.48 U	<0.49 U	<0.51 U	<0.48 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.26 U	<0.27 U	<0.26 U	<0.27 U	<0.27 U	<0.29 U	<0.26 U	<0.26 U	<0.28 U	<0.26 U
Acenaphthene	83-32-9	20	98	100	mg/kg	0.38	0.14 J	<0.15 U	1.4	0.9	<0.17 U	0.18	0.18	0.69	<0.15 U
Acenaphthylene	208-96-8	100	107	100	mg/kg	0.19	0.037 J	<0.15 U	0.22	0.2	<0.17 U	0.088 J	0.1 J	0.11 J	<0.15 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	0.063 J	<0.19 U	<0.18 U	<0.19 U	0.068 J	<0.21 U	0.14 J	0.091 J	0.045 J	<0.18 U
Anthracene	120-12-7	100	1000	100	mg/kg	0.93	0.32	<0.11 U	2.8	2.2	<0.13 U	0.41	0.4	1.4	<0.11 U
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	2.9	0.59	<0.11 U	6.8	5.8	<0.13 U	1.3	1.4	3.7	<0.11 U
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	2.6	0.58	<0.15 U	6.3	5.5	<0.17 U	1.2	1.5	3.6	<0.15 U
Benzo(b)fluoranthene	205-99-2	1	1.7	1	mg/kg	3.1	0.71	<0.11 U	7.7	6.4	<0.13 U	1.6	1.8	4.2	<0.11 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	mg/kg	1.6	0.27	<0.15 U	3.7	3.1	<0.17 U	0.81	0.99	2.2	<0.15 U
Benzo(k)fluoranthene	207-08-9	0.8	1.7	3.9	mg/kg	1	0.18	<0.11 U	2.1	1.9	<0.13 U	0.43	0.48	1.3	<0.11 U
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.61 U	<0.63 U	<0.59 U	<0.63 U	<0.62 U	<0.68 U	<0.6 U	<0.62 U	<0.64 U	<0.59 U
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.19 U	<0.19 U	<0.18 U	<0.19 U	<0.19 U	<0.21 U	<0.19 U	<0.19 U	<0.2 U	<0.18 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	0.046 J	<0.44 U	<0.42 U	0.12 J	0.076 J	<0.48 U	0.048 J	0.033 J	0.071 J	<0.42 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.2 U	<0.21 U	<0.2 U	<0.21 U	<0.21 U	<0.23 U	<0.2 U	<0.2 U	<0.21 U	<0.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.17 U	<0.17 U	<0.16 U	<0.18 U	<0.17 U	<0.19 U	<0.17 U	<0.17 U	<0.18 U	<0.16 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	NS	NS	mg/kg	<0.22 U	<0.23 U	<0.22 U	<0.23 U	<0.23 U	<0.25 U	<0.22 U	<0.23 U	<0.24 U	<0.22 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	NS	NS	mg/kg	0.1 J	<0.19 U	<0.18 U	0.12 J	<0.19 U	<0.21 U	0.15 J	0.21	0.071 J	<0.18 U
Carbazole	86-74-8	NS	NS	NS	mg/kg	0.37	0.16 J	<0.18 U	1.4	0.79	<0.21 U	0.15 J	0.16 J	0.76	<0.18 U
Chrysene	218-01-9	1	1	3.9	mg/kg	2.8	0.55	<0.11 U	6.2	5.7	<0.13 U	1.3	1.5	3.5	<0.11 U
Dibenz(a,h)anthracene	53-70-3	0.33	1000	0.33	mg/kg	0.36	0.068 J	<0.11 U	0.8	0.68	<0.13 U	0.18	0.21	0.46	<0.11 U

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB17	SB17	SB17	SB18	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB20
					Sample Name	SB17_0-2	SB17_2-4	SB17_15-17	SB18_0-2	SB18_4-6	SB18_11-13	SB19_0-2	SB19_3-5	SB19_11-13	SB20_0-2	SB20_4-6	SB20_10-12
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/15/2022	11/15/2022	11/15/2022
					Sample Depth	0-2	2-4	15-17	0-2	4-6	11-13	0-2	3-5	11-13	0-2	4-6	10-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.03 U	<0.03 U	<0.032 U	<0.029 U	<0.031 U	<0.027 U	<0.028 U	<0.03 U	<0.028 U	<0.3 UJ	<0.031 UJ	<0.029 UJ
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.11 U	<1.2 U	<0.12 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.19 U	<0.16 U	<0.17 U	<0.18 U	<0.17 U	<1.8 U	<0.19 U	<0.17 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.97 U	<0.95 U	<1 U	<0.93 U	<1 U	<0.88 U	<0.9 U	<0.96 U	<0.89 U	<9.6 U	<1 U	<0.92 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	0.049 J	<0.24 U	<0.26 U	<0.23 U	<0.25 U	<0.22 U	0.024 J	<0.24 U	<0.22 U	1.8 J	0.05 J	<0.23 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.44 U	<0.43 U	<0.47 U	<0.42 U	<0.45 U	<0.4 U	<0.4 U	<0.43 U	<0.4 U	<4.3 U	<0.45 U	<0.41 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	<0.29 U	<0.28 U	<0.31 U	<0.28 U	<0.3 U	<0.26 U	<0.27 U	<0.29 U	<0.27 U	<2.9 U	<0.3 U	0.13 J
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.52 U	<0.52 U	<0.56 U	<0.51 U	<0.54 U	<0.48 U	<0.49 U	<0.52 U	<0.48 U	<5.2 U	<0.54 U	<0.5 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 UJ	<0.21 UJ	<0.19 UJ
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.28 U	<0.28 U	<0.3 U	<0.27 U	<0.29 U	<0.26 U	<0.26 U	<0.28 U	<0.26 U	<2.8 U	<0.29 U	<0.27 U
Acenaphthene	83-32-9	20	98	100	mg/kg	0.19	<0.16 U	0.025 J	<0.16 U	<0.17 U	<0.15 U	0.061 J	<0.16 U	<0.15 U	5.5	0.1 J	0.02 J
Acenaphthylene	208-96-8	100	107	100	mg/kg	0.1 J	<0.16 U	<0.17 U	<0.16 U	<0.17 U	<0.15 U	0.046 J	<0.16 U	<0.15 U	2.2	<0.16 U	<0.15 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
Anthracene	120-12-7	100	1000	100	mg/kg	0.39	0.049 J	0.063 J	<0.12 U	<0.12 U	<0.11 U	0.19	<0.12 U	<0.11 U	9.8	0.16	<0.11 U
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	1.4	0.19	0.38	0.033 J	0.028 J	<0.11 U	0.46	<0.12 U	<0.11 U	16	0.27	0.083 J
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	1.3	0.17	0.39	<0.16 U	<0.17 U	<0.15 U	0.47	<0.16 U	<0.15 U	17	0.3	0.075 J
Benzo(b)fluoranthene	205-99-2	1	1.7	1	mg/kg	1.5	0.2	0.43	0.035 J	<0.12 U	<0.11 U	0.53	<0.12 U	<0.11 U	18	0.32	0.08 J
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	mg/kg	0.9	0.071 J	0.24	<0.16 U	<0.17 U	<0.15 U	0.21	<0.16 U	<0.15 U	8.5	<0.16 U	<0.15 U
Benzo(k)fluoranthene	207-08-9	0.8	1.7	3.9	mg/kg	0.44	0.065 J	0.16	<0.12 U	<0.12 U	<0.11 U	0.18	<0.12 U	<0.11 U	7	0.11 J	<0.11 U
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.65 U	<0.64 U	<0.7 U	<0.63 UJ	<0.67 UJ	<0.59 UJ	<0.61 UJ	<0.65 UJ	<0.6 UJ	<6.5 UJ	<0.67 UJ	<0.62 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.22 U	<0.19 U	<0.21 U	<0.18 U	<0.19 U	<0.2 U	<0.18 U	<2 U	<0.21 U	<0.19 U
Benzyl Butyl Phthalate	85-68-7																

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB21	SB21	SB21	SB21	SB22	SB22	SB22	SB22	SB23	SB23	SB23
					Sample Name	SB21_0-2	SB21_8-10	SB21_4-6	SB21_8-10	SB22_0-2	SB22_0-2	SB22_3-5	SB22_7-9	SB23_0-2	SB23_4-6	SB23_7-9
					Sample Date	11/14/2022	11/14/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/15/2022	11/15/2022	11/14/2022	11/14/2022	11/14/2022
					Sample Depth	0-2	0-2	4-6	8-10	0-2	0-2	3-5	7-9	0-2	4-6	7-9
Unit																
Result																
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.1	0.1	13	mg/kg	<0.028 UJ	<0.028 UJ	<0.028 UJ	<0.028 UJ	<0.026 UJ	<0.026 UJ	<0.03 UJ	<0.029 UJ	<0.028 UJ	<0.029 UJ	<0.028 UJ
2,4,5-Trichlorophenol	95-95-4	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	NS	mg/kg	<0.11 U	<0.11 U	<0.11 U	<0.11 U	<0.1 U	<0.1 U	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.11 U
2,4-Dichlorophenol	120-83-2	NS	NS	NS	mg/kg	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.16 U	<0.17 U	<0.18 U	<0.17 U	<0.17 U	<0.17 U	<0.16 U
2,4-Dimethylphenol	105-67-9	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2,4-Dinitrophenol	51-28-5	NS	NS	NS	mg/kg	<0.9 U	<0.89 U	<0.89 U	<0.91 U	<0.83 U	<0.85 U	<0.95 U	<0.92 U	<0.91 U	<0.93 U	<0.88 U
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2,6-Dinitrotoluene	606-20-2	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2-Chloronaphthalene	91-58-7	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2-Chlorophenol	95-57-8	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2-Methylnaphthalene	91-57-6	NS	NS	NS	mg/kg	<0.22 U	0.023 J	<0.22 U	<0.23 U	0.059 J	0.083 J	<0.24 U	<0.23 U	<0.23 U	<0.23 U	<0.22 U
2-Methylphenol (o-Cresol)	95-48-7	0.33	0.33	100	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2-Nitroaniline	88-74-4	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
2-Nitrophenol	88-75-5	NS	NS	NS	mg/kg	<0.41 U	<0.4 U	<0.4 U	<0.41 U	<0.37 U	<0.38 U	<0.43 U	<0.41 U	<0.41 U	<0.42 U	<0.4 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	0.33	0.33	100	mg/kg	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.25 U	<0.25 U	<0.28 U	<0.28 U	<0.27 U	<0.28 U	<0.26 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
3-Nitroaniline	99-09-2	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	NS	NS	mg/kg	<0.49 U	<0.48 U	<0.48 U	<0.49 U	<0.45 U	<0.46 U	<0.52 U	<0.5 U	<0.5 U	<0.5 U	<0.48 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
4-Chloro-3-Methylphenol	59-50-7	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
4-Chloroaniline	106-47-8	NS	NS	NS	mg/kg	<0.19 UJ	<0.18 UJ	<0.18 UJ	<0.19 UJ	<0.17 UJ	<0.18 UJ	<0.2 UJ	<0.19 UJ	<0.19 UJ	<0.19 UJ	<0.18 UJ
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
4-Nitroaniline	100-01-6	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
4-Nitrophenol	100-02-7	NS	NS	NS	mg/kg	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.24 U	<0.25 U	<0.28 U	<0.27 U	<0.27 U	<0.27 U	<0.26 U
Acenaphthene	83-32-9	20	98	100	mg/kg	0.022 J	0.036 J	<0.15 U	<0.15 U	0.21	0.26	<0.16 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U
Acenaphthylene	208-96-8	100	107	100	mg/kg	<0.15 U	<0.15 U	<0.15 U	<0.15 U	0.12 J	0.12 J	<0.16 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U
Acetophenone	98-86-2	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
Anthracene	120-12-7	100	1000	100	mg/kg	0.049 J	0.2	<0.11 U	<0.11 U	0.51	0.59	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.11 U
Benzo(a)anthracene	56-55-3	1	1	1	mg/kg	0.39 J	0.78 J	0.024 J	<0.11 U	1.2	1.5	0.042 J	<0.11 U	0.026 J	<0.12 U	<0.11 U
Benzo(a)pyrene	50-32-8	1	22	1	mg/kg	0.58 J	1 J	<0.15 U	<0.15 U	1.3	1.6	<0.16 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U
Benzo(b)fluoranthene	205-99-2	1	1.7	1	mg/kg	0.68	1	<0.11 U	<0.11 U	1.5	1.9	0.045 J	<0.11 U	<0.11 U	<0.12 U	<0.11 U
Benzo(g,h,i)Perylene	191-24-2	100	1000	100	mg/kg	0.36	0.54	<0.15 U	<0.15 U	0.7	0.92	<0.16 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U
Benzo(k)fluoranthene	207-08-9	0.8	1.7	3.9	mg/kg	0.24 J	0.46 J	<0.11 U	<0.11 U	0.4 J	0.6 J	<0.12 U	<0.11 U	<0.11 U	<0.12 U	<0.11 U
Benzoic Acid	65-85-0	NS	NS	NS	mg/kg	<0.61 UJ	<0.6 UJ	<0.6 UJ	<0.62 UJ	<0.56 UJ	<0.57 UJ	<0.64 UJ	<0.62 UJ	<0.62 UJ	<0.62 UJ	<0.6 UJ
Benzyl Alcohol	100-51-6	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
Benzyl Butyl Phthalate	85-68-7	NS	NS	NS	mg/kg	<0.19 U	<0.18 U	<0.18 U	<0.19 U	<0.17 U	<0.18 U	<0.2 U	<0.19 U	<0.19 U	<0.19 U	<0.18 U
Biphenyl (Diphenyl)	92-52-4	NS	NS	NS	mg/kg	<0.43 U	<0.42 U	<0.42 U	<0.43 U	<0.39 U	0.028 J	<0.45 U	<0.44 U	<0.44 U	<0.44 U	<0.42 U
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	mg/kg	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.19 U	<0.21 U	<0.21 U	<0.2 U	<0.21 U	<0.2 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	NS	NS	mg/kg	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.16 U	<					

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB10	SB10	SB10	SB11	SB11	SB11	SB11	SB12	SB12	SB12	SB13	SB13	SB13
					Sample Name	SB10_0-2	SB10_3-5	SB10_11-13	SB11_0-2	SB11_3-5	SB11_11-13	SB12_0-2	SB12_3-5	SB12_11-13	SB13_0-2	SB13_4-6	SB13_10-12	
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	
					Sample Depth	0-2	3-5	11-13	0-2	3-5	11-13	0-2	3-5	11-13	0-2	4-6	10-12	
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Pesticides																		
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	0.00105 J	0.00152 J	<0.00171 U	0.000866 J	0.000955 J	<0.00182 U	<0.00172 U	<0.00196 U	<0.00177 U	
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	0.00739 J	0.00229 J	<0.00171 U	0.00767 J	0.00614 J	<0.00182 U	0.0492 J	0.00106 J	<0.00177 U	
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	0.017	0.00743 J	<0.00171 U	0.0267	0.0217	<0.00182 U	0.075 J	<0.00196 UJ	<0.00177 UJ	
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 UJ	<0.00196 UJ	<0.00177 UJ	
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.000709 U	<0.000747 U	<0.00074 U	<0.000704 U	<0.000712 U	<0.000712 U	<0.000752 U	<0.000757 U	<0.000758 U	<0.000718 U	<0.000815 U	<0.000736 U	
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00213 U	<0.00224 U	<0.00222 U	0.00274	0.0009 J	<0.00214 U	0.00512	0.00352	<0.00227 U	1.8 J	0.0116 J	<0.00221 UJ	
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 UJ	<0.00196 UJ	<0.00177 UJ	
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 U	<0.00196 U	<0.00177 U	
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 UJ	<0.00196 UJ	<0.00177 UJ	
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0142 U	<0.0149 U	<0.0148 U	<0.0141 U	<0.0142 U	<0.0142 U	0.0449	<0.0151 U	<0.0152 U	14.5 J	0.0447	<0.0147 U	
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 U	<0.00196 U	<0.00177 U	
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.00106 U	<0.00112 U	<0.00111 U	<0.00106 U	<0.00107 U	<0.00107 U	<0.00113 U	<0.00114 U	<0.00114 U	<0.00108 UJ	<0.00122 UJ	<0.00111 UJ	
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.000709 U	<0.000747 U	<0.00074 U	<0.000704 U	0.00056 J	<0.000712 U	<0.000752 U	<0.000757 U	<0.000758 U	<0.000718 UJ	<0.000815 UJ	<0.000736 UJ	
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.000709 U	<0.000747 U	<0.00074 U	<0.000704 U	<0.000712 U	<0.000712 U	<0.000752 U	<0.000757 U	<0.000758 U	<0.000718 U	<0.000815 U	<0.000736 U	
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00213 U	<0.00224 U	<0.00222 U	<0.00211 U	<0.00214 U	<0.00214 U	<0.00225 U	<0.00227 U	<0.00227 U	<0.00216 UJ	<0.00244 UJ	<0.00221 UJ	
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.0017 U	<0.00179 U	<0.00178 U	<0.00169 U	<0.00171 U	<0.00171 U	<0.0018 U	<0.00182 U	<0.00182 U	<0.00172 UJ	<0.00196 UJ	<0.00177 UJ	
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.000709 U	<0.000747 U	<0.00074 U	<0.000704 U	<0.000712 U	<0.000712 U	<0.000752 U	<0.000757 U	<0.000758 U	<0.000718 U	<0.000815 U	<0.000736 U	
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00213 U	<0.00224 U	<0.00222 U	0.00201 J	0.00178 J	<0.00214 U	0.00485	0.0031	<0.00227 U	2.5 J	0.00536 J	<0.00221 U	
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.000851 U	<0.000896 U	<0.000888 U	<0.000846 U	<0.000855 U	<0.000855 U	<0.000902 U	<0.000908 U	<0.00091 U	0.0401 J	<0.000978 UJ	<0.000883 UJ	
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00319 U	<0.00336 U	<0.00333 U	<0.00317 U	<0.0032 U	<0.00321 U	<0.00338 U	<0.0034 U	<0.00341 U	0.0414 J	<0.00367 U	<0.00331 U	
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00319 U	<0.00336 U	<0.00333 U	<0.00317 U	<0.0032 U	<0.00321 U	<0.00338 U	<0.0034 U	<0.00341 U	<0.00323 U	<0.00367 U	<0.00331 U	
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0319 U	<0.0336 U	<0.0333 U	<0.0317 U	<0.032 U	<0.0321 U	<0.0338 U	<0.034 U	<0.0341 U	<0.0323 U	<0.0367 U	<0.0331 U	
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.179 U	<0.184 U	<0.184 U	<0.185 U	<0.183 U	<0.184 U	<0.192 U	<0.19 U	<0.191 U	<0.189 U	<0.201 U	<0.184 U	
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.179 U	<0.184 U	<0.184 U	<0.185 U	<0.183 U	<0.184 U	<0.192 U	<0.19 U	<0.191 U	<0.189 U	<0.201 U	<0.184 U	
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.179 U	<0.184 U	<0.184 U	<0.185 U	<0.183 U	<0.184 U	<0.192 U	<0.19 U	<0.191 U	<0.189 U	<0.201 U	<0.184 U	
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	0.0823	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	0.0472	0.0102 J	<0.0365 U	0.0581	0.0284 J	<0.0368 U	0.0508	0.0239 J	<0.0367 U	0.0666	<0.0391 U	<0.0362 U	
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0358 U	<0.0362 U	<0.0365 U	<0.0365 U	<0.0364 U	<0.0368 U	<0.0374 U	<0.0372 U	<0.0367 U	<0.0374 U	<0.0391 U	<0.0362 U	
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	0.0177 J	0.00643 J	<0.0365 U	0.025 J	0.0172 J	<0.0368 U	0.02 J	0.0117 J	<0.0367 U	0.026 J	<0.0391 U	<0.0362 U	
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	0.0649 J	0.0166 J	<0.0365 U	0.0831 J	0.0456 J	<0.0368 U	0.153 J	0.0356 J	<0.0367 U	0.0926 J	<0.0391 U	<0.0362 U	
Metals																		
Aluminum	7429-90-5	NS	NS	NS	mg/kg	8,580	6,040	5,010	8,610	7,640	4,620	9,770	7,250	5,080	6,120	4,420 J	3,700	
Antimony	7440-36-0	NS	NS	NS	mg/kg	3.91 J	26.7	<4.53 U	3.25 J	3.56 J	<4.29 U	2.43 J	3.08 J	<4.35 U	2.08 J	1.42 J	0.9 J	
Arsenic	7440-38-2	13	16	16	mg/kg	10.9 J	7.1											

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted-Use Residential SCOs	Location	SB14	SB14	SB14	SB15	SB15	SB15	SB16	SB16	SB16	SB16
					Sample Name	SB14_0-2	SB14_6-8	SB14_13-15	SB15_0-2	SB15_5.5-7.5	SB15_15-17	SB16_0-2	SB16_0-2	SB16_5.5-7.5	SB16_11-12
					Sample Date	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022
					Sample Depth	0-2	6-8	13-15	0-2	5.5-7.5	15-17	0-2	0-2	5.5-7.5	11-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides															
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	0.00141 J	<0.00177 U	<0.00176 U	0.00161 J	0.0089 J	<0.00196 U	0.00381 J	0.00271 J	0.000779 J	<0.0017 U
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	0.00718	<0.00177 U	<0.00176 U	0.00622	0.00796 J	<0.00196 U	0.039 J	0.0191 J	0.00133 J	<0.0017 U
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	0.026	0.0509 J	<0.00196 U	0.118 J	<0.00177 UJ	0.0184 J	<0.0017 U
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.000744 U	<0.000737 U	<0.000735 U	<0.000753 U	<0.000755 U	<0.000818 U	<0.000722 U	<0.000737 U	<0.000791 U	<0.00071 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00223 U	<0.00221 U	<0.0022 U	0.00761 J	0.00273 J	<0.00245 U	0.0124 J	0.00761 J	<0.00237 U	<0.00213 U
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	0.0562 J	<0.0147 U	<0.0147 U	0.0784 J	0.0628 J	<0.0164 U	0.132 J	0.0572 J	<0.0158 U	<0.0142 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.00112 U	<0.00111 U	<0.00111 U	<0.00113 U	<0.00113 U	<0.00123 U	<0.00108 U	<0.00111 U	<0.00119 U	<0.00106 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.000744 U	<0.000737 U	<0.000735 U	<0.000753 U	<0.000755 U	<0.000818 U	<0.000722 U	<0.000737 U	<0.000791 U	<0.00071 U
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.000744 U	<0.000737 U	<0.000735 U	<0.000753 U	<0.000755 U	<0.000818 U	<0.000722 U	<0.000737 U	<0.000791 U	<0.00071 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00223 U	<0.00221 U	<0.0022 U	<0.00226 U	<0.00227 U	<0.00245 U	<0.00217 U	<0.00221 U	<0.00237 U	<0.00213 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00179 U	<0.00177 U	<0.00176 U	<0.00181 U	<0.00181 U	<0.00196 U	<0.00173 U	<0.00177 U	<0.0019 U	<0.0017 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.000744 U	<0.000737 U	<0.000735 U	<0.000753 U	<0.000755 U	<0.000818 U	<0.000722 U	<0.000737 U	<0.000791 U	<0.00071 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	0.00721 J	<0.00221 U	<0.0022 U	0.00751	0.00688 J	<0.00245 U	0.0138 J	0.00852 J	<0.00237 U	<0.00213 U
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.000893 U	<0.000885 U	<0.000882 U	<0.000904 U	<0.000906 U	<0.000981 U	<0.000867 U	<0.000885 U	<0.000949 U	<0.000852 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	0.00382 J	<0.00332 U	<0.0033 U	<0.00339 U	<0.0034 U	<0.00368 U	0.00193 J	0.00249 J	<0.00356 U	<0.0032 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00335 U	<0.00332 U	<0.0033 U	<0.00339 U	<0.0034 U	<0.00368 U	0.00103 J	<0.00332 U	0.00454 J	<0.0032 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0335 U	<0.0332 U	<0.033 U	<0.0339 U	<0.034 U	<0.0368 U	<0.0325 U	<0.0332 U	<0.0356 U	<0.032 U
Herbicides															
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.186 U	<0.193 U	<0.182 U	<0.194 U	<0.191 U	<0.208 U	<0.184 U	<0.189 U	<0.196 U	<0.184 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.186 U	<0.193 U	<0.182 U	<0.194 U	<0.191 U	<0.208 U	<0.184 U	<0.189 U	<0.196 U	<0.184 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.186 U	<0.193 U	<0.182 U	<0.194 U	<0.191 U	<0.208 U	<0.184 U	<0.189 U	<0.196 U	<0.184 U
Polychlorinated Biphenyl															
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	0.173	0.0305 J	<0.0368 U	0.0389	0.0556	<0.0413 U	0.144	0.135	0.0216 J	<0.0358 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0367 U	<0.0373 U	<0.0368 U	<0.0373 U	<0.0371 U	<0.0413 U	<0.0361 U	<0.0362 U	<0.0393 U	<0.0358 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	0.0555	0.00664 J	<0.0368 U	0.012 J	0.0485	<0.0413 U	0.0553	0.0698	0.00654 J	<0.0358 U
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	0.229	0.0371 J	<0.0368 U	0.0509 J	0.104	<0.0413 U	0.199	0.205	0.0281 J	<0.0358 U
Metals															
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,140	4,380	2,990	5,460	5,230	6,930	4,550	6,280	5,120	3,900
Antimony	7440-36-0	NS	NS	NS	mg/kg	4.78	<4.52 U	<4.34 U	1.81 J	6.1	<4.9 U	6.98	12.8	3.57 J	<4.2 U
Arsenic	7440-38-2	13	16	16	mg/kg	60.4	36.5	3.17	21.8	34.2	4.2	29.3 J	25.6	61.5	10
Barium	7440-39-3	350	820	400	mg/kg	208	75.6	18.8	249	457	37.1	625 J	452	468	42.1
Beryllium	7440-41-7	7.2	47	72	mg/kg	<0.439 U	<0.452 U	<0.434 U	0.566 J	0.566 J	<0.49 U	0.514 J	0.861	<0.45 U	<0.42 U
Cadmium	7440-43-9	2.5	7.5	4.3	mg/kg	2.07	<0.904 U	<0.867 U	0.574 J	0.986	<0.98 U	9.92 J	2.99 J	1.37	<0.84 U
Calcium	7440-70-2	NS	NS	NS	mg/kg	20,300	6,530	720	9,570	13,400	1,570	35,000 J	24,000	49,600	1,500
Chromium, Hexavalent	18540-29-9	1	19	110	mg/kg	1.5 J	<0.938 U	<0.897 U	0.45 J	2.16 J	<1.02 U	25.5 J	4.73 J	<0.957 U	<0.887 U
Chromium, Total	7440-47-3	NS	NS	NS	mg/kg	24.8	11.3	7.34	20.1	33.7	14.4	45.8 J	51	101	11.7
Chromium, Trivalent	16065-83-1	30	NS	180	mg/kg	23.3	11.3	7.34	19.6 J	31.5	14.4	20.3 J	46.3 J	101	11.7
Cobalt	7440-48-4	NS	NS	NS	mg/kg	5.25	5.04	2.84	5.96	5.86	6.34	7.76 J	8.31	5.06	4.97
Copper	7440-50-8	50	1720	270	mg/kg	133	19.5	6.35	71.1	128	15.2	127	178	64.8	13.6
Cyanide	57-12-5-														

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB17	SB17	SB17	SB18	SB18	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB20
					Sample Name	SB17_0-2	SB17_2-4	SB17_15-17	SB18_0-2	SB18_4-6	SB18_11-13	SB19_0-2	SB19_3-5	SB19_11-13	SB20_0-2	SB20_4-6	SB20_10-12	
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/15/2022	11/15/2022	11/15/2022	
					Sample Depth	0-2	2-4	15-17	0-2	4-6	11-13	0-2	3-5	11-13	0-2	4-6	10-12	
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Pesticides																		
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	0.00119 J	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	0.000578 J	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.000798 U	<0.000791 U	<0.000841 U	0.00137	<0.000795 U	<0.000717 U	<0.000744 U	<0.000794 U	<0.000749 U	<0.000788 U	<0.000793 U	<0.000734 U	
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00239 U	<0.00237 U	<0.00252 U	<0.00235 U	<0.00238 U	<0.00215 U	<0.00223 U	<0.00238 U	<0.00225 U	<0.00236 U	<0.00238 U	<0.0022 U	
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.016 U	<0.0158 U	<0.0168 U	<0.0156 U	<0.0159 U	<0.0143 U	<0.0149 U	<0.0159 U	<0.015 U	<0.0158 U	<0.0158 U	<0.0147 U	
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.0012 U	<0.00119 U	<0.00126 U	<0.00117 U	<0.00119 U	<0.00108 U	<0.00112 U	<0.00119 U	<0.00112 U	<0.00118 U	<0.00119 U	<0.0011 U	
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.000798 U	<0.000791 U	<0.000841 U	<0.000783 U	<0.000795 U	<0.000717 U	<0.000744 U	<0.000794 U	<0.000749 U	<0.000788 U	<0.000793 U	<0.000734 U	
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.000798 U	<0.000791 U	<0.000841 U	<0.000783 U	<0.000795 U	<0.000717 U	<0.000744 U	<0.000794 U	<0.000749 U	<0.000788 U	<0.000793 U	<0.000734 U	
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00239 U	<0.00237 U	<0.00252 U	<0.00235 U	<0.00238 U	<0.00215 U	<0.00223 U	<0.00238 U	<0.00225 U	<0.00236 U	<0.00238 U	<0.0022 U	
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00192 U	<0.0019 U	<0.00202 U	<0.00188 U	<0.00191 U	<0.00172 U	<0.00179 U	<0.00191 U	<0.0018 U	<0.00189 U	<0.0019 U	<0.00176 U	
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.000798 U	<0.000791 U	<0.000841 U	<0.000783 U	<0.000795 U	<0.000717 U	<0.000744 U	<0.000794 U	<0.000749 U	<0.000788 U	<0.000793 U	<0.000734 U	
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00239 U	<0.00237 U	<0.00252 U	<0.00235 U	<0.00238 U	<0.00215 U	<0.00223 U	<0.00238 U	<0.00225 U	<0.00236 U	0.00264 J	0.00364 J	
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.000958 U	<0.000949 U	<0.00101 U	<0.000939 U	<0.000954 U	<0.00086 U	<0.000893 U	<0.000953 U	<0.000899 U	<0.000945 U	<0.000951 U	<0.000881 U	
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00359 U	<0.00356 U	<0.00379 U	<0.00352 U	<0.00358 U	<0.00322 U	<0.00335 U	<0.00357 U	<0.00337 U	<0.00354 U	<0.00357 U	<0.0033 U	
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00359 U	<0.00356 U	<0.00379 U	<0.00352 U	<0.00358 U	<0.00322 U	<0.00335 U	<0.00357 U	<0.00337 U	<0.00354 U	<0.00357 U	<0.0033 U	
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0359 U	<0.0356 U	<0.0379 U	<0.0352 U	<0.0358 U	<0.0322 U	<0.0335 U	<0.0357 U	<0.0337 U	<0.0354 U	<0.0357 U	<0.033 U	
Herbicides																		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.205 U	<0.199 U	<0.219 U	<0.195 U	<0.208 U	<0.186 U	<0.186 U	<0.206 U	<0.188 U	<0.198 U	<0.207 U	<0.187 U	
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.205 U	<0.199 U	<0.219 U	<0.195 U	<0.208 U	<0.186 U	<0.186 U	<0.206 U	<0.188 U	<0.198 U	<0.207 U	<0.187 U	
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.205 U	<0.199 U	<0.219 U	<0.195 U	<0.208 U	<0.186 U	<0.186 U	<0.206 U	<0.188 U	<0.198 U	<0.207 U	<0.187 U	
Polychlorinated Biphenyl																		
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	0.0485	0.0342 J	<0.0377 U	
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	0.00509 J	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0396 U	<0.0391 U	<0.0429 U	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	<0.0403 U	<0.041 U	<0.0377 U	
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	<0.0396 U	<0.0391 U	0.00509 J	<0.0376 U	<0.0403 U	<0.036 U	<0.0366 U	<0.04 U	<0.0377 U	0.0485	0.0342 J	<0.0377 U	
Metals																		
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,430	5,110	4,450	7,560	5,830	4,490	2,510	2,320	5,250	5,760	9,920	3,610	
Antimony	7440-36-0	NS	NS	NS	mg/kg	1.02 J	<4.73 U	<5.16 U	<4.63 U	0.422 J	<4.38 U	<4.45 U	<4.84 U	<4.5 U	0.846 J	<4.86 U	<4.44 U>	

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB21	SB21	SB21	SB21	SB22	SB22	SB22	SB22	SB23	SB23	SB23
					Sample Name	SB21_0-2	SB21_0-2	SB21_4-6	SB21_8-10	SB22_0-2	SB22_0-2	SB22_3-5	SB22_7-9	SB23_0-2	SB23_4-6	SB23_7-9
					Sample Date	11/14/2022	11/14/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/15/2022	11/15/2022	11/14/2022	11/14/2022	11/14/2022
					Sample Depth	0-2	0-2	4-6	8-10	0-2	0-2	3-5	7-9	0-2	4-6	7-9
Unit																
Result																
Pesticides																
4,4'-DDD	72-54-8	0.0033	14	13	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
4,4'-DDE	72-55-9	0.0033	17	8.9	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
4,4'-DDT	50-29-3	0.0033	136	7.9	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Aldrin	309-00-2	0.005	0.19	0.097	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.02	0.02	0.48	mg/kg	<0.000736 U	<0.000729 U	<0.000747 U	<0.000762 U	<0.000702 U	<0.000688 U	<0.000785 U	<0.000779 U	<0.000741 U	<0.000788 U	<0.000751 U
Alpha Chlordane	5103-71-9	0.094	2.9	4.2	mg/kg	<0.00221 U	<0.00219 U	<0.00224 U	<0.00228 U	<0.00211 U	<0.00206 U	<0.00236 U	<0.00234 U	<0.00222 U	<0.00236 U	<0.00225 U
Alpha Endosulfan	959-98-8	2.4	102	24	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.036	0.09	0.36	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Beta Endosulfan	33213-65-9	2.4	102	24	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Chlordane (alpha and gamma)	57-74-9	NS	NS	NS	mg/kg	<0.0147 U	<0.0146 U	<0.0149 U	<0.0152 U	<0.014 U	<0.0138 U	<0.0157 U	<0.0156 U	<0.0148 U	<0.0158 U	<0.015 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	0.25	100	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Dieldrin	60-57-1	0.005	0.1	0.2	mg/kg	<0.0011 U	<0.00109 U	<0.00112 U	<0.00114 U	<0.00105 U	<0.00103 U	<0.00118 U	<0.00117 U	<0.00111 U	<0.00118 U	<0.00112 U
Endosulfan Sulfate	1031-07-8	2.4	1000	24	mg/kg	<0.000736 U	<0.000729 U	<0.000747 U	<0.000762 U	<0.000702 U	<0.000688 U	<0.000785 U	<0.000779 U	<0.000741 U	<0.000788 U	<0.000751 U
Endrin	72-20-8	0.014	0.06	11	mg/kg	<0.000736 U	<0.000729 U	<0.000747 U	<0.000762 U	<0.000702 U	<0.000688 U	<0.000785 U	<0.000779 U	<0.000741 U	<0.000788 U	<0.000751 U
Endrin Aldehyde	7421-93-4	NS	NS	NS	mg/kg	<0.00221 U	<0.00219 U	<0.00224 U	<0.00228 U	<0.00211 U	<0.00206 U	<0.00236 U	<0.00234 U	<0.00222 U	<0.00236 U	<0.00225 U
Endrin Ketone	53494-70-5	NS	NS	NS	mg/kg	<0.00177 U	<0.00175 U	<0.00179 U	<0.00183 U	<0.00168 U	<0.00165 U	<0.00188 U	<0.00187 U	<0.00178 U	<0.00189 U	<0.0018 U
Gamma Bhc (Lindane)	58-89-9	0.1	0.1	1.3	mg/kg	<0.000736 U	<0.000729 U	<0.000747 U	<0.000762 U	<0.000702 U	<0.000688 U	<0.000785 U	<0.000779 U	<0.000741 U	<0.000788 U	<0.000751 U
Gamma Chlordane (Trans-)	5103-74-2	NS	NS	NS	mg/kg	<0.00221 U	<0.00219 U	<0.00224 U	<0.00228 U	<0.00211 U	<0.00206 U	<0.00236 U	0.00103 J	<0.00222 U	<0.00236 U	<0.00225 U
Heptachlor	76-44-8	0.042	0.38	2.1	mg/kg	<0.000883 U	<0.000875 U	<0.000896 U	<0.000914 U	<0.000843 U	<0.000826 U	<0.000942 U	<0.000935 U	<0.000889 U	<0.000945 U	<0.000901 U
Heptachlor Epoxide	1024-57-3	NS	NS	NS	mg/kg	<0.00331 U	<0.00328 U	<0.00336 U	<0.00343 U	<0.00316 U	<0.0031 U	<0.00353 U	<0.0035 U	<0.00333 U	<0.00354 U	<0.00338 U
Methoxychlor	72-43-5	NS	NS	NS	mg/kg	<0.00331 U	<0.00328 U	<0.00336 U	<0.00343 U	<0.00316 U	<0.0031 U	<0.00353 U	<0.0035 U	<0.00333 U	<0.00354 U	<0.00338 U
Toxaphene	8001-35-2	NS	NS	NS	mg/kg	<0.0331 U	<0.0328 U	<0.0336 U	<0.0343 U	<0.0316 U	<0.031 U	<0.0353 U	<0.035 U	<0.0333 U	<0.0354 U	<0.0338 U
Herbicides																
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	NS	NS	mg/kg	<0.188 U	<0.186 U	<0.19 U	<0.187 U	<0.175 U	<0.18 U	<0.198 U	<0.193 U	<0.188 U	<0.197 U	<0.189 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	NS	NS	mg/kg	<0.188 U	<0.186 U	<0.19 U	<0.187 U	<0.175 U	<0.18 U	<0.198 U	<0.193 U	<0.188 U	<0.197 U	<0.189 U
Silvex (2,4,5-Tp)	93-72-1	3.8	3.8	100	mg/kg	<0.188 U	<0.186 U	<0.19 U	<0.187 U	<0.175 U	<0.18 U	<0.198 U	<0.193 U	<0.188 U	<0.197 U	<0.189 U
Polychlorinated Biphenyl																
PCB-1016 (Aroclor 1016)	12674-11-2	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	NS	NS	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
Total PCBs	1336-36-3	0.1	3.2	1	mg/kg	<0.0371 U	<0.0373 U	<0.0377 U	<0.0368 U	<0.0336 U	<0.0355 U	<0.0391 U	<0.0389 U	<0.0382 U	<0.0382 U	<0.0379 U
Metals																
Aluminum	7429-90-5	NS	NS	NS	mg/kg	5,000 J	2,380 J	2,720	3,560	5,100	5,310	2,800	4,590	1,720	2,200	3,250
Antimony	7440-36-0	NS	NS	NS	mg/kg	<4.38 U	7.2	<4.5 U	<4.43 U	<4.19 U	<4.14 U	<4.76 U	<4.55 U	<4.49 U	<4.66 U	<4.5 U
Arsenic	7440-38-2	13	16	16	mg/kg	102 J	96.4	3.61	8.03	18.8 J	36.1 J	11.7 J	2.19	2.05	2.14	2.01
Barium	7440-39-3	350	820	400	mg/kg	64.8 J	36.1 J	20.5	23.8	44.5	47.7	22.5	36.3	14.5	21.9	28.9
Beryllium	7440-41-7	7.2	47	72	mg/kg	0.194 J	0.104 J	0.104 J	0.166 J	0.552	0.537	0.278 J	0.41 J	0.068 J	0.106 J	0.088 J
Cadmium	7440-43-9	2.5	7.5	4.3	mg/kg	<0.877 U	<0.869 U	<0.9 U	<0.886 U	0.17 J	0.147 J	<0.951 U	0.11 J	<0.898 U	<0.932 U	<0.901 U
Calcium	7440-70-2	NS	NS	NS	mg/kg	8,690 J	3,760 J	3,110	1,310	40,800	33,3					

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB10	SB10	SB10	SB11	SB11	SB11	SB12	SB12	SB12	SB13	SB13	SB13
					Sample Name	SB10_0-2	SB10_3-5	SB10_11-13	SB11_0-2	SB11_3-5	SB11_11-13	SB12_0-2	SB12_3-5	SB12_11-13	SB13_0-2	SB13_4-6	SB13_10-12
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022
					Sample Depth	0-2	3-5	11-13	0-2	3-5	11-13	0-2	3-5	11-13	0-2	4-6	10-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry																	
Total Solids	TSOLID	NS	NS	NS	Percent	91	88.7	87.6	89.6	90.4	88.6	85.5	86.3	86.5	87.6	80.6	88.7
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 UJ	<0.000504 U	<0.000595 U	<0.000515 UJ
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 UJ	<0.000504 U	<0.000595 U	<0.000515 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000257 U	<0.000255 U	<0.000255 U	<0.000266 U	<0.00026 U	<0.000269 U	<0.000271 U	<0.000269 U	<0.000281 UJ	<0.000252 U	<0.000298 U	<0.000257 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	0.000034 J	0.000032 J	<0.000511 U	0.000024 J	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	0.00013 J	0.00007 J	<0.000515 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 UJ	<0.000504 U	<0.000595 U	<0.000515 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	0.000184 J	<0.000255 U	<0.000255 U	<0.000266 U	<0.00026 U	<0.000269 U	<0.000271 U	<0.000269 UJ	<0.000281 UJ	0.000166 J	0.000193 J	<0.000257 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 UJ	0.000355 J	0.000092 J	<0.000515 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 UJ	<0.000562 UJ	<0.000504 U	<0.000595 U	<0.000515 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	0.000066 J	<0.000255 U	<0.000255 U	0.000053 J	<0.00026 U	<0.000269 U	<0.000271 U	<0.000269 U	<0.000281 UJ	0.000078 J	0.000055 J	<0.000257 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000257 U	<0.000255 U	<0.000255 U	<0.000266 U	<0.00026 U	<0.000269 U	<0.000271 U	<0.000269 U	<0.000281 UJ	<0.000252 U	<0.000298 U	<0.000257 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	0.000064 J	<0.00051 U	<0.000511 U	0.000059 J	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	0.000127 J	0.000104 J	<0.000515 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	0.000079 J	0.000096 J	<0.000255 U	<0.000266 U	0.000152 J	<0.000269 U	<0.000271 U	0.000093 J	<0.000281 UJ	<0.000252 U	<0.000298 U	<0.000257 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	<0.000504 U	<0.000595 U	<0.000515 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.0037	0.044	mg/kg	0.00168	0.00122	<0.000255 U	0.00116 J	0.00154	<0.000269 U	0.000239 J	<0.000269 UJ	0.00021 J	0.000519	0.000449	<0.000257 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	mg/kg	0.000116 J	0.000168 J	0.000066 J	0.000163 J	0.000173 J	<0.000269 U	0.000092 J	0.000128 J	0.000058 J	0.000165 J	0.000133 J	<0.000257 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	0.000091 J	0.000084 J	<0.000511 U	0.000078 J	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	0.000204 J	0.000115 J	<0.000515 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 UJ	<0.00172 U	0.000237 J	<0.000595 U	<0.00163 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	0.000259 J	0.000358 J	<0.00172 U	0.000266 J	<0.000595 U	<0.00163 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	0.000081 J	<0.00051 U	<0.000511 U	0.000077 J	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 UJ	0.000316 J	0.000264 J	<0.000515 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	<0.000504 U	<0.000595 U	<0.000515 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	NS	mg/kg	<0.000514 U	<0.00051 U	<0.000511 U	<0.000531 U	<0.00052 U	<0.000537 U	<0.000541 U	<0.000539 U	<0.000562 U	<0.000504 U	<0.000595 U	<0.000515 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.0018 J	0.00139 J	0.000066 J	0.00132 J	0.00171 J	<0.000269 U	0.000331 J	0.000723 J	0.000268 J	0.000684 J	0.000582 J	<0.000257 U

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB14	SB14	SB14	SB15	SB15	SB15	SB16	SB16	SB16	SB16
					Sample Name	SB14_0-2	SB14_6-8	SB14_13-15	SB15_0-2	SB15_5.5-7.5	SB15_15-17	SB16_0-2	SBDUP01_110922	SB16_5.5-7.5	SB16_11-12
					Sample Date	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022	11/09/2022
					Sample Depth	0-2	6-8	13-15	0-2	5.5-7.5	15-17	0-2	0-2	5.5-7.5	11-12
Unit															
Result															
General Chemistry															
Total Solids	TSOLID	NS	NS	NS	Percent	88.1	85.3	89.2	84.5	85.8	78.4	89.4	86.7	83.6	90.2
Perfluorooctanoic acids															
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000261 U	<0.000273 U	<0.000248 U	<0.000279 U	<0.000259 U	<0.000278 U	<0.00025 U	<0.000263 U	<0.000267 U	<0.000249 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000261 U	<0.000273 U	<0.000248 U	<0.000279 U	0.000157 J	<0.000278 U	0.000286	0.000284	<0.000267 U	<0.000249 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	0.000073 J	<0.000525 U	<0.000534 U	<0.000498 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000261 U	<0.000273 U	<0.000248 U	<0.000279 U	<0.000259 U	<0.000278 U	<0.00025 U	<0.000263 U	<0.000267 U	<0.000249 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000261 U	<0.000273 U	<0.000248 U	<0.000279 U	<0.000259 U	<0.000278 U	<0.00025 U	<0.000263 U	<0.000267 U	<0.000249 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000261 U	<0.000273 U	<0.000248 U	<0.000279 U	<0.000259 U	<0.000278 U	<0.00025 U	<0.000263 U	<0.000267 U	<0.000249 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.0037	0.044	mg/kg	0.000856	0.000218 J	<0.000248 U	0.000436	0.00192	<0.000278 U	0.00299	0.00372	0.000662	<0.000249 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	mg/kg	0.000064 J	0.000052 J	<0.000248 U	0.000059 J	0.000079 J	<0.000278 U	0.00012 J	0.000121 J	0.000097 J	<0.000249 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	0.000068 J	<0.000545 U	<0.000497 U	<0.000558 U	0.000055 J	<0.000557 U	0.000075 J	0.000081 J	<0.000534 U	<0.000498 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	NS	mg/kg	<0.000522 U	<0.000545 U	<0.000497 U	<0.000558 U	<0.000518 U	<0.000557 U	<0.000499 U	<0.000525 U	<0.000534 U	<0.000498 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.00092 J	0.00027 J	<0.000248 U	0.000495 J	0.002 J	<0.000278 U	0.00311 J	0.00384 J	0.000759 J	<0.000249 U

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location	SB17	SB17	SB17	SB18	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB20
					Sample Name	SB17_0-2	SB17_2-4	SB17_15-17	SB18_0-2	SB18_4-6	SB18_11-13	SB19_0-2	SB19_3-5	SB19_11-13	SB20_0-2	SB20_4-6	SB20_10-12
					Sample Date	11/10/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/15/2022	11/15/2022	11/15/2022
					Sample Depth	0-2	2-4	15-17	0-2	4-6	11-13	0-2	3-5	11-13	0-2	4-6	10-12
					Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
General Chemistry																	
Total Solids	TSOLID	NS	NS	NS	Percent	81.3	82.5	74.7	84.1	79.6	88.2	87.1	80.4	87.1	82.6	79.2	86.9
Perfluorooctanoic acids																	
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	NS	NS	mg/kg	<0.000291 U	<0.000273 U	<0.000298 U	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	<0.00029 U	<0.000304 U	<0.000269 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	NS	NS	mg/kg	0.00003 J	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	NS	NS	mg/kg	<0.000291 U	<0.000273 U	<0.000298 U	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	<0.00029 U	<0.000304 U	<0.000269 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	NS	NS	mg/kg	<0.000291 U	<0.000273 U	<0.000298 U	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	<0.00029 U	<0.000304 U	<0.000269 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	NS	NS	mg/kg	<0.000291 U	<0.000273 U	<0.000298 U	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	<0.00029 U	<0.000304 U	<0.000269 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	NS	NS	mg/kg	<0.000291 U	<0.000273 U	<0.000298 U	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	<0.00029 U	<0.000304 U	<0.000269 U
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088	0.0037	0.044	mg/kg	0.00065	0.000189 J	0.000236 J	<0.000287 U	<0.000281 U	0.000168 J	<0.000281 U	<0.000276 U	0.000281	0.000458 J	<0.000304 U	<0.000269 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066	0.0011	0.033	mg/kg	0.000416	<0.000273 U	0.000536	<0.000287 U	<0.000281 U	<0.000259 U	<0.000281 U	<0.000276 U	<0.000256 U	0.000066 J	<0.000304 U	<0.000269 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	NS	NS	mg/kg	<0.000582 U	<0.000546 U	<0.000596 U	<0.000574 U	<0.000562 U	<0.000519 U	<0.000561 U	<0.000552 U	<0.000511 U	<0.000581 U	<0.000607 U	<0.000539 U
Total PFOA and PFOS	TOTPFOAPFOS	NS	NS	NS	mg/kg	0.00107	0.000189 J	0.000772 J	<0.000287 U	<0.000281 U	0.000168 J	<0.000281 U	<0.000276 U	0.000281	0.000524 J	<0.000304 U	<0.000269 U

Table 3
Remedial Investigation Report
Soil Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Protection of Groundwater SCOs	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	Location																							
					SB21		SB21		SB21		SB21		SB22		SB22		SB22		SB23		SB23							
					Sample Name		SB21_0-2		SBDUP02_111422		SB21_4-6		SB21_8-10		SB22_0-2		SBDUP03_111522		SB22_3-5		SB22_7-9		SB23_0-2		SB23_4-6		SB23_7-9	
					Sample Date		11/14/2022		11/14/2022		11/14/2022		11/14/2022		11/15/2022		11/15/2022		11/15/2022		11/15/2022		11/14/2022		11/14/2022		11/14/2022	
					Sample Depth		0-2		0-2		4-6		8-10		0-2		0-2		3-5		7-9		0-2		4-6		7-9	
					Unit		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
General Chemistry																												
Total Solids		TSOLID	NS	NS	NS	Percent	87.6	88.9	87.3	86.9	93.9	92.1	82.4	84.9	85.9	84.5	87.7											
Perfluorooctanoic acids																												
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)		2991-50-6	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	0.000122 J	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)		2355-31-9	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorobutanesulfonic Acid (PFBS)		375-73-5	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	<0.000236 U	<0.000245 U	<0.000289 U	<0.000269 U	<0.000266 U	<0.000273 U	<0.000271 U											
Perfluorobutanoic acid (PFBA)		375-22-4	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorodecanesulfonic Acid (PFDS)		335-77-3	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorodecanoic Acid (PFDA)		335-76-2	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	<0.000236 U	<0.000245 U	<0.000289 U	<0.000269 U	<0.000266 U	<0.000273 U	<0.000271 U											
Perfluorododecanoic Acid (PFDoA)		307-55-1	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluoroheptanesulfonic Acid (PFHpS)		375-92-8	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluoroheptanoic acid (PFHpA)		375-85-9	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	<0.000236 U	<0.000245 U	<0.000289 U	<0.000269 U	<0.000266 U	<0.000273 U	<0.000271 U											
Perfluorohexanesulfonic Acid (PFHxS)		355-46-4	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	<0.000236 U	<0.000245 U	<0.000289 U	<0.000269 U	<0.000266 U	<0.000273 U	<0.000271 U											
Perfluorohexanoic Acid (PFHxA)		307-24-4	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorononanoic Acid (PFNA)		375-95-1	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	<0.000236 U	<0.000245 U	<0.000289 U	<0.000269 U	<0.000266 U	<0.000273 U	<0.000271 U											
Perfluorooctanesulfonamide (FOSA)		754-91-6	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorooctanesulfonic Acid (PFOS)		1763-23-1	0.00088	0.0037	0.044	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	0.000216 J	0.000125 J	<0.000245 U	0.000256 J	<0.000269 U	0.000624	0.000748	0.000151 J											
Perfluorooctanoic Acid (PFOA)		335-67-1	0.00066	0.0011	0.033	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	<0.000259 U	0.00129	0.00128	0.000108 J	<0.000269 U	0.000652	0.000263 J	<0.000271 U											
Perfluoropentanoic Acid (PFPeA)		2706-90-3	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorotetradecanoic Acid (PFTA)		376-06-7	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluorotridecanoic Acid (PFTrDA)		72629-94-8	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Perfluoroundecanoic Acid (PFUnA)		2058-94-8	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)		39108-34-4	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)		27619-97-2	NS	NS	NS	mg/kg	<0.000551 U	<0.000534 U	<0.000542 U	<0.000518 U	<0.000471 U	<0.00049 U	<0.000578 U	<0.000538 U	<0.000533 U	<0.000547 U	<0.000543 U											
Total PFOA and PFOS		TOTPFOAPFOS	NS	NS	NS	mg/kg	<0.000276 U	<0.000267 U	<0.000271 U	0.000216 J	0.00142 J	0.00128	0.000364 J	<0.000269 U	0.00128	0.00101 J	0.000151 J											

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Notes:

CAS - Chemical Abstract Service

NS - No standard

mg/kg - milligrams per kilogram

NA - Not analyzed

RL - Reporting limit

<RL - Not detected

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Protection of Groundwater, and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).

Soil sample analytical results are compared to the NYSDEC Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Unrestricted Use, Restricted Use Restricted-Residential, and Protection of Groundwater Guidance Values (November 2022).

Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds Unrestricted Use SCOs

10 - Result exceeds Protection of Groundwater SCOs

10 - Result exceeds Restricted Use Restricted-Residential SCOs

Table 4
Remedial Investigation Report
Groundwater Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC SGVs	Location	MW01	MW08	MW10	MW13	MW16	MW18	MW23	MW23
			Sample Name	MW01_112222	MW08_112222	MW10_112222	MW13_112222	MW16_112222	MW18_112222	MW23_112222	GW/DUP01_112222
			Sample Date	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022
			Sample Depth	4-12	3-12	2-12	2-12	6-16	2-12	2-12	2-12
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	563-58-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	<2 U	0.58 J	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,3-Dichloropropane	142-28-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
1,4-Diethyl Benzene	105-05-5	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U	<250 U
2,2-Dichloropropane	594-20-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Chlorotoluene	95-49-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-Hexanone (MBK)	591-78-6	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorotoluene	106-43-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-Ethyltoluene	622-96-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Acetone	67-64-1	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Acrylonitrile	107-13-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Benzene	71-43-2	1	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromobenzene	108-86-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromochloromethane	74-97-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Bromodichloromethane	75-27-4	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bromomethane	74-83-9	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Carbon Disulfide	75-15-0	60	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroethane	75-00-3	5	ug/l	<2.5 U	4.7	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloroform	67-66-3	7	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Chloromethane	74-87-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cymene	99-87-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Dibromochloromethane	124-48-1	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Dichlorodifluoromethane	75-71-8	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl Ether (Ethyl Ether)	60-29-7	NS	ug/l	<2.5 U	130	<2.5 U	<2.5 U	<2.5 U	1.6 J	<2.5 U	<2.5 U
Ethylbenzene	100-41-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Isopropylbenzene (Cumene)	98-82-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
M,P-Xylene	179601-23-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Methylene Chloride	75-09-2	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Naphthalene	91-20-3	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Butylbenzene	104-51-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
n-Propylbenzene	103-65-1	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Sec-Butylbenzene	135-98-8	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Styrene	100-42-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
T-Butylbenzene	98-06-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	108-88-3	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total 1,2-Dichloroethene (Cis and Trans)	540-59-0	NS	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total Xylenes	1330-20-7	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	542-75-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,4-Dichloro-2-Butene	110-57-6	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Trichloroethene (TCE)	79-01-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U	<2.5 U
Vinyl Acetate	108-05-4	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Vinyl Chloride	75-01-4	2	ug/l	<1 U	0.09 J	<1 U	<1 U	<1 U	<1 U	0.08 J	0.08 J

Table 4
Remedial Investigation Report
Groundwater Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC SGVs	Location	MW01	MW08	MW10	MW13	MW16	MW18	MW23	MW23
			Sample Name	MW01_112222	MW08_112222	MW10_112222	MW13_112222	MW16_112222	MW18_112222	MW23_112222	GWDUP01_112222
			Sample Date	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022
			Sample Depth	4-12	3-12	2-12	2-12	6-16	2-12	2-12	2-12
			Unit	Result	Result	Result	Result	Result	Result	Result	
Semi-Volatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
1,4-Dioxane (P-Dioxane)	123-91-1	0.35	ug/l	27	48.1	29.9	<0.142 U	<0.142 U	27.3	0.314	0.312
2,4,5-Trichlorophenol	95-95-4	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,4,6-Trichlorophenol	88-06-2	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dichlorophenol	120-83-2	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dimethylphenol	105-67-9	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-Dinitrophenol	51-28-5	1	ug/l	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U
2,4-Dinitrotoluene	121-14-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,6-Dinitrotoluene	606-20-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2-Chloronaphthalene	91-58-7	10	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
2-Chlorophenol	95-57-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
2-Methylnaphthalene	91-57-6	NS	ug/l	<0.1 U	0.04 J	<0.1 U	<0.1 U	<0.1 U	<0.1 U	0.11	0.08 J
2-Methylphenol (o-Cresol)	95-48-7	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2-Nitroaniline	88-74-4	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2-Nitrophenol	88-75-5	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
3,3'-Dichlorobenzidine	91-94-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
3-Nitroaniline	99-09-2	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
4-Chloro-3-Methylphenol	59-50-7	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
4-Chloroaniline	106-47-8	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
4-Nitroaniline	100-01-6	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
4-Nitrophenol	100-02-7	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Acenaphthene	83-32-9	20	ug/l	<0.1 U	0.18	0.03 J	<0.1 U	0.02 J	0.01 J	0.2	0.18
Acenaphthylene	208-96-8	NS	ug/l	<0.1 U	0.01 J	<0.1 U	<0.1 U	<0.1 U	<0.1 U	0.01 J	<0.1 U
Acetophenone	98-86-2	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Anthracene	120-12-7	50	ug/l	0.04 J	0.09 J	0.04 J	<0.1 U	0.05 J	0.02 J	0.08 J	0.08 J
Benzo(a)anthracene	56-55-3	0.002	ug/l	<0.1 U	<0.1 U	0.1 J	<0.1 U	0.12 J	<0.1 U	0.12 J	0.1 J
Benzo(a)pyrene	50-32-8	0	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	0.1 J	<0.1 U	<0.1 U	<0.1 U
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	0.12	<0.1 U	0.11	<0.1 U
Benzo(g,h,i)Perylene	191-24-2	NS	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Benzoic Acid	65-85-0	NS	ug/l	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U	<50 U
Benzyl Alcohol	100-51-6	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Benzyl Butyl Phthalate	85-68-7	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Biphenyl (Diphenyl)	92-52-4	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-chloroethoxy) methane	111-91-1	5	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-chloroisopropyl) ether	108-60-1	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	ug/l	<3 U	<3 U	<3 U	<3 U	<3 U	<3 U	<3 U	<3 U
Carbazole	86-74-8	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Chrysene	218-01-9	0.002	ug/l	<0.1 U	0.03 J	0.06 J	0.02 J	0.08 J	0.02 J	0.09 J	0.06 J
Dibenz(a,h)anthracene	53-70-3	NS	ug/l	<0.1 U	<0.1 U	<0.1 U	0.13 J	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Dibenzofuran	132-64-9	NS	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Dibutyl phthalate	84-74-2	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl phthalate	84-66-2	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Dimethyl phthalate	131-11-3	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Diethyl phthalate	117-84-0	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Fluoranthene	206-44-0	50	ug/l	0.02 J	0.21	0.15	0.02 J	0.19	0.03 J	0.2	0.18
Fluorene	86-73-7	50	ug/l	<0.1 U	0.12	0.02 J	<0.1 U	0.02 J	<0.1 U	0.17	0.14
Hexachlorobenzene	118-74-1	0.04	ug/l	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Hexachlorocyclopentadiene	77-47-4	5	ug/l	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U	<20 U
Hexachloroethane	67-72-1	5	ug/l	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Isophorone	78-59-1	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Naphthalene	91-20-3	10	ug/l	<0.1 U	0.08 J	<0.1 U	<0.1 U	<0.1 U	<0.1 U	0.42	0.4
Nitrobenzene	98-95-3	0.4	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
n-Nitrosodiphenylamine	86-30-6	50	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Pentachlorophenol	87-86-5	1	ug/l	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U
Phenanthrene	85-01-8	50	ug/l	0.02 J	0.34	0.06 J	<0.1 U	0.12	0.03 J	0.29	0.28
Phenol	108-95-2	1	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Pyrene	129-00-0	50	ug/l	0.02 J	0.15	0.13	<0.1 U	0.17	0.02 J	0.16	0.15

Table 4
Remedial Investigation Report
Groundwater Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC SGVs	Location	MW01	MW08	MW10	MW13	MW16	MW18	MW23	MW23
			Sample Name	MW01_112222	MW08_112222	MW10_112222	MW13_112222	MW16_112222	MW18_112222	MW23_112222	GW DUP01_112222
			Sample Date	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022
			Sample Depth	4-12	3-12	2-12	2-12	6-16	2-12	2-12	2-12
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides											
4,4'-DDD	72-54-8	0.3	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	0.005 J	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
4,4'-DDE	72-55-9	0.2	ug/l	<0.029 UJ	0.008 J	<0.029 UJ	0.011 J	<0.029 UJ	0.009 J	<0.029 UJ	<0.029 UJ
4,4'-DDT	50-29-3	0.2	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	0.006 J	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Aldrin	309-00-2	0	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Alpha Chlordane	5103-71-9	NS	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	0.018 J	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Alpha Endosulfan	959-98-8	NS	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Beta Endosulfan	33213-65-9	NS	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Chlordane (alpha and gamma)	57-74-9	0.05	ug/l	<0.143 UJ	<0.143 UJ	<0.143 UJ	0.158 J	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Dieldrin	60-57-1	0.004	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Endosulfan Sulfate	1031-07-8	NS	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Endrin	72-20-8	0	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Endrin Aldehyde	7421-93-4	5	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Endrin Ketone	53494-70-5	5	ug/l	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ	<0.029 UJ
Gamma Bhc (Lindane)	58-89-9	0.05	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Gamma Chlordane (Trans)	5103-74-2	NS	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	0.018 J	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Heptachlor	76-44-8	0.04	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Heptachlor Epoxide	1024-57-3	0.03	ug/l	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ	<0.014 UJ
Methoxychlor	72-43-5	35	ug/l	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ
Toxaphene	8001-35-2	0.06	ug/l	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ	<0.143 UJ
Herbicides											
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	35	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Silvex (2,4,5-Tp)	93-72-1	0.26	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
Polychlorinated Biphenyl											
PCB-1016 (Aroclor 1016)	12674-11-2	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	0.121	<0.071 U	<0.071 U	<0.071 U
PCB-1262 (Aroclor 1262)	37324-23-5	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
PCB-1268 (Aroclor 1268)	11100-14-4	NS	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U	<0.071 U
Total PCBs	1336-36-3	0.09	ug/l	<0.071 U	<0.071 U	<0.071 U	<0.071 U	0.121	<0.071 U	<0.071 U	<0.071 U

Table 4
Remedial Investigation Report
Groundwater Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDEC SGVs	Location	MW01	MW08	MW10	MW13	MW16	MW18	MW23	MW23
			Sample Name	MW01_112222	MW08_112222	MW10_112222	MW13_112222	MW16_112222	MW18_112222	MW23_112222	GW DUP01_112222
			Sample Date	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022	11/22/2022
			Sample Depth	4-12	3-12	2-12	2-12	6-16	2-12	2-12	2-12
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Metals - Dissolved											
Aluminum	7429-90-5	NS	ug/l	11.2	6.15 J	11.5	8.99 J	27.5	6.47 J	6.33 J	<10 UJ
Antimony	7440-36-0	3	ug/l	13.78	<4 U	<4 U	<4 U	4.62 J	<4 U	<4 U	<4 U
Arsenic	7440-38-2	25	ug/l	3.45	44.95	2.34	2.85	67.53	98.14	3.37	3.39
Barium	7440-39-3	1000	ug/l	283.1	449	229.8	225.4	142.8	354.4	136.9	135.3
Beryllium	7440-41-7	3	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cadmium	7440-43-9	5	ug/l	0.62	<0.2 U	<0.2 U	0.3	0.27	<0.2 U	<0.2 U	<0.2 U
Calcium	7440-70-2	NS	ug/l	133,000	103,000	122,000	118,000	204,000	232,000	47,200	46,300
Chromium, Total	7440-47-3	50	ug/l	0.27 J	0.37 J	<1 U	0.18 J	0.51 J	0.19 J	<1 U	<1 U
Cobalt	7440-48-4	NS	ug/l	1.81	0.49 J	0.45 J	1.22	0.66	0.68	<0.5 U	<0.5 U
Copper	7440-50-8	200	ug/l	14	<1 U	<1 U	4.64 J	6.65 J	<1 U	<1 U	<1 U
Iron	7439-89-6	300	ug/l	55.7	13,600	1,720	93.9	84.8	11,100	3,170	3,170
Lead	7439-92-1	25	ug/l	18.34	<1 U	<1 U	2.36	11.5	<1 U	<1 U	<1 U
Magnesium	7439-95-4	35000	ug/l	28,000	15,200	22,900	5,220	19,700	61,400	4,560	4,490
Manganese	7439-96-5	300	ug/l	387.3	878	546.4	157.1	35.27	1,120	374.1	372.3
Mercury	7439-97-6	0.7	ug/l	0.09 J	<0.2 U	<0.2 U	0.09 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	ug/l	11.17	4.03	2.41	9.17	3.59	3.05	0.71 J	0.81 J
Potassium	7440-09-7	NS	ug/l	28,300	41,400	24,700	3,450	15,700	60,600	9,510	9,330
Selenium	7782-49-2	10	ug/l	32.3	<5 U	<5 U	2.81 J	21.5	<5 U	<5 U	<5 U
Silver	7440-22-4	50	ug/l	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U
Sodium	7440-23-5	20000	ug/l	112,000	106,000	122,000	10,200	72,000	209,000	38,100	38,000
Thallium	7440-28-0	0.5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Vanadium	7440-62-2	NS	ug/l	22.8	<5 U	<5 U	<5 U	6.35	<5 U	<5 U	<5 U
Zinc	7440-66-6	2000	ug/l	360.4	<10 U	6.91 J	72.18	200.9	<10 U	<10 U	<10 U
Metals - Total											
Aluminum	7429-90-5	NS	ug/l	27.1	205	137	12,800	93.2	285	1,440 J	1,060 J
Antimony	7440-36-0	3	ug/l	14.89	0.95 J	0.63 J	3.42 J	4.67	2.04 J	0.44 J	<4 U
Arsenic	7440-38-2	25	ug/l	4.3	47.32	2.54	12.6	69.7	109.5	4.23	3.98
Barium	7440-39-3	1000	ug/l	276	490.2	231.9	452.2	138.6	354.5	146.2	146.3
Beryllium	7440-41-7	3	ug/l	<0.5 U	<0.5 U	<0.5 U	1	<0.5 U	<0.5 U	0.11 J	<0.5 U
Cadmium	7440-43-9	5	ug/l	0.65	<0.2 U	<0.2 U	1.21	0.32	<0.2 U	<0.2 U	<0.2 U
Calcium	7440-70-2	NS	ug/l	141,000	106,000	128,000	114,000	206,000	249,000	49,700	51,000
Chromium, Hexavalent	18540-29-9	50	ug/l	<10 U	3 J	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	ug/l	0.32 J	0.83 J	0.55 J	27.62	0.65 J	0.63 J	4.27 J	3.07 J
Chromium, Trivalent	16065-83-1	NS	ug/l	<10 U	<10 U	<10 U	27	<10 U	<10 U	<10 U	<10 U
Cobalt	7440-48-4	NS	ug/l	1.82	0.72	0.58	14.33	0.67	0.98	1.58	1.17
Copper	7440-50-8	200	ug/l	16.04	1.63	1.22	86.64	9.43	1.07	5.44 J	4.04 J
Cyanide	57-12-5	200	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	2 J	<5 U	<5 U
Iron	7439-89-6	300	ug/l	40.4 J	15,400	2,020	23,800	200	11,900	7,480	5,910
Lead	7439-92-1	25	ug/l	21.7	2.54	23.46	1,149	39.37	5.03	25.54 J	15.99 J
Magnesium	7439-95-4	35000	ug/l	32,900	15,000	24,200	11,600	20,000	73,100	5,330	5,300
Manganese	7439-96-5	300	ug/l	405.6	901.2	569.6	520.3	40.01	1,099	462.9	441.5
Mercury	7439-97-6	0.7	ug/l	<0.2 U	<0.2 U	<0.2 U	1.7	<0.2 U	<0.2 U	0.24 J	<0.2 U
Nickel	7440-02-0	100	ug/l	11.07	4.54	2.62	70.49	3.79	3.26	4.26	3.39
Potassium	7440-09-7	NS	ug/l	27,800	40,400	24,600	5,630	14,900	72,100	9,350	9,650
Selenium	7782-49-2	10	ug/l	35.1	<5 U	<5 U	6.96	22.7	<5 U	<5 U	<5 U
Silver	7440-22-4	50	ug/l	<0.4 U	<0.4 U	<0.4 U	0.28 J	<0.4 U	<0.4 U	<0.4 U	<0.4 U
Sodium	7440-23-5	20000	ug/l	129,000	119,000	141,000	10,700	82,000	251,000	42,300	44,200
Thallium	7440-28-0	0.5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Vanadium	7440-62-2	NS	ug/l	22.89	<5 U	<5 U	39.39	6.59	<5 U	4.66 J	3.27 J
Zinc	7440-66-6	2000	ug/l	384.3	<10 U	20.93	470.8	237.3	5.9 J	11.18	7.72 J
Perfluorooctanoic acids											
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	ug/l	<0.00201 U	0.0284	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	0.18	0.204
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	ug/l	<0.00201 U	0.012	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	<0.00192 U	<0.00192 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	ug/l	0.00675	0.00413	0.00753	0.00692	0.00706	0.00267	0.00206	0.00226
Perfluorobutanoic acid (PFBA)	375-22-4	NS	ug/l	0.0157	0.00813	0.0148	0.00741	0.0138	0.00852	0.0371	0.0359
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	ug/l	<0.00201 U	<0.00188 U	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	<0.00192 U	<0.00192 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	ug/l	0.00223	0.00201 J	0.00158 J	0.000376 J	0.000448 J	<0.00184 U	0.00164 J	0.0017 J
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	ug/l	<0.00201 U	<0.00188 U	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	<0.00192 U	<0.00192 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	ug/l	0.00191 J	0.0142	0.00112 J	<0.00186 U	<0.00191 U	0.000835 J	0.00122 J	0.00163 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	ug/l	0.0124	0.0153	0.0109	0.00319	0.0093	0.0104	0.024	0.0244
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	ug/l	0.0106 J	0.0165	0.00751	0.000673 J	0.0031	0.00486 J	0.00194	0.00181 J
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	ug/l	0.0157	0.0201	0.0143	0.00378	0.0154	0.00958	0.124	0.129
Perfluorononanoic Acid (PFNA)	375-95-1	NS	ug/l	0.00562	0.0384	0.00645	0.00254	0.0033	0.00107 J	0.00155 J	0.00153 J
Perfluorooctanesulfonamide (FOSA)	754-91-6	NS	ug/l	<0.00201 U	0.00213 J	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	0.0452 J	0.0484
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.0027	ug/l	0.0762	0.893 J	0.065	0.00646	0.0425	0.0377	0.395	0.418
Perfluorooctanoic Acid (PFOA)	335-67-1	0.0067	ug/l	0.206	0.342	0.183	0.0107	0.0675	0.0758	0.0518	0.0456
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	ug/l	0.015	0.0228	0.0154	0.00456	0.013	0.00802	0.189	0.189
Perfluorotetradecanoic Acid (PFTA)	376-06-7	NS	ug/l	<0.00201 U	<0.00188 U	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	<0.00192 U	<0.00192 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	ug/l	<0.00201 U	<0.00188 U	<0.00195 U	<0.00186 U	<0.00191 U	<0.00184 U	<0.00192 U	<0.00192 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	ug/l	<0.00201 U	<0.00188 U	<0.00195 U	0.000286 J	<0.00191 U	<0.00184 U	0.000373 J	0.000418 J
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	NS	ug/l	<0.00201 UJ	<0.00188 U	<0.00195 UJ	<0.00186 U	<0.00191 UJ	<0.00184 UJ	<0.00192 UJ	<0.00192 UJ
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	NS	ug/l	<0.00201 UJ	<0.00188 UJ	<0.00195 UJ	<0.00186 U	<0.00191 UJ	<0.00184 UJ	<0.00192 UJ	<0.00192 UJ
Total PFOA and PFOS	TOTPFOA/PFOS	NS	ug/l	0.282	1.24	0.248	0.0172	0.11	0.114	0.447	0.464

Table 4
Remedial Investigation Report
Groundwater Sample Analytical Results

Page 5 of 5

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Notes:

CAS - Chemical Abstract Service

NS - No standard

ug/l - micrograms per liter

RL - Reporting limit

<RL - Not detected

Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	NYSDOH Decision Matrices Minimum Concentrations	Location	AA01	SSV17	SSV20
			Sample Name	AA01_111122	SSV17_111122	SSV20_111122
			Sample Date	11/11/2022	11/11/2022	11/11/2022
			Sample Type	AA	SSV	SSV
			Unit	Result	Result	Result
Volatile Organic Compounds						
1,1,1-Trichloroethane	71-55-6	100	ug/m3	< 1.09 U	< 1.09 U	29
1,1,2,2-Tetrachloroethane	79-34-5	NS	ug/m3	< 1.37 U	< 1.37 U	< 1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	ug/m3	< 1.53 U	< 1.53 U	< 1.53 U
1,1,2-Trichloroethane	79-00-5	NS	ug/m3	< 1.09 U	< 1.09 U	< 1.09 U
1,1-Dichloroethane	75-34-3	NS	ug/m3	< 0.809 U	< 0.809 U	< 0.809 U
1,1-Dichloroethene	75-35-4	6	ug/m3	< 0.793 U	< 0.793 U	< 0.793 U
1,2,4-Trichlorobenzene	120-82-1	NS	ug/m3	< 1.48 U	< 1.48 U	< 1.48 U
1,2,4-Trimethylbenzene	95-63-6	NS	ug/m3	< 0.983 U	2.28	2.5
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	ug/m3	< 1.54 U	< 1.54 U	< 1.54 U
1,2-Dichlorobenzene	95-50-1	NS	ug/m3	< 1.2 U	< 1.2 U	< 1.2 U
1,2-Dichloroethane	107-06-2	NS	ug/m3	< 0.809 U	< 0.809 U	< 0.809 U
1,2-Dichloropropane	78-87-5	NS	ug/m3	< 0.924 U	< 0.924 U	< 0.924 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	ug/m3	< 1.4 U	< 1.4 U	< 1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NS	ug/m3	< 0.983 U	< 0.983 U	< 0.983 U
1,3-Butadiene	106-99-0	NS	ug/m3	< 0.442 U	< 0.442 U	< 0.442 U
1,3-Dichlorobenzene	541-73-1	NS	ug/m3	< 1.2 U	< 1.2 U	< 1.2 U
1,4-Dichlorobenzene	106-46-7	NS	ug/m3	< 1.2 U	< 1.2 U	< 1.2 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	ug/m3	< 0.721 U	< 0.721 U	< 0.721 U
2,2,4-Trimethylpentane	540-84-1	NS	ug/m3	< 0.934 U	< 0.934 U	< 0.934 U
2-Hexanone (MBK)	591-78-6	NS	ug/m3	< 0.82 U	< 0.82 U	< 0.82 U
4-Ethyltoluene	622-96-8	NS	ug/m3	< 0.983 U	< 0.983 U	< 0.983 U
Acetone	67-64-1	NS	ug/m3	5.18	< 2.38 U	32.1
Allyl Chloride (3-Chloropropene)	107-05-1	NS	ug/m3	< 0.626 U	< 0.626 U	< 0.626 U
Benzene	71-43-2	NS	ug/m3	< 0.639 U	< 0.639 U	3.08
Benzyl Chloride	100-44-7	NS	ug/m3	< 1.04 U	< 1.04 U	< 1.04 U
Bromodichloromethane	75-27-4	NS	ug/m3	< 1.34 U	< 1.34 U	< 1.34 U
Bromoethene	593-60-2	NS	ug/m3	< 0.874 U	< 0.874 U	< 0.874 U
Bromoform	75-25-2	NS	ug/m3	< 2.07 U	< 2.07 U	< 2.07 U
Bromomethane	74-83-9	NS	ug/m3	< 0.777 U	< 0.777 U	< 0.777 U
Carbon Disulfide	75-15-0	NS	ug/m3	< 0.623 U	2.91	5.79
Carbon Tetrachloride	56-23-5	6	ug/m3	< 1.26 U	< 1.26 U	< 1.26 U
Chlorobenzene	108-90-7	NS	ug/m3	< 0.921 U	< 0.921 U	< 0.921 U
Chloroethane	75-00-3	NS	ug/m3	< 0.528 U	< 0.528 U	< 0.528 U
Chloroform	67-66-3	NS	ug/m3	< 0.977 U	2.39	9.86
Chloromethane	74-87-3	NS	ug/m3	1.16	< 0.413 U	< 0.413 U
Cis-1,2-Dichloroethene	156-59-2	6	ug/m3	< 0.793 U	< 0.793 U	< 0.793 U
Cis-1,3-Dichloropropene	10061-01-5	NS	ug/m3	< 0.908 U	< 0.908 U	< 0.908 U
Cyclohexane	110-82-7	NS	ug/m3	< 0.688 U	< 0.688 U	1.04
Dibromochloromethane	124-48-1	NS	ug/m3	< 1.7 U	< 1.7 U	< 1.7 U
Dichlorodifluoromethane	75-71-8	NS	ug/m3	2.36	2.32	2.96
Ethanol	64-17-5	NS	ug/m3	< 9.42 U	< 9.42 U	< 9.42 U
Ethyl Acetate	141-78-6	NS	ug/m3	< 1.8 U	< 1.8 U	< 1.8 U
Ethylbenzene	100-41-4	NS	ug/m3	< 0.869 U	1.45	11.9
Hexachlorobutadiene	87-68-3	NS	ug/m3	< 2.13 U	< 2.13 U	< 2.13 U
Isopropanol	67-63-0	NS	ug/m3	3.47	< 1.23 U	< 1.23 U
M,P-Xylene	179601-23-1	NS	ug/m3	< 1.74 U	4.73	43.9
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NS	ug/m3	< 1.47 U	< 1.47 U	5.54
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/m3	< 2.05 U	< 2.05 U	< 2.05 U
Methylene Chloride	75-09-2	100	ug/m3	< 1.74 U	< 1.74 U	< 1.74 U
n-Heptane	142-82-5	NS	ug/m3	< 0.82 U	< 0.82 U	9.1
n-Hexane	110-54-3	NS	ug/m3	< 0.705 U	< 0.705 U	6.73
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	ug/m3	< 0.869 U	1.91	20.7
Styrene	100-42-5	NS	ug/m3	< 0.852 U	< 0.852 U	< 0.852 U
Tert-Butyl Alcohol	75-65-0	NS	ug/m3	< 1.52 U	< 1.52 U	< 1.52 U
Tert-Butyl Methyl Ether	1634-04-4	NS	ug/m3	< 0.721 U	< 0.721 U	< 0.721 U
Tetrachloroethene (PCE)	127-18-4	100	ug/m3	< 1.36 U	83.4	4.4
Tetrahydrofuran	109-99-9	NS	ug/m3	< 1.47 U	< 1.47 U	< 1.47 U
Toluene	108-88-3	NS	ug/m3	1.08	2.2	5.95
Total Xylenes	1330-20-7	NS	ug/m3	< 0.869 U	6.65	64.7
Trans-1,2-Dichloroethene	156-60-5	NS	ug/m3	< 0.793 U	< 0.793 U	< 0.793 U
Trans-1,3-Dichloropropene	10061-02-6	NS	ug/m3	< 0.908 U	< 0.908 U	< 0.908 U
Trichloroethene (TCE)	79-01-6	6	ug/m3	< 1.07 U	< 1.07 U	69.3
Trichlorofluoromethane	75-69-4	NS	ug/m3	1.17	1.4	2.63
Vinyl Chloride	75-01-4	6	ug/m3	< 0.511 U	< 0.511 U	< 0.511 U
Total BTEX	BTEX	NS	ug/m3	14.42	111.64	331.18
Total VOCs	VOCs	NS	ug/m3	1.08	10.3	85.63

Table 5
Remedial Investigation Report
Soil Vapor Sample Analytical Results

Page 2 of 2

Third Street Gowanus
125 3rd Street
Brooklyn, New York
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Notes:

AA - Ambient Air

SSV - Sub-slab Soil Vapor

CAS - Chemical Abstract Service

NS - No standard

ug/m3 - micrograms per cubic meter

NA - Not analyzed

RL - Reporting limit

<RL - Not detected

Sub-slab vapor sample analytical results are compared to the minimum soil vapor concentrations at which mitigation is recommended as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).

Ambient air sample analytical results are shown for reference only.

Qualifiers:

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds minimum soil vapor concentrations recommending mitigation

Table 6
Remedial Investigation Report
Quality Assurance/Quality Control Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	Sample Type	FB	TB	EB	TB	FB	TB	EB	TB	FB	TB	FB	TB
		Sample Name	SBFB01_110922	SBTB01_110922	SBEB01_111022	SBTB02_111022	SBFB02_111122	SBTB03_111122	SBEB02_111422	SBTB04_111422	SBFB03_111522	SBTB05_111522	GWFB01_112222	GWTB01_112222
		Sample Date	11/09/2022	11/09/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/22/2022	11/22/2022
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Table 6
Remedial Investigation Report
Quality Assurance/Quality Control Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	Sample Type	FB	TB	EB	TB	FB	TB	EB	TB	FB	TB	FB	TB
		Sample Name	SBFB01_110922	SBTB01_110922	SBEB01_111022	SBTB02_111022	SBFB02_111122	SBTB03_111122	SBEB02_111422	SBTB04_111422	SBFB03_111522	SBTB05_111522	GWFB01_112222	GWTB01_112222
		Sample Date	11/09/2022	11/09/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/22/2022	11/22/2022
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
1,2,4-Trichlorobenzene	120-82-1	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
1,2-Dichlorobenzene	95-50-1	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
1,3-Dichlorobenzene	541-73-1	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
1,4-Dichlorobenzene	106-46-7	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
1,4-Dioxane (P-Dioxane)	123-91-1	ug/l	<0.144 U	NA	NA	NA	<0.144 U	NA	NA	NA	<0.147 U	NA	<0.147 U	NA
2,4,5-Trichlorophenol	95-95-4	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2,4,6-Trichlorophenol	88-06-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2,4-Dichlorophenol	120-83-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2,4-Dimethylphenol	105-67-9	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2,4-Dinitrophenol	51-28-5	ug/l	<20 U	NA	NA	NA	<20 U	NA	NA	NA	<20 U	NA	<20 U	NA
2,4-Dinitrotoluene	121-14-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2,6-Dinitrotoluene	606-20-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2-Chloronaphthalene	91-58-7	ug/l	<0.20 U	NA	NA	NA	<0.20 U	NA	NA	NA	<0.20 U	NA	<0.20 U	NA
2-Chlorophenol	95-57-8	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
2-Methylnaphthalene	91-57-6	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
2-Methylphenol (o-Cresol)	95-48-7	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2-Nitroaniline	88-74-4	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
2-Nitrophenol	88-75-5	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
3,3'-Dichlorobenzidine	91-94-1	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
3-Nitroaniline	99-09-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
4,6-Dinitro-2-Methylphenol	534-52-1	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
4-Bromophenyl Phenyl Ether	101-55-3	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
4-Chloro-3-Methylphenol	59-50-7	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
4-Chloroaniline	106-47-8	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
4-Nitroaniline	100-01-6	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
4-Nitrophenol	100-02-7	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
Acenaphthene	83-32-9	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Acenaphthylene	208-96-8	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Acetophenone	98-86-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Anthracene	120-12-7	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	0.01 J	NA	<0.10 U	NA
Benzo(a)anthracene	56-55-3	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	0.04 J	NA
Benzo(a)pyrene	50-32-8	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Benzo(b)fluoranthene	205-99-2	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Benzo(g,h,i)Perylene	191-24-2	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	0.02 J	NA	<0.10 U	NA
Benzo(k)fluoranthene	207-08-9	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Benzoic Acid	65-85-0	ug/l	<50 U	NA	NA	NA	<50 U	NA	NA	NA	<50 U	NA	<50 U	NA
Benzyl Alcohol	100-51-6	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Benzyl Butyl Phthalate	85-68-7	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Biphenyl (Diphenyl)	92-52-4	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Bis(2-chloroethoxy) methane	111-91-1	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Bis(2-chloroisopropyl) ether	108-60-1	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Bis(2-ethylhexyl) phthalate	117-81-7	ug/l	<3.0 U	NA	NA	NA	<3.0 U	NA	NA	NA	<3.0 U	NA	<3.0 U	NA
Carbazole	86-74-8	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Chrysene	218-01-9	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Dibenz(a,h)anthracene	53-70-3	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	0.01 J	NA	<0.10 U	NA
Dibenzofuran	132-64-9	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Dibutyl phthalate	84-74-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Diethyl phthalate	84-66-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Dimethyl phthalate	131-11-3	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Diocetyl phthalate	117-84-0	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Fluoranthene	206-44-0	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Fluorene	86-73-7	ug/l	0.02 J	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Hexachlorobenzene	118-74-1	ug/l	<0.80 U	NA	NA	NA	<0.80 U	NA	NA	NA	<0.80 U	NA	<0.80 U	NA
Hexachlorobutadiene	87-68-3	ug/l	<0.50 U	NA	NA	NA	<0.50 U	NA	NA	NA	<0.50 U	NA	<0.50 U	NA
Hexachlorocyclopentadiene	77-47-4	ug/l	<20 U	NA	NA	NA	<20 U	NA	NA	NA	<20 U	NA	<20 U	NA
Hexachloroethane	67-72-1	ug/l	<0.80 U	NA	NA	NA	<0.80 U	NA	NA	NA	<0.80 U	NA	<0.80 U	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Isophorone	78-59-1	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Naphthalene	91-20-3	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA
Nitrobenzene	98-95-3	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
n-Nitrosodi-N-Propylamine	621-64-7	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
n-Nitrosodiphenylamine	86-30-6	ug/l	<2.0 U	NA	NA	NA	<2.0 U	NA	NA	NA	<2.0 U	NA	<2.0 U	NA
Pentachlorophenol	87-86-5	ug/l	<0.80 U	NA	NA	NA	<0.80 U	NA	NA	NA	<0.80 U	NA	<0.80 U	NA
Phenanthrene	85-01-8	ug/l	<0.10 U	NA	NA	NA	0.03 J	NA	NA	NA	0.04 J	NA	<0.10 U	NA
Phenol	108-95-2	ug/l	<5.0 U	NA	NA	NA	<5.0 U	NA	NA	NA	<5.0 U	NA	<5.0 U	NA
Pyrene	129-00-0	ug/l	<0.10 U	NA	NA	NA	<0.10 U	NA	NA	NA	<0.10 U	NA	<0.10 U	NA

Table 6
Remedial Investigation Report
Quality Assurance/Quality Control Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	Sample Type	FB	TB	EB	TB	FB	TB	EB	TB	FB	TB	FB	TB
		Sample Name	SBFB01_110922	SBTB01_110922	SBEB01_111022	SBTB02_111022	SBFB02_111122	SBTB03_111122	SBEB02_111422	SBTB04_111422	SBFB03_111522	SBTB05_111522	GWFB01_112222	GWTB01_112222
		Sample Date	11/09/2022	11/09/2022	11/10/2022	11/10/2022	11/11/2022	11/10/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/22/2022	11/22/2022
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides														
4,4'-DDD	72-54-8	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
4,4'-DDE	72-55-9	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
4,4'-DDT	50-29-3	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Aldrin	309-00-2	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Alpha Chlordane	5103-71-9	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Alpha Endosulfan	959-98-8	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Beta Endosulfan	33213-65-9	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Chlordane (alpha and gamma)	57-74-9	ug/l	<0.143 U	NA	NA	NA	<0.143 U	NA	NA	NA	<0.143 U	NA	<0.143 U	NA
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Dieldrin	60-57-1	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Endosulfan Sulfate	1031-07-8	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Endrin	72-20-8	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Endrin Aldehyde	7421-93-4	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Endrin Ketone	53494-70-5	ug/l	<0.029 U	NA	NA	NA	<0.029 U	NA	NA	NA	<0.029 U	NA	<0.029 U	NA
Gamma Bhc (Lindane)	58-89-9	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Gamma Chlordane (Trans-)	5103-74-2	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Heptachlor	76-44-8	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Heptachlor Epoxide	1024-57-3	ug/l	<0.014 U	NA	NA	NA	<0.014 U	NA	NA	NA	<0.014 U	NA	<0.014 U	NA
Methoxychlor	72-43-5	ug/l	<0.143 U	NA	NA	NA	<0.143 U	NA	NA	NA	<0.143 U	NA	<0.143 U	NA
Toxaphene	8001-35-2	ug/l	<0.143 U	NA	NA	NA	<0.143 U	NA	NA	NA	<0.143 U	NA	<0.143 U	NA
Herbicides														
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/l	<2.00 U	NA	NA	NA	<2.00 U	NA	NA	NA	<2.00 U	NA	<2.00 U	NA
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/l	<10.0 U	NA	NA	NA	<10.0 U	NA	NA	NA	<10.0 U	NA	<10.0 U	NA
Silvex (2,4,5-Tp)	93-72-1	ug/l	<2.00 U	NA	NA	NA	<2.00 U	NA	NA	NA	<2.00 U	NA	<2.00 U	NA
Polychlorinated Biphenyl														
PCB-1016 (Aroclor 1016)	12674-11-2	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1221 (Aroclor 1221)	11104-28-2	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1232 (Aroclor 1232)	11141-16-5	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1242 (Aroclor 1242)	53469-21-9	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1248 (Aroclor 1248)	12672-29-6	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1254 (Aroclor 1254)	11097-69-1	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1260 (Aroclor 1260)	11096-82-5	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1262 (Aroclor 1262)	37324-23-5	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
PCB-1268 (Aroclor 1268)	11100-14-4	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA
Total PCBs	1336-36-3	ug/l	<0.071 U	NA	NA	NA	<0.071 U	NA	NA	NA	<0.071 U	NA	<0.071 U	NA

Table 6
Remedial Investigation Report
Quality Assurance/Quality Control Sample Analytical Results

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

Analyte	CAS Number	Sample Type	FB	TB	EB	TB	FB	TB	EB	TB	FB	TB	FB	TB
		Sample Name	SBFB01_110922	SBTB01_110922	SBEB01_111022	SBTB02_111022	SBFB02_111122	SBTB03_111122	SBEB02_111422	SBTB04_111422	SBFB03_111522	SBTB05_111522	GWFB01_112222	GWTB01_112222
		Sample Date	11/09/2022	11/09/2022	11/10/2022	11/10/2022	11/11/2022	11/11/2022	11/14/2022	11/14/2022	11/15/2022	11/15/2022	11/22/2022	11/22/2022
		Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Metals - Dissolved														
Aluminum	7429-90-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10.0 U	NA
Antimony	7440-36-0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.00 U	NA
Arsenic	7440-38-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50 U	NA
Barium	7440-39-3	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50 U	NA
Beryllium	7440-41-7	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50 U	NA
Cadmium	7440-43-9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20 U	NA
Calcium	7440-70-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 U	NA
Chromium, Total	7440-47-3	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.00 U	NA
Cobalt	7440-48-4	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50 U	NA
Copper	7440-50-8	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.80 J	NA
Iron	7439-89-6	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50.0 U	NA
Lead	7439-92-1	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.00 U	NA
Magnesium	7439-95-4	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<70.0 U	NA
Manganese	7439-96-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.00 U	NA
Mercury	7439-97-6	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20 U	NA
Nickel	7440-02-0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.00 U	NA
Potassium	7440-09-7	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 U	NA
Selenium	7782-49-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00 U	NA
Silver	7440-22-4	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.40 U	NA
Sodium	7440-23-5	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100 U	NA
Thallium	7440-28-0	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15 J	NA
Vanadium	7440-62-2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.00 U	NA
Zinc	7440-66-6	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10.00 U	NA
Metals - Total														
Aluminum	7429-90-5	ug/l	<10.0 U	NA	NA	NA	<10.0 U	NA	NA	NA	3.95 J	NA	<10.0 U	NA
Antimony	7440-36-0	ug/l	<4.00 U	NA	NA	NA	<4.00 U	NA	NA	NA	<4.00 U	NA	<4.00 U	NA
Arsenic	7440-38-2	ug/l	<0.50 U	NA	NA	NA	<0.50 U	NA	NA	NA	0.42 J	NA	<0.50 U	NA
Barium	7440-39-3	ug/l	<0.50 U	NA	NA	NA	0.20 J	NA	NA	NA	0.17 J	NA	<0.50 U	NA
Beryllium	7440-41-7	ug/l	<0.50 U	NA	NA	NA	<0.50 U	NA	NA	NA	<0.50 U	NA	<0.50 U	NA
Cadmium	7440-43-9	ug/l	<0.20 U	NA	NA	NA	<0.20 U	NA	NA	NA	<0.20 U	NA	<0.20 U	NA
Calcium	7440-70-2	ug/l	<100 U	NA	NA	NA	<100 U	NA	NA	NA	<100 U	NA	<100 U	NA
Chromium, Hexavalent	18540-29-9	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
Chromium, Total	7440-47-3	ug/l	<1.00 U	NA	NA	NA	<1.00 U	NA	NA	NA	<1.00 U	NA	<1.00 U	NA
Chromium, Trivalent	16065-83-1	ug/l	<10 U	NA	NA	NA	<10 U	NA	NA	NA	<10 U	NA	<10 U	NA
Cobalt	7440-48-4	ug/l	<0.50 U	NA	NA	NA	<0.50 U	NA	NA	NA	<0.50 U	NA	<0.50 U	NA
Copper	7440-50-8	ug/l	<1.00 U	NA	NA	NA	<1.00 U	NA	NA	NA	<1.00 U	NA	<1.00 U	NA
Cyanide	57-12-5	ug/l	<5 U	NA	NA	NA	<5 U	NA	NA	NA	<5 U	NA	<5 U	NA
Iron	7439-89-6	ug/l	<50.0 U	NA	NA	NA	<50.0 U	NA	NA	NA	<50.0 U	NA	<50.0 U	NA
Lead	7439-92-1	ug/l	<1.00 U	NA	NA	NA	<1.00 U	NA	NA	NA	<1.00 U	NA	<1.00 U	NA
Magnesium	7439-95-4	ug/l	<70.0 U	NA	NA	NA	<70.0 U	NA	NA	NA	<70.0 U	NA	<70.0 U	NA
Manganese	7439-96-5	ug/l	<1.00 U	NA	NA	NA	<1.00 U	NA	NA	NA	<1.00 U	NA	<1.00 U	NA
Mercury	7439-97-6	ug/l	<0.20 U	NA	NA	NA	<0.20 U	NA	NA	NA	<0.20 U	NA	<0.20 U	NA
Nickel	7440-02-0	ug/l	<2.00 U	NA	NA	NA	<2.00 U	NA	NA	NA	<2.00 U	NA	<2.00 U	NA
Potassium	7440-09-7	ug/l	<100 U	NA	NA	NA	<100 U	NA	NA	NA	<100 U	NA	<100 U	NA
Selenium	7782-49-2	ug/l	<5.00 U	NA	NA	NA	<5.00 U	NA	NA	NA	<5.00 U	NA	<5.00 U	NA
Silver	7440-22-4	ug/l	<0.40 U	NA	NA	NA	<0.40 U	NA	NA	NA	<0.40 U	NA	<0.40 U	NA
Sodium	7440-23-5	ug/l	<100 U	NA	NA	NA	<100 U	NA	NA	NA	<100 U	NA	<100 U	NA
Thallium	7440-28-0	ug/l	<1.00 U	NA	NA	NA	<2.00 U	NA	NA	NA	<1.00 U	NA	0.20 J	NA
Vanadium	7440-62-2	ug/l	<5.00 U	NA	NA	NA	<5.00 U	NA	NA	NA	<5.00 U	NA	<5.00 U	NA
Zinc	7440-66-6	ug/l	<10.00 U	NA	NA	NA	<10.00 U	NA	NA	NA	<10.00 U	NA	<10.00 U	NA
Perfluorooctanoic acids														
N-ethyl perfluorooctane- sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
N-methyl perfluorooctane- sulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorobutanoic acid (PFBA)	375-22-4	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorononanoic Acid (PFNA)	375-95-1	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorooctanesulfonamide (FOSA)	754-91-6	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorotetradecanoic Acid (PFTA)	376-06-7	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2) (8:2FTS)	39108-34-4	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2) (6:2FTS)	27619-97-2	ug/l	<0.00181 U	NA	<0.00180 U	NA	0.0346	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA
Total PFOA and PFOS	TOTPFOAPFOS	ug/l	<0.00181 U	NA	<0.00180 U	NA	<0.00180 U	NA	<0.00174 U	NA	<0.00177 U	NA	<0.00177 U	NA

Table 6
Remedial Investigation Report
Quality Assurance/Quality Control Sample Analytical Results

Page 5 of 5

Third Street Gowanus
125 3rd Street
Brooklyn, NY
NYSDEC BCP Site No.: C224346
Langan Project No.: 170698601

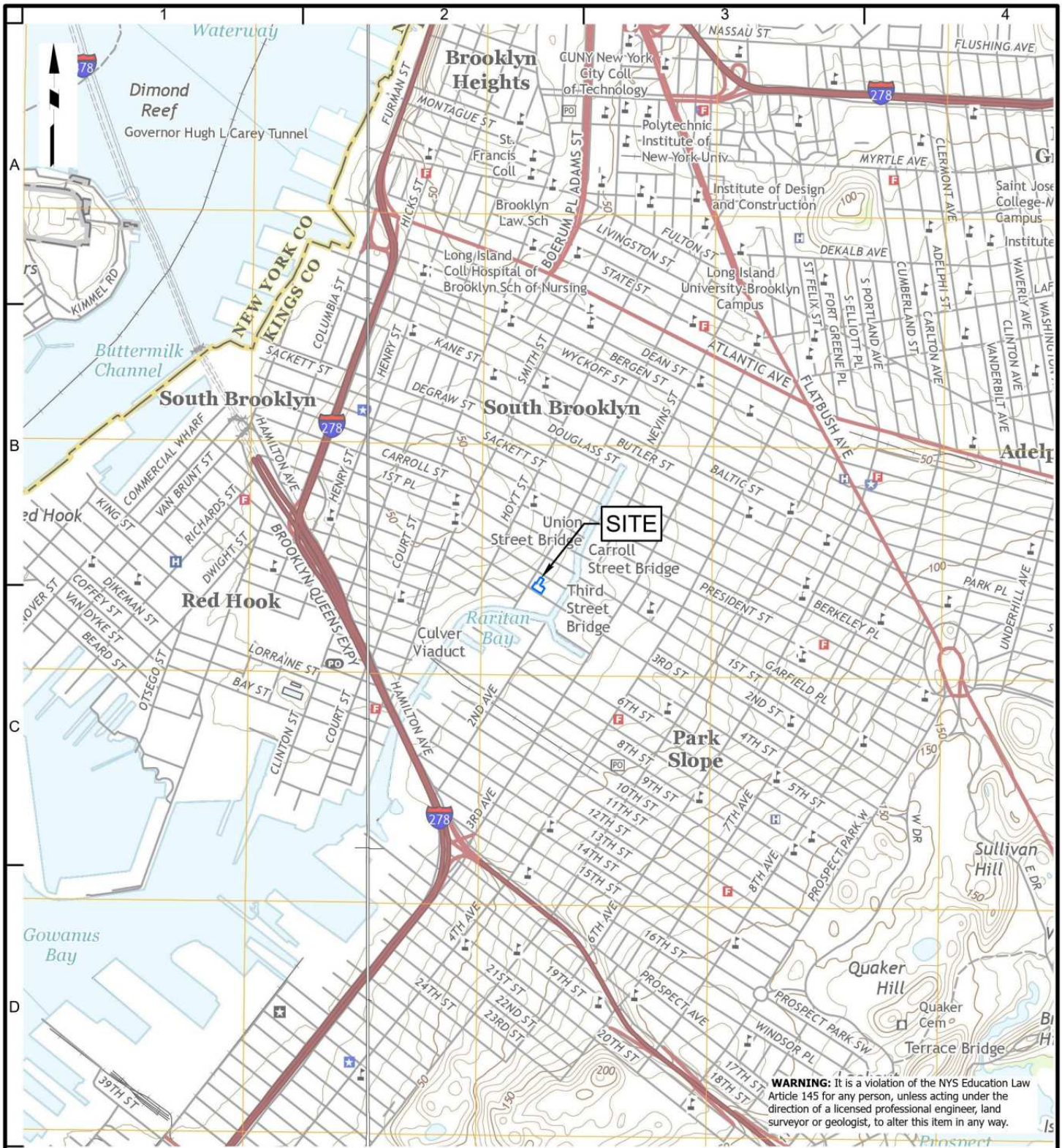
Notes:

FB - Field Blank
TB - Trip Blank
EB - Equipment Blank
CAS - Chemical Abstract Service
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Qualifiers:

J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

FIGURES



LEGEND

APPROXIMATE SITE BOUNDARY



WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless acting under the direction of a licensed professional engineer, land surveyor or geologist, to alter this item in any way.

NOTES:
1. BASEMAP ADAPTED FROM UNITED STATES GEOLOGICAL SURVEY (USGS) 7.5-MINUTE SERIES TOPOGRAPHICAL MAPS, BROOKLYN, NEW YORK AND JERSEY CITY, NEW JERSEY, QUADRANGLES.

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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

Project

125 3RD STREET
BLOCK No. 462, LOT No. 6

BROOKLYN

NEW YORK

Figure Title

**SITE
LOCATION
MAP**

Project No.

170698601

Date

3/22/2023

Scale

1"=2,000'

Drawn By

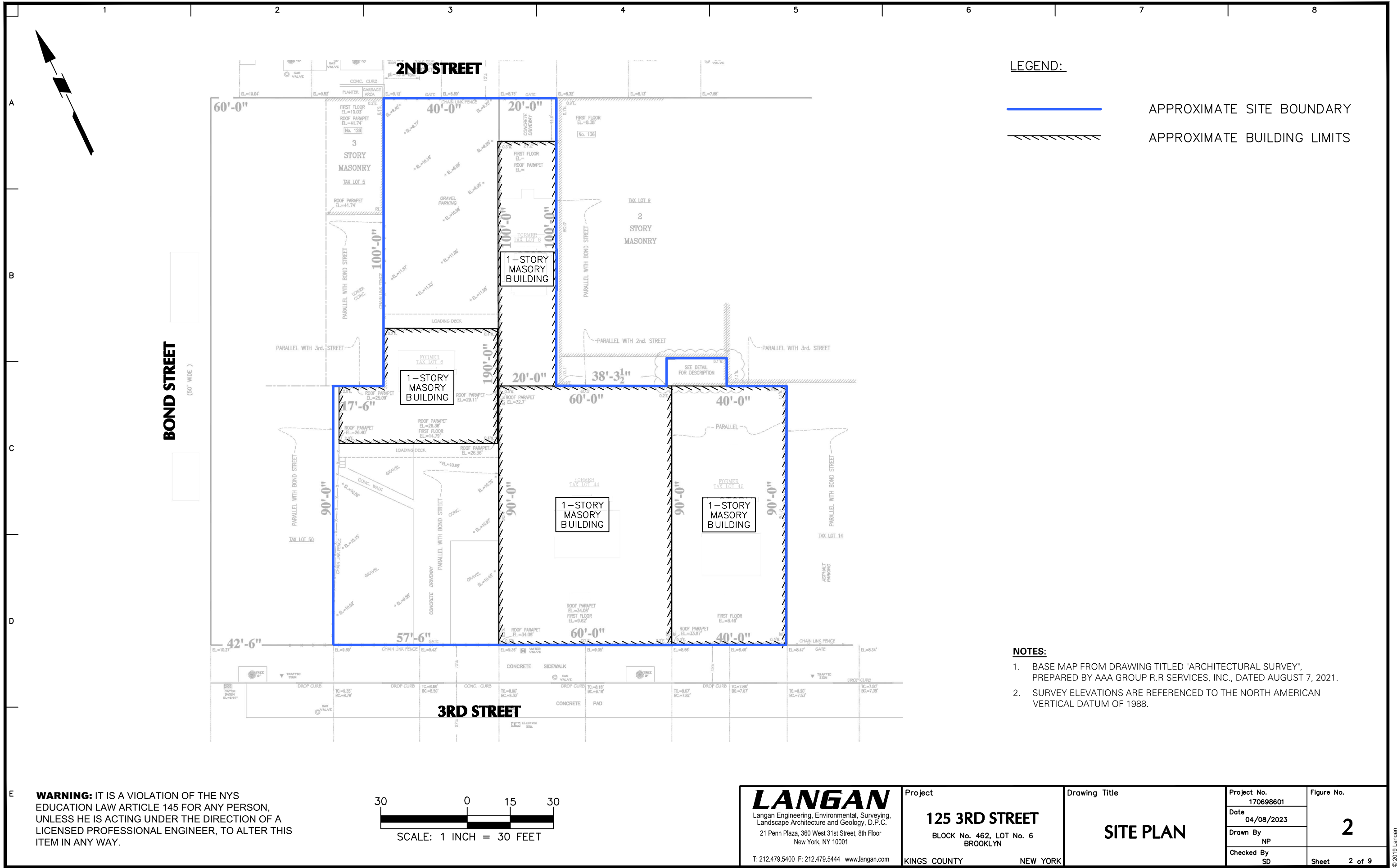
PDT

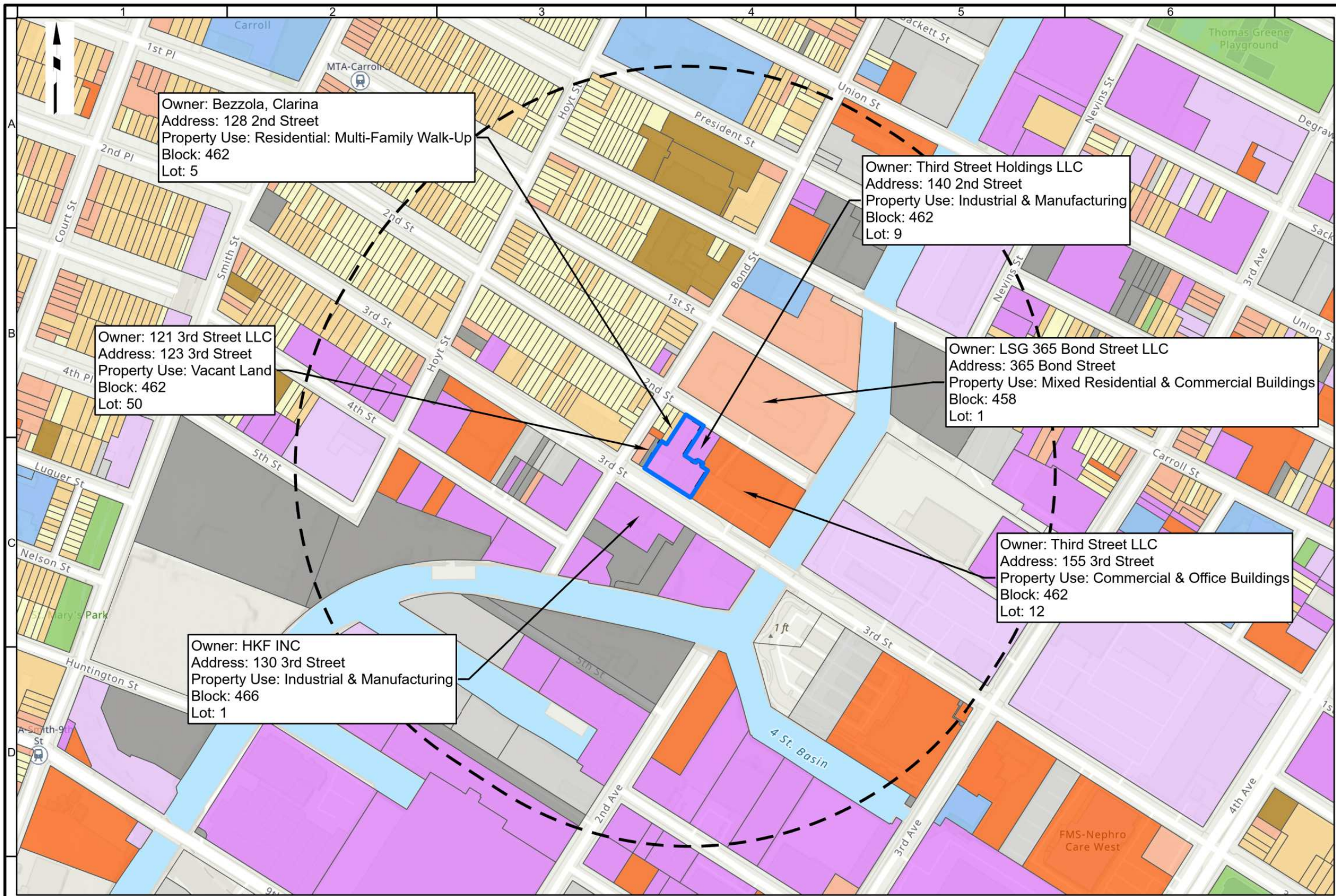
Submission Date

Figure No.

1

Sheet 1 of 9





LEGEND

APPROXIMATE SITE BOUNDARY

1,000-FOOT RADIUS

Land Use

- ONE & TWO FAMILY BUILDINGS
- MULTI-FAMILY WALK-UP BUILDINGS
- MULTI-FAMILY ELEVATOR BUILDINGS
- MIXED RESIDENTIAL & COMMERCIAL BUILDINGS
- COMMERCIAL & OFFICE BUILDINGS
- INDUSTRIAL & MANUFACTURING
- TRANSPORTATION & UTILITY
- PUBLIC FACILITIES & INSTITUTIONS
- OPEN SPACE & OUTDOOR RECREATION
- PARKING FACILITIES
- VACANT LAND

NOTES:
1. SURROUNDING LAND USE DATA PROVIDED BY THE NEW YORK CITY DEPARTMENT OF CITY PLANNING, MAPPLUTO 22V3.1, FEBRUARY 2023.

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Project

125 3RD STREET

BLOCK No. 462, LOT No. 6

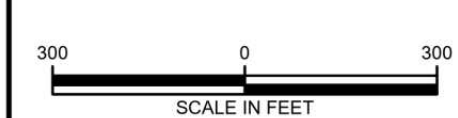
BROOKLYN

KINGS COUNTY NEW YORK

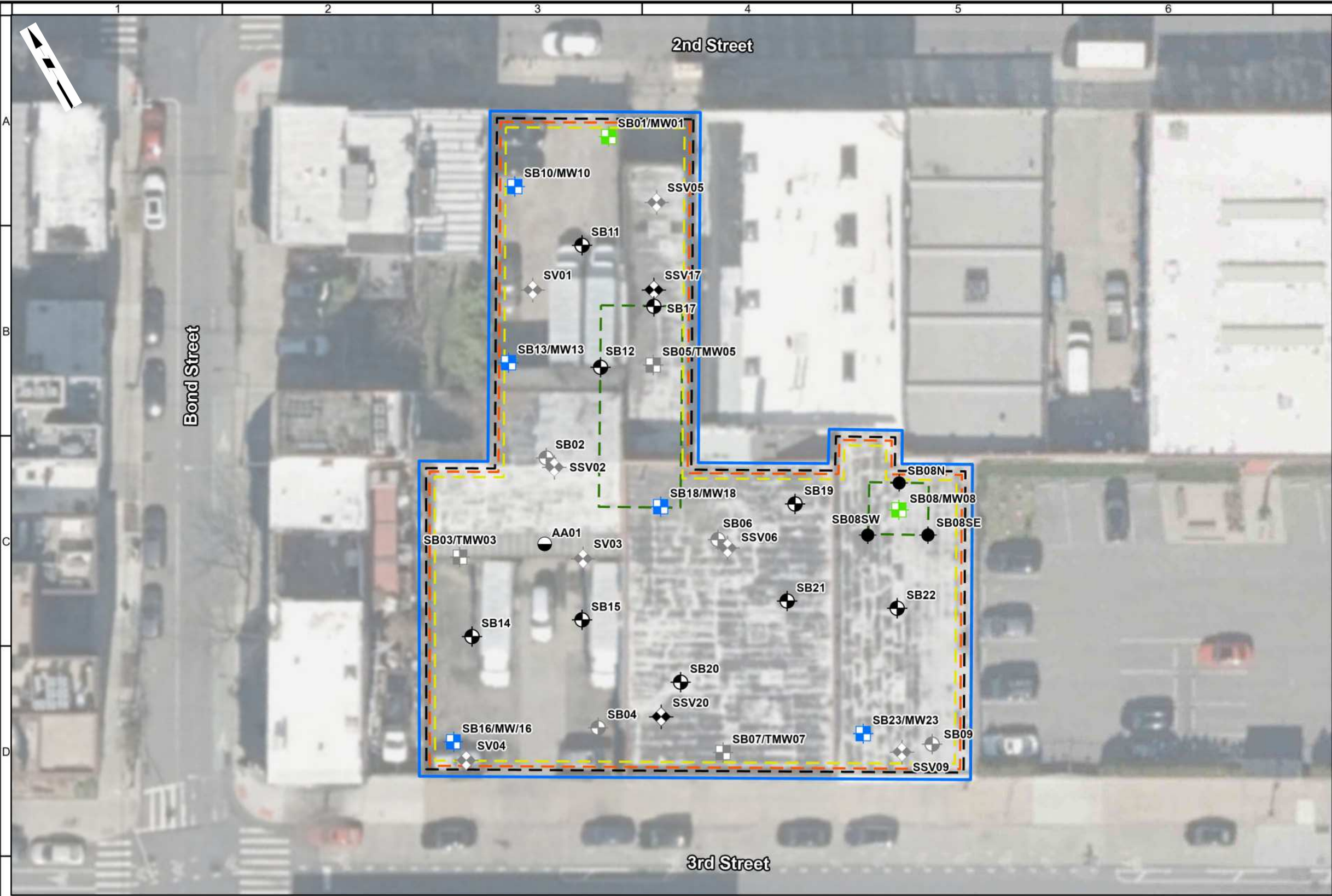
Figure Title

SURROUNDING LAND USE MAP

Project No.	170698601	Figure No.	3
Date	4/10/2023		
Scale	1"=300'		
Drawn By	MG	Sheet 3 of 9	



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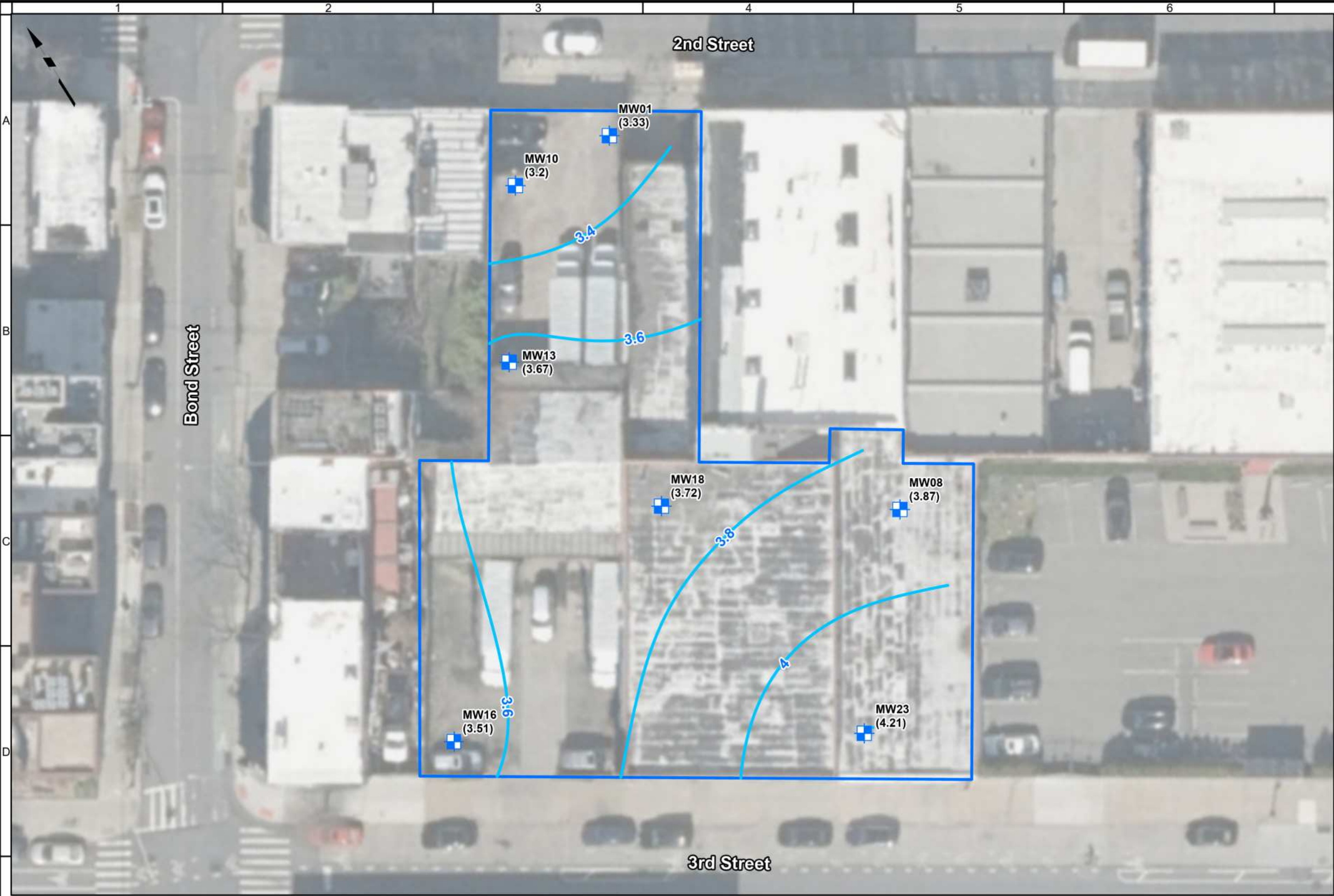


Legend

- SB02 Previous Soil Boring Location, 2021 SI
- SB01/MW01 Previous Soil Boring and Monitoring Well Location, 2021 SI
- SB05/TMW05 Previous Soil Boring and Temporary Monitoring Well Location, 2021 SI
- SV01 Previous Soil Vapor Point Location, 2021 SI
- SSV02 Previous Sub-slab Vapor Point Location, 2021 SI
- SB11 Soil Boring Location
- SB10/MW10 Soil Boring and Monitoring Well Location
- SSV17 Sub-slab Vapor Point
- SB08N Delineation Soil Boring
- AA01 Ambient Air Sample Location
- Approximate Site Boundary
- AOC 1: Historical Fill Material
- AOC 2: Petroleum Impacts
- AOC 3: Arsenic in Soil and Groundwater
- AOC 4: 1,4-Dioxane in Groundwater

Notes:

1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. All sample location are approximate.
3. AOC - Area of Concern
4. Previous soil borings, monitoring wells, and soil vapor points were completed by Langan on September 7, 2021 to September 10, 2021 during the Subsurface Investigation.
5. SI = Subsurface Investigation.



Legend

MW10 Monitoring Well Location

Groundwater Elevation Contours

Approximate Site Boundary

(3.87) Groundwater Elevation

Notes:

1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.

2. Groundwater elevations are in feet and referenced to North American Vertical Datum of 1988 (NAVD88) as established by GPS observations.

3. Monitoring wells were surveyed by Langan on December 15, 2022.

4. Groundwater contours are inferred based monitoring well gauging data collected by Langan on December 15, 2022.

E



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Project

125 3RD STREET

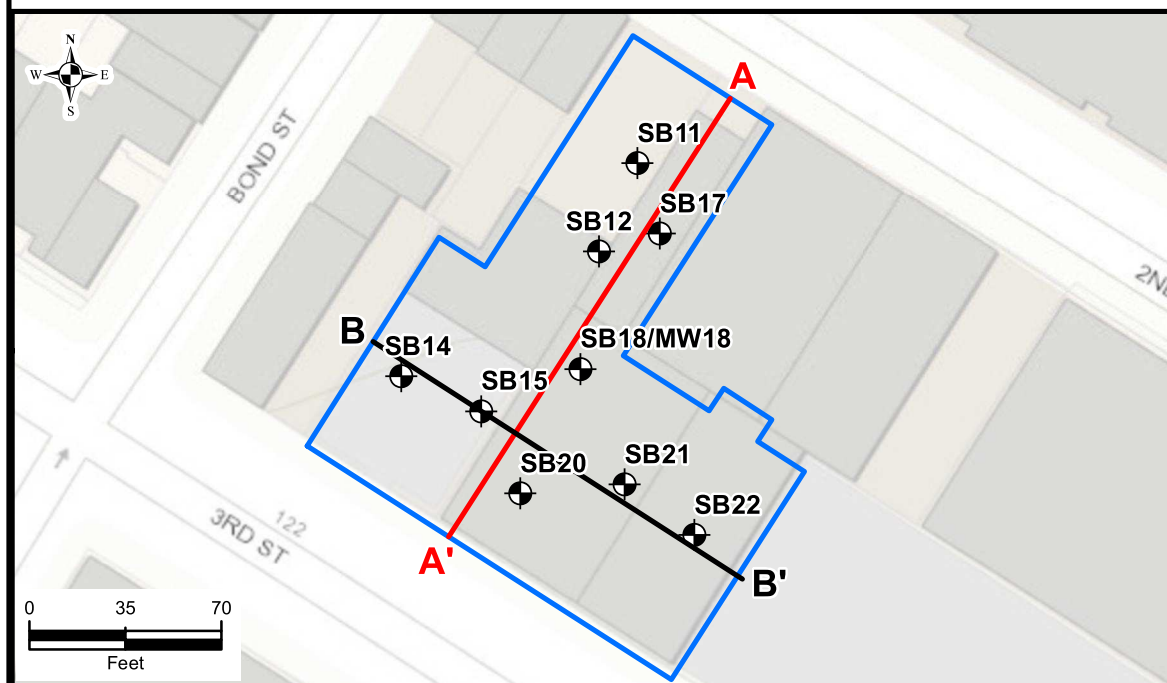
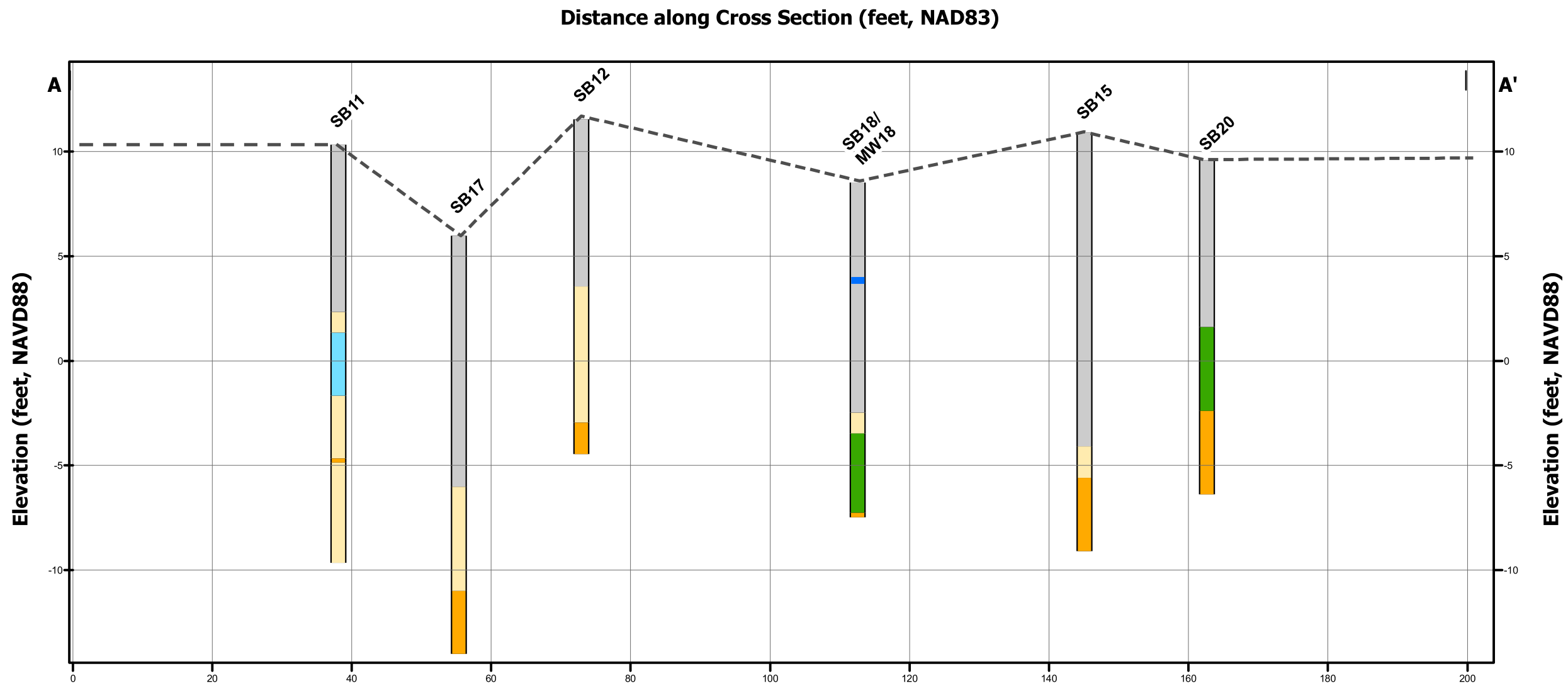
BLOCK No. 462, LOT No. 6
BROOKLYN

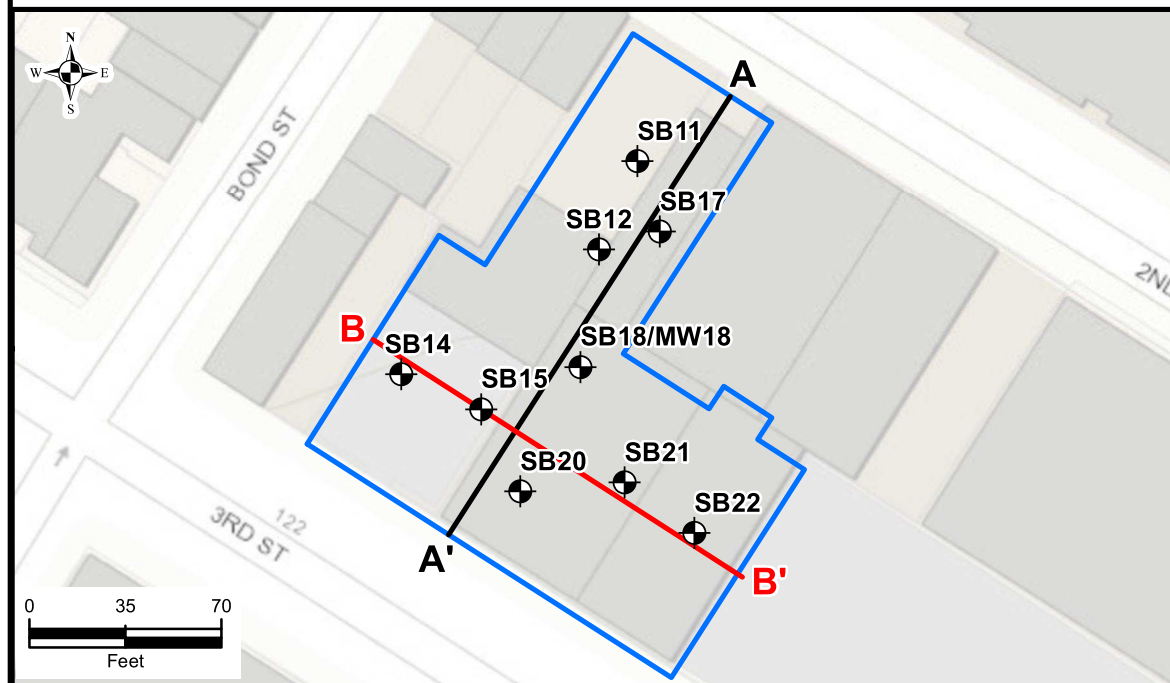
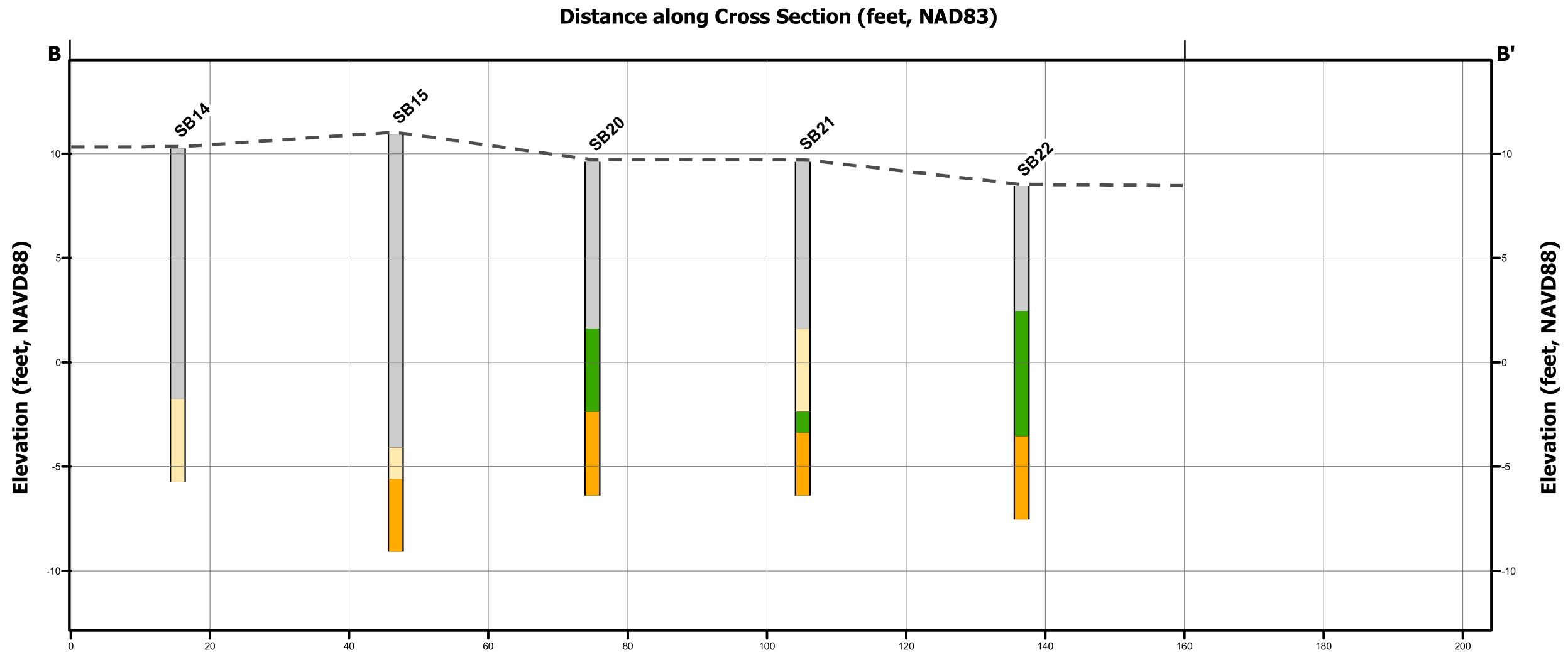
KINGS COUNTY NEW YORK

Figure Title

**GROUNDWATER
CONTOUR MAP**

Project No. 170698601	Figure No. 5
Date 4/10/2023	
Scale 1"=30'	
Drawn By MG	Sheet 5 of 9





Legend

- Fill
- Clay
- Silt
- Sand
- Approximate grade surface
- Soil Boring Location
- Approximate Site Boundary

- Notes:**
1. Vertical exaggeration 1:3
 2. This profile represents a generalized soil cross section depicting location, elevation, and environmental and engineering properties between points of exploration, variations in subsurface conditions should be expected between borings.
 3. All locations are approximate.
 4. Grade elevations are inferred from drawing titled "Architectural Survey", prepared by AAA Group R.R. Services, Inc., dated August 7, 2021.
 5. Elevations are reference to the North American Vertical Datum of 1988 (NAVD88)
 6. NAD83 = North American Datum of 1983

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Project

125 3RD STREET

BLOCK No. 462, LOT No. 6
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BROOKLYN

NEW YORK

Figure Title

**SUBSURFACE
PROFILE B - B'**

Project No.

170698601

Date

4/10/2023

Scale

AS SHOWN

Drawn By

MG

Sheet 6 of 9

Figure

6B

Location	SB13	SB13 4-6	SB13 10-12
Sample Name	SB13 0-2	SB13 4-6	SB13 10-12
Sample Date	11/11/2022	11/11/2022	11/11/2022
Sample Depth	0-2	4-6	10-12
VOCs			
Acetone	<0.01 U	<0.01 U	<0.0089 U
Naphthalene	<0.0041 U	<0.0041 U	<0.0034 U
SVOCs			
Acenaphthene	0.22	1.7	<0.15 U
Benzo[a]anthracene	1.5	1.5	<0.11 U
Benzo[a]pyrene	1.3	4.1	<0.15 U
Benzo[b]fluoranthene	1.8	4.6	<0.11 U
Benzo[k]fluoranthene	0.54	1.9	<0.11 U
Chrysene	1.5	5	<0.11 U
Dibenz[a,h]anthracene	0.19	5.51 J	<0.11 U
Dibenzofuran	<0.12 U	1.1	<0.11 U
Fluoranthene	2.9	1.2	<0.11 U
Indeno[1,2,3-cd]pyrene	0.91	2.3	<0.15 U
Naphthalene	<0.15 U	1.6	<0.11 U
Phenanthrene	2.4	16	<0.11 U
Pyrene	2.7	11	<0.11 U
Pesticides			
4,4'-DDD	<0.00177 U	<0.00196 U	<0.00177 U
4,4'-DDE	0.0092 J	0.00106 U	<0.00177 U
4,4'-DDT	0.075 J	0.00196 U	<0.00177 U
Alpha Chlordane	1.8 J	0.016 J	<0.00221 U
PCBs			
Total PCBs	0.0928 J	<0.0291 U	<0.0362 U
Metals			
Arsenic	26.8	28.2 J	1.84
Barium	392	288 J	34.7
Cadmium	1.6	0.855 J	0.15 J
Chromium, Hexavalent	<0.013 U	<0.992 UJ	<0.902 UJ
Chromium, Trivalent	16.8	8.23	12.7
Copper	93.4	192 J	12.6
Lead	811	409 J	99.4
Mercury	0.575	2.8 J	<0.094 U
Nickel	25.1	16.9	14.4
Selenium	0.385 J	0.384 J	<1.73 U
Zinc	463	327 J	45.9
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.000519	0.000449	<0.000267 U
Perfluorooctanoic Acid (PFDA)	0.000165 J	0.000133 J	<0.000267 U

Location	SB10	SB10 3-5	SB10 11-13
Sample Name	SB10 0-2	SB10 3-5	SB10 11-13
Sample Date	11/10/2022	11/10/2022	11/10/2022
Sample Depth	0-2	3-5	11-13
VOCs			
Acetone	<0.012 U	<0.01 U	0.02
Naphthalene	0.011	<0.0042 U	<0.0038 U
SVOCs			
Acenaphthene	2.9	0.83	<0.15 U
Benzo[a]anthracene	20	5.6	<0.11 U
Benzo[a]pyrene	18	5.1	<0.15 U
Benzo[b]fluoranthene	23	6.2	<0.11 U
Benzo[k]fluoranthene	4.4	2.1	<0.11 U
Chrysene	18	5.6	<0.11 U
Dibenz[a,h]anthracene	2.8	0.7	<0.11 U
Dibenzofuran	1.4	0.13	<0.15 U
Fluoranthene	61	16	<0.11 U
Indeno[1,2,3-cd]pyrene	32	3.7	<0.15 U
Naphthalene	25	0.43	<0.15 U
Phenanthrene	34	11	<0.11 U
Pyrene	42	12	<0.11 U
Pesticides			
4,4'-DDD	<0.0017 U	<0.00176 U	<0.00178 U
4,4'-DDE	<0.0017 U	<0.00176 U	<0.00178 U
4,4'-DDT	0.017	0.00043 J	<0.00171 U
Alpha Chlordane	<0.00213 U	<0.00224 U	<0.00222 U
PCBs			
Total PCBs	0.0849 J	0.0166 J	<0.0365 U
Metals			
Arsenic	10.9 J	711	2.42
Barium	288 J	34.7	43.3
Cadmium	1.28	0.538 J	0.103 J
Chromium, Hexavalent	0.231 U	0.428 J	<0.913 U
Chromium, Trivalent	8.23	13.1	12.7
Copper	93.4	29.8	11.8
Lead	436	1,800	9.4
Mercury	0.689	1,802	<0.094 U
Nickel	30.4	14.1	14.4
Selenium	0.356 J	<1.73 U	<1.81 U
Zinc	431	316	26.1
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.000168	0.00122	<0.000265 U
Perfluorooctanoic Acid (PFDA)	0.00016 J	0.000168 J	0.000066 J

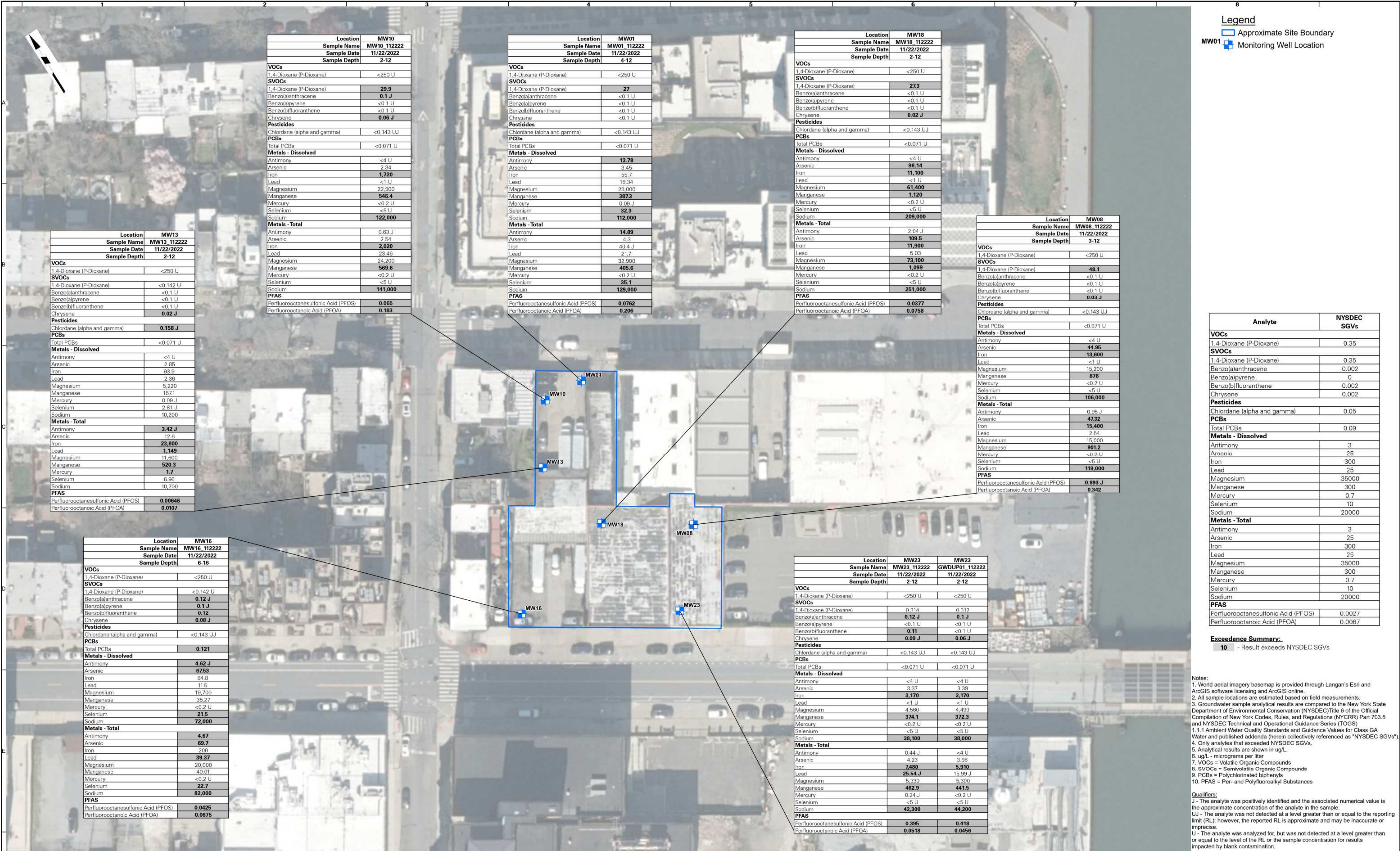
Location	SB11	SB11 3-5	SB11 11-13
Sample Name	SB11 0-2	SB11 3-5	SB11 11-13
Sample Date	11/10/2022	11/10/2022	11/10/2022
Sample Depth	0-2	3-5	11-13
VOCs			
Acetone	<0.019 U	<0.0092 U	0.02
Naphthalene	<0.0076 U	0.001 J	<0.0038 U
SVOCs			
Acenaphthene	24	0.15	<0.15 U
Benzo[a]anthracene	64	1.3	0.091 J
Benzo[a]pyrene	52	1.2	0.069 J
Benzo[b]fluoranthene	16	1.4	0.079 J
Benzo[k]fluoranthene	17	0.5	0.03 J
Chrysene	66	1.3	0.084 J
Dibenz[a,h]anthracene	11	0.18	<0.11 U
Dibenzofuran	1.6	0.096 J	<0.15 U
Fluoranthene	170	2.7	0.17
Indeno[1,2,3-cd]pyrene	38	0.8	<0.15 U
Naphthalene	25	0.14 J	<0.15 U
Phenanthrene	260	2.2	0.13
Pyrene	170	2.4	0.16
Pesticides			
4,4'-DDD	0.00105 J	0.00152 J	<0.00171 U
4,4'-DDE	0.00719 J	0.00229 J	<0.00171 U
4,4'-DDT	0.017	0.00043 J	<0.00171 U
Alpha Chlordane	0.00278	0.0009 J	<0.00214 U
PCBs			
Total PCBs	0.0398 U	0.0456 J	<0.0365 U
Metals			
Arsenic	15.3	12	1.99
Barium	381	379	27.9
Cadmium	2.9	2.43	0.097 J
Chromium, Hexavalent	<0.893 U	0.465 J	<0.903 U
Chromium, Trivalent	152	14.5	9.29
Copper	237	432	8.37
Lead	1,440	748	8.8
Mercury	0.619	0.517	<0.09 U
Nickel	46.4	79.1	16.3
Selenium	0.602 J	0.597 J	<1.73 U
Zinc	2,660	2,710	22.9
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00151 J	0.00154	<0.000269 U
Perfluorooctanoic Acid (PFDA)	0.000163 J	0.000173 J	<0.000269 U

Location	SB17	SB17 2-4	SB17 15-17
Sample Name	SB17 0-2	SB17 2-4	SB17 15-17
Sample Date	11/10/2022	11/10/2022	11/10/2022
Sample Depth	0-2	2-4	15-17
VOCs			
Acetone	<0.011 U	0.017	0.095
Naphthalene	<0.0043 U	<0.0036 U	<0.0038 U
SVOCs			
Acenaphthene	0.19	<0.16 U	0.025 J
Benzo[a]anthracene	1.4	0.19	0.38
Benzo[a]pyrene	1.3	0.17	0.39
Benzo[b]fluoranthene	1.6	0.3	0.43
Benzo[k]fluoranthene	0.44	0.065 J	0.16
Chrysene	1.4	0.18	0.38
Dibenz[a,h]anthracene	0.19	<0.12 U	0.08 J
Dibenzofuran	0.1 J	<0.12 U	<0.22 U
Fluoranthene	3.3	0.22	0.65
Indeno[1,2,3-cd]pyrene	0.94	0.099	0.22
Naphthalene	0.11 J	<0.09 U	<0.22 U
Phenanthrene	2.8	0.21	0.31
Pyrene	35	0.3	0.62
Pesticides			
4,4'-DDD	<0.00192 U	<0.0019 U	<0.00202 U
4,4'-DDE	0.0019 J	<0.0019 U	<0.00202 U
4,4'-DDT	<0.00192 U	<0.0019 U	<0.00202 U
Alpha Chlordane	<0.00239 U	<0.00237 U	<0.00252 U
PCBs			
Total PCBs	<0.0398 U	<0.0391 U	0.00509 J
Metals			
Arsenic	19.8	10.3	5.35
Barium	379	27.9	46.3
Cadmium	0.537 J	0.399 J	0.18 J
Chromium, Hexavalent	<0.893 U	<0.97 U	<0.903 U
Chromium, Trivalent	14.5	9.29	10.1
Copper	776	29.2	173
Lead	1,150	523	763
Mercury	0.399	0.364	<0.094 U
Nickel	16.8	13.9	12.7
Selenium	0.715 J	<1.89 U	0.721 J
Zinc	264	163	76.9
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.00065	0.000189 J	0.000236 J
Perfluorooctanoic Acid (PFDA)	0.000418	<0.000273 U	0.000536

Location	SB12	SB12 3-5	SB12 11-13
Sample Name	SB12 0-2	SB12 3-5	SB12 11-13
Sample Date	11/10/2022	11/10/2022	11/10/2022
Sample Depth	0-2	3-5	11-13
VOCs			
Acetone	<0.012 U	<0.017 U	<0.0093 U
Naphthalene	0.001 J	<0.0066 U	<0.0037 U
SVOCs			
Acenaphthene	18	1.9	0.3
Benzo[a]anthracene	15	9.1	1.3
Benzo[a]pyrene	14	8.6	1
Benzo[b]fluoranthene	16	3.8	1.3
Benzo[k]fluoranthene	3.2	3.2	0.39
Chrysene	15	8	1.2
Dibenz[a,h]anthracene	4	3.1	0.13
Dibenzofuran	1	12	0.22
Fluoranthene	39	20	3.2
Indeno[1,2,3-cd]pyrene	3.2	5.4	0.56
Naphthalene	1	13	0.15 J
Phenanthrene	30	18	3.3
Pyrene	35	17	2.6
Pesticides			
4,4'-DDD	0.000866 J	0.000955 J	<0.00182 U
4,4'-DDE	0.00767 J	0.00614 J	<0.00182 U
4,4'-DDT	0.0071	0.0017	<0.00182 U
Alpha Chlordane	0.00512	0.00352	<0.00227 U
PCBs			
Total PCBs	0.153 J	0.0356 J	<0.0367 U
Metals			
Arsenic	22.8	22.3	5.77
Barium	298	295	43.3
Cadmium	1.81	2.42	0.133 J
Chromium, Hexavalent	0.877 J	<0.927 U	<0.925 U
Chromium, Trivalent	61.8 J	9.2	12.7
Copper	275	240	14.9
Lead	728	851	49
Mercury	1	0.15	<0.094 U
Nickel	42.7	274	20.7
Selenium	0.398 J	0.425 J	<1.74 U
Zinc	1,140	739	35.5
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.000238 J	<0.000269 UJ	0.00021 J
Perfluorooctanoic Acid (PFDA)	0.000083 J	0.000128 J	0.000058 J

Legend
 Approximate Site Boundary
 Approximate Soil Boring Location

Location	SB14	SB14	SB14
Sample Name	SB14 0-2	SB14 6-8	SB14 13-15
Sample Date	11/09/2022	11/09/2022	11/09/2022
Sample Depth	0-2	6-8	13-15
VOCs			
Acetone	<0.012 U	<0.01 U	0.055 J
Acetaldehyde	<0.0046 U	<0.0041 U	<0.0038 U
SVOCs			
Acenaphthene	0.38	0.14 J	<0.15 U
Benzo[a]anthracene	2.8	0.59	<0.11 U
Benzo[a]pyrene	2.4	0.48	<0.15 U
Benzo[b]fluoranthene	3.1	0.71	<0.11 U
Benzo[k]fluoranthene	1	0.18	<0.11 U
Chrysene	2.8	0.55	<0.11 U
Dibenz[a,h]anthracene	0.38	0.068 J	<0.11 U
Dibenzofuran	0.23	0.11 J	<0.18 U
Fluoranthene	5.4	1.4	0.025 J
Indeno[1,2,3-cd]pyrene	1.8	0.32	<0.15 U
Naphthalene	0.27	0.1 J	<0.18 U
Phenanthrene	4.1	13	<0.038 J
Pyrene	5	12	0.028 J
Pesticides			
4,4'-DDD	0.0041 J	<0.00177 U	<0.00176 U
4,4'-DDE	0.00718 U	<0.00177 U	<0.00176 U
4,4'-DDT	<0.00177 U	<0.00177 U	<0.00176 U
Alpha Chlordane	<0.00223 U	<0.00221 U	<0.0022 U
PCBs			
Total PCBs	0.229	0.0371 J	<0.0368 U
Metals			
Arsenic	60.4	36.5	3.17
Barium	208	75.6	18.8
Cadmium	2.07	<0.904 U	<0.867 U
Chromium, Hexavalent	1.5 J	<0.928 U	<0.897 U
Chromium, Trivalent	23.3	11.3	7.34
Copper	133	19.5	6.35
Lead	481	121	3.56 J
Mercury	0.716	0.38	<0.072 U
Nickel	22.1	25.4	10.1
Selenium	<1.7	<1.81 U	<17.3 U
Zinc	522	16.9	16.9
PFAS			
Perfluorooctanesulfonic Acid (PFOS)	0.000564	0.000218 U	<0.000248 U
Perfluorohexanesulfonic Acid (PFHxS)	0.000664 J	0.000606 U	<0.000648 U





Location	AA01
Sample Name	AA01_111122
Sample Date	11/11/2022
Sample Type	AA
VOCs	
1,1,1-Trichloroethane	< 1.09 U
1,2,4-Trimethylbenzene	< 0.983 U
Acetone	5.18
Benzene	< 0.639 U
Carbon Disulfide	< 0.623 U
Chloroform	< 0.977 U
Chloromethane	1.16
Cyclohexane	< 0.688 U
Dichlorodifluoromethane	2.36
Ethylbenzene	< 0.869 U
Isopropanol	3.47
M,P-Xylene	< 1.74 U
Methyl Ethyl Ketone (2-Butanone)	< 1.47 U
n-Heptane	< 0.82 U
n-Hexane	< 0.705 U
o-Xylene (1,2-Dimethylbenzene)	< 0.869 U
Tetrachloroethene (PCE)	< 1.36 U
Toluene	1.08
Total Xylenes	< 0.869 U
Trichloroethene (TCE)	< 1.07 U
Trichlorofluoromethane	1.17

Location	SSV17
Sample Name	SSV17_111122
Sample Date	11/11/2022
Sample Type	SSV
VOCs	
1,1,1-Trichloroethane	< 1.09 U
1,2,4-Trimethylbenzene	2.28
Acetone	< 2.38 U
Benzene	< 0.639 U
Carbon Disulfide	2.91
Chloroform	2.39
Chloromethane	< 0.413 U
Cyclohexane	< 0.688 U
Dichlorodifluoromethane	2.32
Ethylbenzene	1.45
Isopropanol	< 1.23 U
M,P-Xylene	4.73
Methyl Ethyl Ketone (2-Butanone)	< 1.47 U
n-Heptane	< 0.82 U
n-Hexane	< 0.705 U
o-Xylene (1,2-Dimethylbenzene)	1.91
Tetrachloroethene (PCE)	83.4
Toluene	2.2
Total Xylenes	6.65
Trichloroethene (TCE)	< 1.07 U
Trichlorofluoromethane	1.4

Location	SSV20
Sample Name	SSV20_111122
Sample Date	11/11/2022
Sample Type	SSV
VOCs	
1,1,1-Trichloroethane	29
1,2,4-Trimethylbenzene	2.5
Acetone	32.1
Benzene	3.08
Carbon Disulfide	5.79
Chloroform	9.86
Chloromethane	< 0.413 U
Cyclohexane	1.04
Dichlorodifluoromethane	2.96
Ethylbenzene	11.9
Isopropanol	< 1.23 U
M,P-Xylene	43.9
Methyl Ethyl Ketone (2-Butanone)	5.54
n-Heptane	9.1
n-Hexane	6.73
o-Xylene (1,2-Dimethylbenzene)	20.7
Tetrachloroethene (PCE)	4.4
Toluene	5.95
Total Xylenes	64.7
Trichloroethene (TCE)	69.3
Trichlorofluoromethane	2.63

- Legend**
- Approximate Site Boundary
 - SSV17 Sub-Slab Vapor Point Location
 - AA01 Ambient Air Sample Location

Analyte	NYSDOH Decision Matrices Minimum Concentrations
VOCs	
1,1,1-Trichloroethane	100
1,2,4-Trimethylbenzene	NS
Acetone	NS
Benzene	NS
Carbon Disulfide	NS
Chloroform	NS
Chloromethane	NS
Cyclohexane	NS
Dichlorodifluoromethane	NS
Ethylbenzene	NS
Isopropanol	NS
M,P-Xylene	NS
Methyl Ethyl Ketone (2-Butanone)	NS
n-Heptane	NS
n-Hexane	NS
o-Xylene (1,2-Dimethylbenzene)	NS
Tetrachloroethene (PCE)	100
Toluene	NS
Total Xylenes	NS
Trichloroethene (TCE)	6
Trichlorofluoromethane	NS

Exceedance Summary:

10 - Result exceeds minimum soil vapor concentrations recommending mitigation

- Notes:**
- World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
 - All sample locations are estimated based on field measurements.
 - Sub-slab vapor sample analytical results are compared to the minimum soil vapor concentrations as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).
 - Only detections of VOCs are shown.
 - Ambient air sampling results are shown for reference only.
 - ug/m3 - micrograms per cubic meter
 - VOCs = Volatile Organic Compounds
 - NS = No Standard

Qualifiers:
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the reporting limit (RL) or the sample concentration for results impacted by blank contamination.

LANGAN

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

Project

125 3RD STREET
BLOCK No. 462, LOT No. 6
BROOKLYN

KINGS COUNTY

NEW YORK

Figure Title

**SOIL VAPOR
SAMPLE ANALYTICAL
RESULTS MAP**

Project No.

170698601

Date

4/10/2023

Scale

1 Inch = 30 feet

Drawn By

MG/PDT

Figure No.

9

Sheet 9 of 9

APPENDIX A

PREVIOUS ENVIRONMENTAL REPORTS

****FULL REPORTS IN ZIP FILE***

APPENDIX B

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Properties

125 3rd Street,

Brooklyn, New York 11231

NOVA PROJECT NUMBER:

21-2367

DATED:

September 13, 2021

PREPARED FOR:

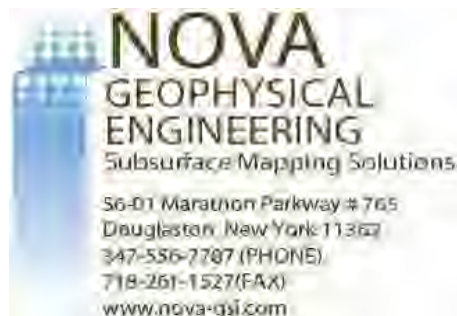
LANGAN

21 Penn Plaza

360 West 31st Street, 8th Floor

Brooklyn, New York 11217-2727

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS

56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

September 13, 2021

Joseph Yanowitz
Senior Staff Engineer

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
Bronx, New York 10472-2727
Direct: 212.479.5496
Mobile: 845.270.4690
E: jyanowitz@langan.com

Re: Geophysical Engineering Survey (GES) Report
Commercial Properties
125 3rd Street,
Brooklyn, New York 11231
Langan Project # 170698601

Dear Mr. Yanowitz.

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 125 43rd Street, Brooklyn, New York 11231 (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks (USTs) and other substructures within the vicinity of proposed boring locations on September 7th, 2021.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a RadioDetection RD7100 Electromagnetic utility locator.

A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where

there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

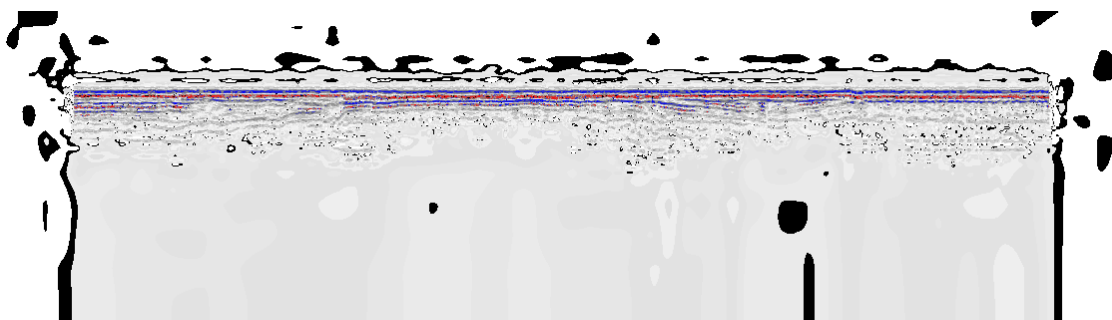
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

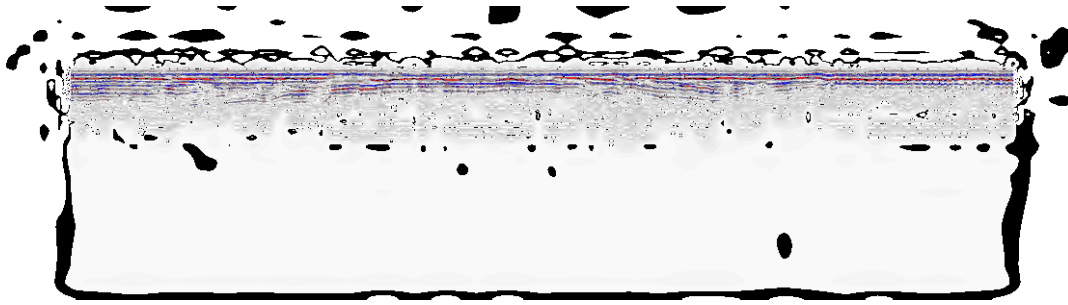
DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

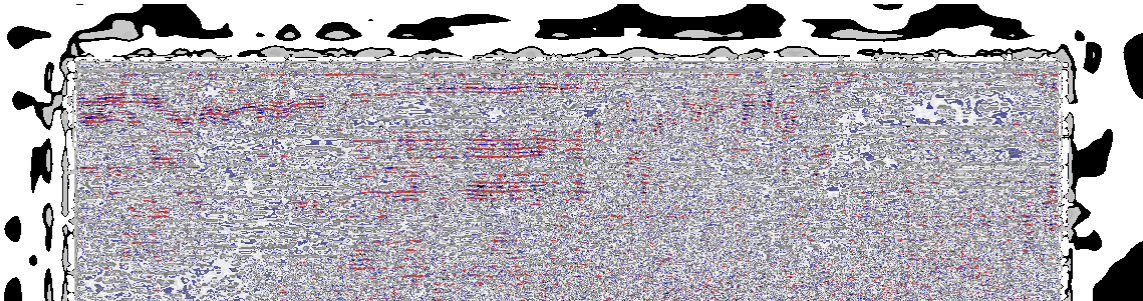
Step 1. Import Raw RAMAC data to standard processing format



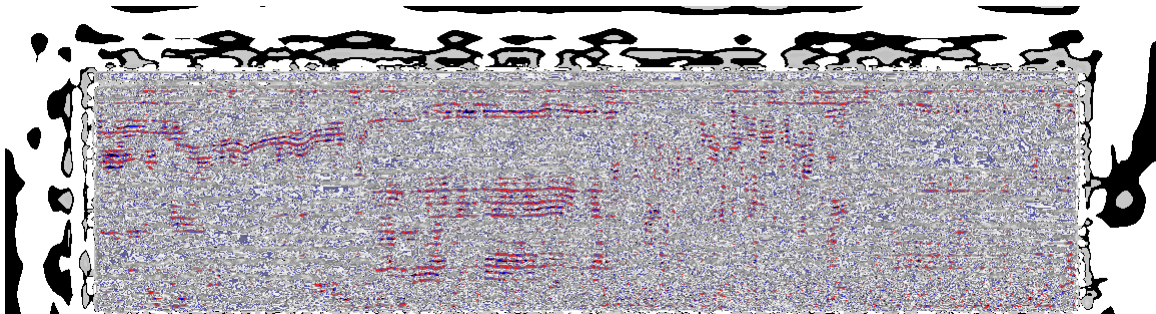
Step 2. Remove instrument noise (*dewow*)



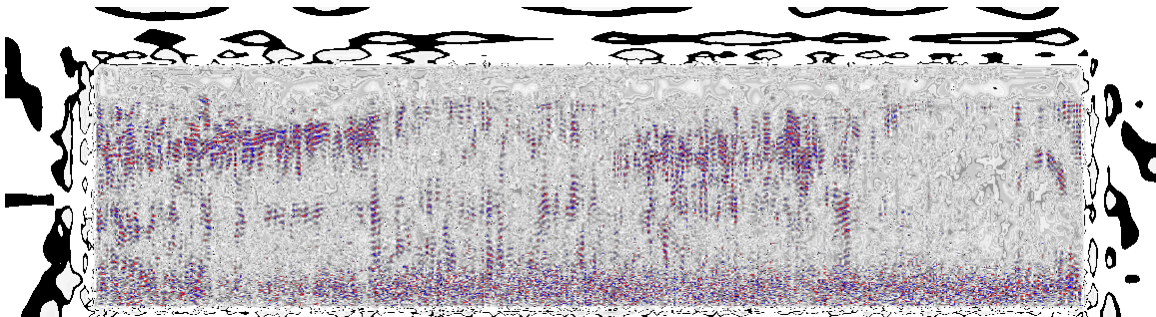
Step 3. Correct for attenuation losses (*energy decay function*)



Step 4. Remove static from bottom of profile (*time cut*)



Step 5. Mute horizontal ringing/noise (*subtracting average*)



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Overcast

Temperature: 75° F

Surface: Concrete/asphalt and unpaved

Survey Parameters: A GPR grid scan was conducted within the survey areas as shown on the survey plan. The approximate line spacing of the grid survey was approximately 5'. Additional GPR data was collected over features of interest and in the vicinity of proposed boring locations. An EM utility locator was used in conjunction with GPR throughout the survey area.

Limitations: The geophysical noise level at the site was high due to being located in an urban environment and parked trucks and reinforced concrete.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as telecom) were identified within the survey area. The approximate locations are shown in the survey plan.
- The GES identified multiple floor drains located throughout of the site buildings. All of the identified floor drains were interconnected with their final destination to the public sewer on 3rd Street and 2nd Street.
- No large geophysical anomalies resembling an underground storage tank (UST) were identified during the GES.
- NOVA cleared and marked all of the proposed Geotechnical boring locations.
- All cleared boring (environmental) locations are shown in the survey plan.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.

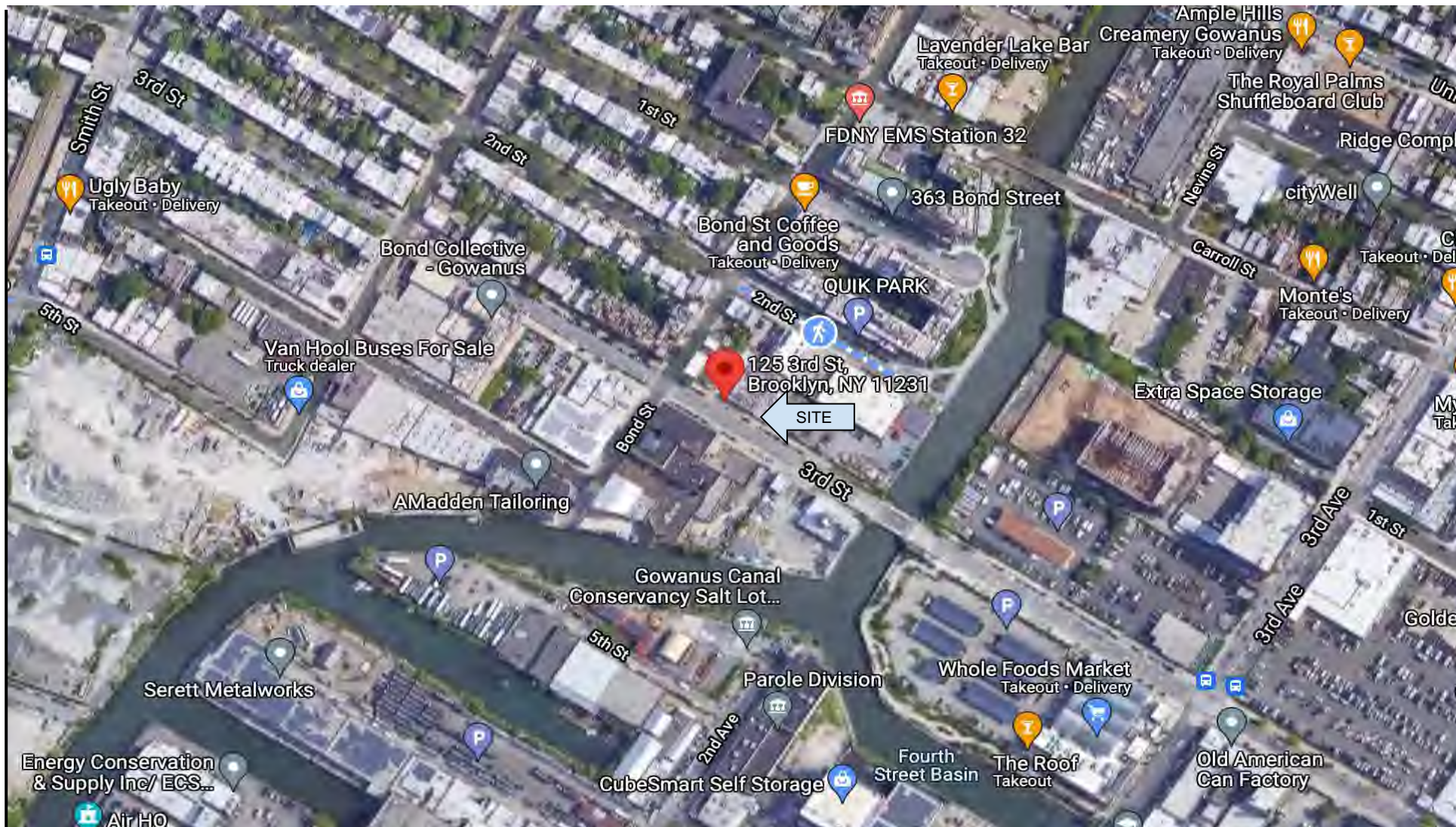
Project Manager

Attachments:

Location Map

Survey Plan

Geophysical Images



	LOCATION MAP	LEGEND
NOVA Geophysical Services Subsurface Mapping Solutions 56-01 Marathon Parkway, # 765 Douglaston, New York 11362 Phone (347) 556-7787 * Fax (718) 261-1527 www.novagsi.com	SITE: Commercial Properties 125 3rd Street Brooklyn, New York 11231 CLIENT: Langan DATE: September 7, 2021 AUTH: Levent E.	



NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

SURVEY PLAN

SITE: **Commercial Properties**
125 3rd Street
Brooklyn, New York 11231

CLIENT: Langan

DATE: September 7th, 2021

AUTH: Levent E.

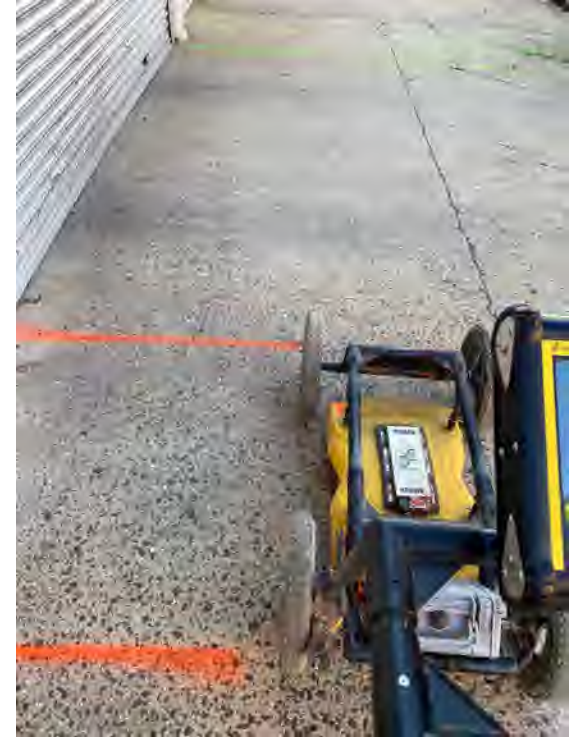
LEGEND

Survey Area

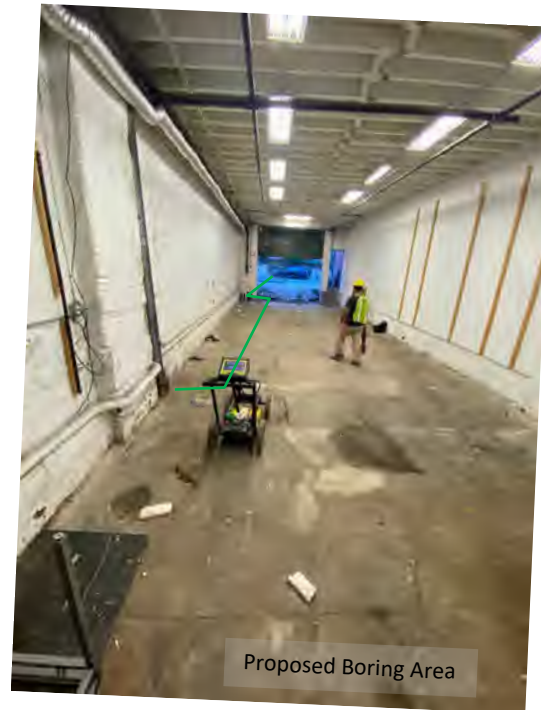
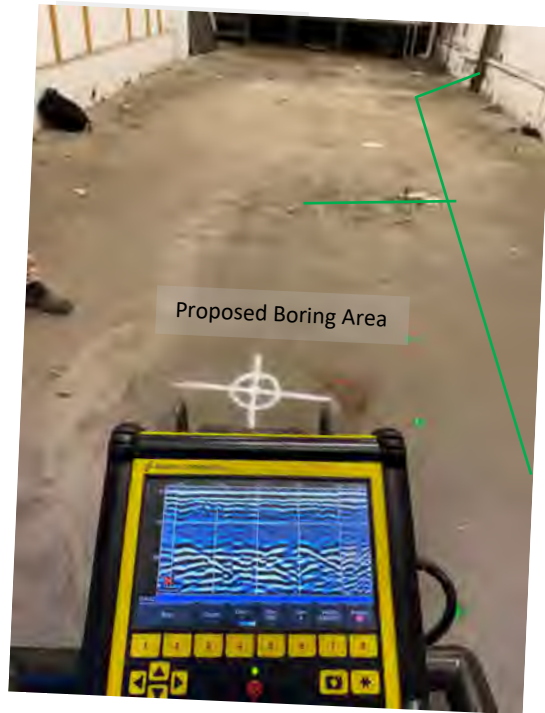
— — — Utilities

⊕ Boring

GEOPHYSICAL IMAGES
Commercial Properties
125 3rd Street, Brooklyn, New York 11231
September 7, 2021



Subsurface Utilities

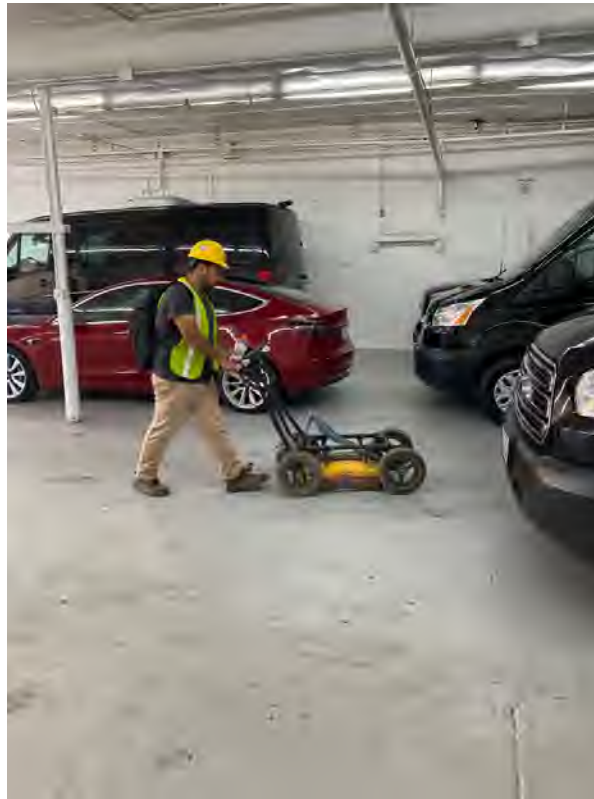




GEOPHYSICAL IMAGES
Commercial Properties
125 3rd Street, Brooklyn, New York 11231
September 7, 2021



GEOPHYSICAL IMAGES
Commercial Properties
125 3rd Street, Brooklyn, New York 11231
September 7, 2021



GEOPHYSICAL IMAGES
Commercial Properties
125 3rd Street, Brooklyn, New York 11231
September 7, 2021



APPENDIX C

SOIL BORING LOGS

Project Third Street Gowanus				Project No. 170698601																																																																																																																																																																																																																																			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A																																																																																																																																																																																																																																			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/15/2022		Date Finished 11/15/2022																																																																																																																																																																																																																																	
Drilling Equipment Geoprobe 54LT				Completion Depth 8 ft		Rock Depth N/A																																																																																																																																																																																																																																	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 2		Disturbed N/A																																																																																																																																																																																																																																	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A																																																																																																																																																																																																																																	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Water Level (ft.) First ∇ 5																																																																																																																																																																																																																																	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago																																																																																																																																																																																																																																			
Sampler Hammer N/A				Field Engineer Tom Herold																																																																																																																																																																																																																																			
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End of boring at 8ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/15/2022		Date Finished 11/15/2022	
Drilling Equipment Geoprobe 54LT				Completion Depth 8 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 2		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Completion N/A	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Tom Herold			
Weight (lbs) N/A				Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BLU/in	PID (ppm)	
		Concrete	0						
		Reddish brown fine SAND, trace silt, coal, brick (moist)[FILL]	1	M-1A	Macrocore	32/48		0.0	
		Dark gray SILT (quick dilatancy), trace fine sand, brick (moist)[FILL]	2	M-1B	Macrocore	32/48		0.0	
		Dark gray SILT (quick dilatancy), trace fine sand, brick, wood construction debris (moist)[FILL]	4	M-2A	Macrocore	30/48		0.0	
		Dark brown SILT (quick dilatancy), trace fine sand (wet)[ML]	5	M-2B	Macrocore	30/48		0.0	
			6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
			10					0.0	
			11						End of boring at 8ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/10/2022		Date Finished 11/10/2022	
Drilling Equipment Geoprobe 54LT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples	Disturbed 5	Undisturbed N/A	Core N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ▽ 3.3	Completion ▼ N/A	24 HR. ▽ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Ernesto Santiago	
Sampler 4-ft Macrocore				Field Engineer Ali Reach			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BL/6in		
		Dark reddish brown to light tan medium SAND, some fine gravel, trace silt (moist)[FILL]	0						0.0	Sampled SB10_0-2
			1						0.0	
			2						0.0	
			3						0.0	
		Light orangish brown fine SAND, some clay, wood construction debris (moist)[FILL]	3							Sampled SB10_3-5
		Light brown fine SAND, some clay (wet)[FILL]	4						0.0	
		Light gray fine GRAVEL, trace fine sand (wet)[FILL]	5						0.0	
		Light brown fine SAND, some clay (wet)[FILL]	6						0.0	
		Light grayish brown to dark brown fine SAND, trace fine gravel (wet)[FILL]	7							Sampled SB10_11-13
		Brown to tannish brown fine SAND, some silt, trace fine gravel (wet)[SM]	8							
			9						0.0	
			10						0.0	
			11						0.0	
		Reddish brown fine SAND, some silt (wet)[SM]	12						0.0	
		Reddish brown fine GRAVEL (wet)[GP]	13	M-4A					0.0	
		Reddish brown fine SAND, some silt (wet)[SM]	14	M-4B					0.0	
			15	M-4C					0.0	
		Light brown fine SAND, some silt (wet)[SM]	16	M-5A					0.0	
		Brown to dark brown CLAY, (1/16th ribbon; no dilatancy), fibrous vegetation (wet)[CL]	17							19-20ft: Decomposing-vegetation-like odor End of boring at 20ft. Backfilled with clean sand to 12ft. Set 10 ft of 0.010-slot screen at 12 ft.
			18						0.0	
			19						0.0	
			20						0.0	

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Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/10/2022		Date Finished 11/10/2022	
Drilling Equipment Geoprobe 54LT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 5		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Ali Reach			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID (ppm)	
		Dark gray medium SAND, coal, slag, gravel, brick, concrete, mortar (moist)[FILL]	0	M-1	Macrocore	20/48		0.0	Sampled SB11_0-2
			1					0.0	
			2					0.0	
			3						
		Dark gray to brownish gray fine SAND, fine gravel, trace silt, brick, slag, glass, coal (moist)[FILL]	4	M-2	Macrocore	36/48		0.0	Sampled SB11_3-5
			5					0.0	
			6					0.0	
			7					0.0	
		Light brown fine SAND, some silt (wet)[SM]	8	M-3A	Macrocore	24/48		0.0	Sampled SB11_11-13
			9					0.0	
			10					0.0	
			11					0.0	
		Light brown to gray GRAVEL (wet)[GC]	12	M-3B	Macrocore	30/48		0.0	
			13					0.0	
			14					0.0	
			15					0.0	
		Orangish brown fine SAND, trace silt, trace fine gravel (wet)[SP]	16	M-4A	Macrocore	36/48		0.0	End of boring at 20ft. Borehole backfilled with soil cuttings and clean sand.
			17					0.0	
			18					0.0	
			19					0.0	
		Dark gray CLAY, (1/32 ribbon; no dilatancy) (wet)[CH]	20	M-4B	Macrocore			0.0	
		Orangish brown fine SAND, some silt, trace fine gravel (wet)[SM]						0.0	
		Orangish brown fine SAND, some silt, trace fine gravel (wet)[SM]		M-4C	Macrocore			0.0	
								0.0	

Project Third Street Gowanus				Project No. 170698601																																																																																																																																																																																																													
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Drilling Equipment Geoprobe 54LT				Completion Depth 16 ft		Rock Depth N/A																																																																																																																																																																																																											
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Project	Third Street Gowanus			Project No.	170698601		
Location	125 3rd Street, Brooklyn, NY			Elevation and Datum	N/A		
Drilling Company	Eastern Environmental Solutions, Inc.			Date Started	11/11/2022	Date Finished	
Drilling Equipment	Geoprobe 54LT			Completion Depth	20 ft	Rock Depth	
Size and Type of Bit	2-Inch ID Direct Push			Number of Samples	5	Disturbed	Undisturbed
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First	6	Completion
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	24 HR.	N/A
Sampler	4-ft Macrocore			Drilling Foreman	Ernesto Santiago		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	Field Engineer	Tom Herold

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	PID (ppm)	
		Dark gray fine SAND, trace silt, glass, wood construction debris, coal (moist)[FILL]	0					0.0	
			1					0.0	
			2	M-1	Macrocore	24/48		0.0	Sampled SB13_0-2
			3					0.0	
		Dark gray fine SAND, some silt, brick (moist)[FILL]	4					0.0	
			5					0.0	
			6	M-2	Macrocore	32/48		0.0	Sampled SB13_4-6 (MS/MSD)
			7					0.0	
		Light brown SILT (quick dilatancy), trace fine sand, woody vegetation (wet)[ML]	8					0.0	
			9					0.0	
			10	M-3	Macrocore	27/48		0.0	
			11					0.0	Sampled SB13_10-12
		Light brown SILT (quick dilatancy), trace fine sand, woody vegetation (wet)[ML]	12					0.0	
			13					0.0	
			14	M-4	Macrocore	26/48		0.0	
			15					0.0	
		Light brown SILT (quick dilatancy), trace fine sand, woody vegetation (wet)[ML]	16					0.0	
			17	M-5A				0.0	
			18					0.0	
		Dark gray CLAY, (1/32 ribbon; no dilatancy), fibrous vegetation (moist)[CH]	19	M-5B	Macrocore	48/48		0.0	End of boring at 20ft. Backfilled with clean sand to 12ft. Set 10ft of 0.010-slot screen at 12ft.
			20					0.0	

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/09/2022		Date Finished 11/09/2022	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 4		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Water Level (ft.) First ∇ 7	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Ali Reach			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BLU6in		
		Dark brown fine SAND, trace silt, brick, gravel, concrete, coal, slag (moist)[FILL]	0						0.0	Sampled SB14_0-2
			1						90	
			2	M-1	MACROCORE	24/48			0.0	
			3						0.0	
		Light brown to tannish brown fine SAND, trace silt, concrete, gravel, wood construction debris (moist)[FILL]	4						0.0	Sampled SB14_6-8
			5	M-2	MACROCORE	24/48			0.0	
			6						0.0	
			7						0.0	
		Light brown to tannish brown fine SAND, trace silt, concrete, gravel, wood construction debris (wet)[FILL]	8						0.0	
		Dark brown fine SAND, brick, gravel, wood construction debris, coal, coal ash (moist)[FILL]	9						0.0	
			10	M-3	MACROCORE	18/48			0.0	
			11						0.0	
		Tannish brown fine SAND, trace silt, brick, mortar (wet)[FILL]	12						0.0	Sampled SB14_13-15
		Tannish brown fine-medium SAND, some silt, trace fine gravel (wet)[SM]	13						0.0	
			14	M-4	Macrocore	36/48			0.0	
			15						0.0	
			16						0.0	End of boring at 16ft. Borehole backfilled with soil cuttings and clean sand.
			17							
			18							
			19							
			20							

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/09/2022		Date Finished 11/09/2022	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 5		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 7.5		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		24 HR. ∇ N/A	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Ali Reach			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	PID (ppm)	
		Dark brown fine SAND, brick, mortar, concrete, coal, coal ash, slag (moist)[FILL]	0					0.0	Sampled SB15_0-2
			1					0.0	
			2	M-1	Macrocore	18/48		0.0	
			3						
		Dark brown fine SAND, brick, mortar, concrete, coal, coal ash, slag, wood, glass (moist)[FILL]	4						Sampled SB15_5.5-7.5
			5					0.0	
			6	M-2	Macrocore	30/48		0.0	
			7					0.0	
		Dark brown fine SAND, mortar, coal, coal ash, gravel (moist)[FILL]	8					0.0	
			9					0.0	
		Reddish brown fine SAND, trace silt, gravel (wet)[FILL]	10	M-3A	Macrocore	36/48		0.0	
			11					0.0	
		Reddish brown fine SAND, trace silt, Gravel (wet)[FILL]	12	M-3B	Macrocore			0.0	Sampled SB15_15-17
			13					0.0	
			14	M-4A	Macrocore	40/48		0.0	
			15					0.0	
		Tannish brown to reddish tan fine SAND, trace silt, trace fine gravel (wet)[SP]	16	M-4B	Macrocore			0.0	
			17	M-5A	Macrocore			0.0	
		Tannish brown to reddish tan fine SAND, trace silt, trace fine gravel (wet)[SP]	18					0.0	
		Gray to dark gray CLAY, (1/16 ribbon; no dilatancy) (wet)[CL]	19	M-5B	Macrocore	48/48		0.0	
			20					0.0	End of boring at 20ft. Borehole backfilled with soil cuttings and clean sand.

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/09/2022		Date Finished 11/09/2022	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples	Disturbed 5	Undisturbed N/A	Core N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ▽ 7.5	Completion ▼ N/A	24 HR. ▽ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Ernesto Santiago	
Sampler 4-ft Macrocore				Field Engineer			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Ali Reach	

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BLU/in	PID (ppm)	
		Dark brown fine SAND, trace silt, glass, brick, wood, coal, coal ash, slag (moist)[FILL]	0					0.0	Sampled SB16_0-2 and SBDUP01_110922
			1					0.0	
			2	M-1	Macrocore	24/48		0.0	
			3					0.0	
		Dark brown fine SAND, trace silt, brick, mortar, wood, coal, coal ash, concrete (moist)[FILL]	4					0.0	Sampled SB16_5.5-7.5
			5					0.0	
			6	M-2	Macrocore	24/48		0.0	
			7					0.0	
		Dark brown fine SAND, trace silt, brick, gravel (wet)[FILL]	8					0.0	Sampled SB16_11-12
			9					0.0	
			10	M-3A	Macrocore	24/48		0.0	
			11					0.0	
		Tannish brown to reddish brown fine SAND, trace silt, trace fine gravel (wet)[SP]	12	M-3B				0.0	End of boring at 20ft. Backfilled with clean sand to 16ft. Set 10ft of 0.010-slot screen at 16ft.
		No Recovery	13					0.0	
			14	M-4	Macrocore	0/48		0.0	
			15					0.0	
		Tannish brown to reddish brown fine SAND, some silt, trace fine gravel (wet)[SM]	16					0.0	
			17					0.0	
			18	M-5A	Macrocore	42/48		0.0	
			19					0.0	
		Gray to dark gray CLAY, (1/16 ribbon; no dilatancy), fibrous vegetation (wet)[CL]	20	M-5B				0.0	

Project	Third Street Gowanus			Project No.	170698601		
Location	125 3rd Street, Brooklyn, NY			Elevation and Datum	N/A		
Drilling Company	Eastern Environmental Solutions, Inc.			Date Started	11/10/2022	Date Finished	
Drilling Equipment	Geoprobe 54LT			Completion Depth	20 ft	Rock Depth	
Size and Type of Bit	2-Inch ID Direct Push			Number of Samples	5	Disturbed	Undisturbed
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First	2	Completion
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	24 HR.	N/A
Drilling Foreman	Ernesto Santiago			Field Engineer	Ali Reach		
Sampler	4-ft Macrocore			Field Engineer	Ali Reach		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A		

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	PID (ppm)	
	0	Concrete	0						
	1	Dark gray to black fine SAND, trace silt, coal, slag, wood construction debris, glass (moist)[FILL]	1	M-1A	Macrocore	36/48		0.0	Sample SB17_0-2
	2	Light orangish brown fine SAND, trace silt, trace fine gravel, brick, concrete (wet)[FILL]	2					0.0	
	3		3	M-1B	Macrocore			0.0	Sampled SB17_2-4
	4	Light orangish brown fine SAND, trace silt, trace fine gravel (wet)[FILL]	4					0.0	
	5		5					0.0	
	6		6	M-2	Macrocore	18/48		0.0	
	7		7						
	8	Light orangish brown fine SAND, trace silt, trace fine gravel, construction debris, wood (wet)[FILL]	8						
	9		9						
	10		10	M-3	Macrocore	30/48		0.0	
	11		11					0.0	
	12	Tannish brown fine-medium SAND, some silt, trace fine gravel, (bimodal) (wet)[SM]	12					0.0	
	13		13					0.0	
	14		14	M-4	Macrocore	18/48		0.0	
	15		15					0.0	
	16	Tannish brown fine-medium SAND, some silt, trace fine gravel, (bimodal) (wet)[SM]	16					0.0	Sampled SB17_15-17
	17	Gray to dark gray CLAY (1/32 ribbon; no dilatancy) (wet)[CH]	17	M-5A	Macrocore			16.2	
	18		18	M-5B	Macrocore	48/48		8.6	End of boring at 20ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.
	19	Gray CLAY, (1/16 ribbon; no dilatancy), fibrous vegetation (wet)[CL]	19					12.9	
	20		20	M-5C	Macrocore			14.2	
								31.3	

Project Third Street Gowanus				Project No. 170698601																																																																																																																																																																			
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Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/11/2022		Date Finished 11/11/2022	
Drilling Equipment Geoprobe 54LT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 4		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 5		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Tom Herold			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BL/6in		
		Concrete	0							
		Dark brown fine SAND, some silt, brick (moist)[FILL]	1						0.0	Sampled SB19_0-2
			2						0.0	
			3						0.0	
		Dark brown fine SAND, some silt, brick (moist)[FILL]	4						0.0	Sampled SB19_3-5
		Dark gray medium SAND, trace silt, brick (wet)[FILL]	5						0.0	
			6						0.0	
			7						0.0	
		Dark gray medium SAND, trace silt, glass (wet)[FILL]	8							
			9							
			10						0.0	
			11						0.0	
		Dark brown SILT (quick dilatancy), trace fine sand (wet)[ML]	12						0.0	Sampled SB19_11-13
			13						0.0	
			14						0.0	
			15						0.0	
		Dark gray CLAY (1/32 ribbon; no dilatancy), fibrous vegetation (moist)[CH]	16							End of boring at 16ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.
			17							
			18							
			19							
			20							

Project				Project No.			
Third Street Gowanus				170698601			
Location				Elevation and Datum			
125 3rd Street, Brooklyn, NY				N/A			
Drilling Company				Date Started		Date Finished	
Eastern Environmental Solutions, Inc.				11/15/2022		11/15/2022	
Drilling Equipment				Completion Depth		Rock Depth	
Geoprobe 54LT				16 ft		N/A	
Size and Type of Bit				Number of Samples		Disturbed	
2-Inch ID Direct Push				4		Undisturbed	
Casing Diameter (in)				First		Core	
N/A				N/A		N/A	
Casing Diameter (in)		Casing Depth (ft)		Water Level (ft.)		Completion	
N/A		N/A		First		24 HR.	
Casing Hammer		Weight (lbs)		Drop (in)		N/A	
N/A		N/A		N/A		N/A	
Sampler				Drilling Foreman			
4-ft Macrocore				Ernesto Santiago			
Sampler Hammer				Field Engineer			
N/A				Tom Herold			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BL/6in	PID (ppm)	
		Concrete	0						
		Dark brown SILT (quick dilatancy), some fine sand, brick, coal (moist)[FILL]	1					0.0	Sampled SB20_0-2 (MS/MSD)
			2	M-1	Macrocore	30/48		0.0	
			3					0.0	
		Dark brown SILT (quick dilatancy), some fine sand, wood construction debris (moist)[FILL]	4					0.0	Sampled SB20_4-6
			5	M-2A	Macrocore	30/48		0.0	
		Dark gray SILT (quick dilatancy), trace sand, brick (wet)[FILL]	6					0.0	
			7	M-2B	Macrocore	30/48		0.0	
		Dark gray SILT (quick dilatancy), trace fine sand, shells, (wet)[ML]	8						Sampled SB20_10-12
			9	M-3	Macrocore	12/48		0.0	
			10					0.0	
			11					0.0	
		Dark gray CLAY (1/32 ribbon; no dilatancy), fibrous vegetation (moist)[CH]	12						End of boring at 16ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.
			13	M-4	Macrocore	6/48		0.0	
			14						
			15						
			16						
			17						
			18						
			19						
			20						

Project				Project No.						
Third Street Gowanus				170698601						
Location				Elevation and Datum						
125 3rd Street, Brooklyn, NY				N/A						
Drilling Company				Date Started		Date Finished				
Eastern Environmental Solutions, Inc.				11/14/2022		11/14/2022				
Drilling Equipment				Completion Depth		Rock Depth				
Geoprobe 54LT				16 ft		N/A				
Size and Type of Bit				Number of Samples		Undisturbed				
2-Inch ID Direct Push				4		N/A				
Casing Diameter (in)				Water Level (ft.)		Completion				
N/A		Casing Depth (ft)		First		24 HR.				
N/A		N/A		6		N/A				
Casing Hammer		Weight (lbs)		Drop (in)		Drilling Foreman				
N/A		N/A		N/A		Ernesto Santiago				
Sampler				Field Engineer						
4-ft Macrocore				Tom Herold						
Sampler Hammer		Weight (lbs)		Drop (in)						
N/A		N/A		N/A						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/6in	PID (ppm)		
		Concrete	0	M-1	Macrocore	26/48		0.0	Sampled SB21_0-2 and SBDUP02_111422	
		Brown fine SAND, some silt, trace gravel , coal (moist)[FILL]	1							0.0
		Dark brown fine SAND, some silt, brick (moist)[FILL]	2							0.0
			3							0.0
		Dark gray medium SAND, some silt, trace fine gravel, ceramic (wet)[FILL]	4	0.0						
			5	0.0						
			6	0.0						
			7	0.0						
		Brown fine SAND, trace silt, trace fine gravel (wet)[SP]	8	0.0						
			9	0.0						
		Brown SILT (quick dilatancy), some sand, trace gravel (moist)[ML]	10	0.0						
			11	0.0						
		Dark gray CLAY (1/32 ribbon; no dilatancy), fibrous vegetation (wet)[CH]	12	0.0						
			13	0.0						
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			293	0.0						
			294	0.0						
			295	0.0						
			296	0.0						
			297	0.0						
			298	0.0						
			299	0.0						
			300	0.0						
			301	0.0						
			302	0.0						
			303	0.0						
			304	0.0						
			305	0.0						
			306	0.0						
			307	0.0						
			308	0.0						
			309	0.0						
			310	0.0						
			311	0.0						
			312	0.0						
			313	0.0						
			314	0.0						
			315	0.0						
			316	0.0						
			317	0.0						
			318	0.0						
			319	0.0						
			320	0.0						
			321	0.0						
			322	0.0						
			323	0.0						
			324	0.0						
			325	0.0						
			326	0.0						

Project Third Street Gowanus				Project No. 170698601			
Location 125 3rd Street, Brooklyn, NY				Elevation and Datum N/A			
Drilling Company Eastern Environmental Solutions, Inc.				Date Started 11/15/2022		Date Finished 11/15/2022	
Drilling Equipment Geoprobe 54LT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-Inch ID Direct Push				Number of Samples 4		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Water Level (ft.) First 5	
Sampler 4-ft Macrocore				Drilling Foreman Ernesto Santiago			
Sampler Hammer N/A				Field Engineer Tom Herold			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					PID (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BLU6in		
		Concrete	0							
		Reddish brown to dark gray fine SAND, some silt, coal, brick (moist)[FILL]	1						0.0	Sampled SB22_0-2 and SBDUP03_111522
			2	M-1	Macrocore	32/48			0.0	
			3						0.0	
		Dark gray SILT (quick dilatancy), wood construction debris, brick (moist)[FILL]	4							Sampled SB22_3-5 (MS/MSD)
			5	M-2A	Macrocore	29/48			0.0	
			6						0.0	
			7						0.0	
		Dark brown SILT (quick dilatancy), trace fine sand (wet)[ML]	8							Sampled SB22_7-9
			9	M-2B	Macrocore					
			10							
			11							
		Dark brown SILT (quick dilatancy), trace fine sand (wet)[ML]	12	M-3	Macrocore	40/48			0.0	
			13						0.0	
			14						0.0	
			15						0.0	
		Dark gray CLAY (1/32 ribbon; no dilatancy), fibrous vegetation (moist)[CH]	16	M-4	Macrocore	12/48			0.0	End of boring at 16ft. Borehole backfilled with soil cuttings and clean sand, patched at grade with concrete.
			17							
			18							
			19							
			20							

Project	Third Street Gowanus			Project No.	170698601		
Location	125 3rd Street, Brooklyn, NY			Elevation and Datum	N/A		
Drilling Company	Eastern Environmental Solutions, Inc.			Date Started	11/14/2022	Date Finished	
Drilling Equipment	Geoprobe 54LT			Completion Depth	16 ft	Rock Depth	
Size and Type of Bit	2-Inch ID Direct Push			Number of Samples	4	Disturbed	Undisturbed
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First	Completion	Core
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	24 HR.	N/A
Sampler	4-ft Macrocore			Drilling Foreman	Ernesto Santiago		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A	Field Engineer	Tom Herold

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	PID (ppm)	
		Concrete	0						
		Dark brown fine SAND, concrete, brick, some clay, trace silt (moist)[FILL]	1					0.0	Sampled SB23_0-2
			2	M-1	Macrocore	38/48		0.0	
			3					0.0	
		Gray SILT (quick dilatancy), trace fine sand, wood construction debris, (wet)[FILL]	4					0.0	Sampled SB23_4-6
			5					0.0	
			6	M-2A	Macrocore	33/48		0.0	
			7					0.0	
		Dark brown SILT (quick dilatancy), trace sand (wet)[ML]	8	M-2B					Sampled SB23_7-9
		Dark brown SILT (quick dilatancy), trace fine sand, thin gravel layer (wet)[ML]	9						
			10	M-3	Macrocore	34/48		0.0	
			11					0.0	
		Gray CLAY (1/16 ribbon; no dilatancy) (wet)[CL]	12					0.0	End of boring at 16ft. Backfilled with clean sand to 12ft. Set 10ft of 0.010-slot screen at 12ft.
			13						
			14	M-4	Macrocore	4/48			
			15					0.0	
			16						
			17						
			18						
			19						
			20						

APPENDIX D

MONITORING WELL CONSTRUCTION LOGS

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY					
Well No. MW01					
PROJECT			PROJECT NO.		
125 3rd Street			170698601		
LOCATION			ELEVATION AND DATUM		
Brooklyn, NY			el. 8.63 NAVD88		
DRILLING AGENCY			DATE STARTED		DATE FINISHED
Lakewood Environmental Services, Corp.			9/7/2021		9/7/2021
DRILLING EQUIPMENT			DRILLER		
Geoprobe® 6610 DT			Tim Kelly		
SIZE AND TYPE OF BIT			INSPECTOR		
4-foot macrocore			Caroline Grattan		
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)		
2-inch			Overburden		
RISER MATERIAL	DIAMETER		TYPE OF BACKFILL MATERIAL		
PVC	2-Inch		No. 2 Sand		
TYPE OF SCREEN	DIAMETER		TYPE OF WELL PACK	TYPE OF SEAL MATERIAL	
PVC No. 10 slot	2-Inch		No. 2 Sand	Bentonite	
METHOD OF INSTALLATION					
Geoprobe 6610 DT was used to advance the boring to approximately 12 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 8 feet of 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. Well screen was installed from approximately 4 to 12 feet bgs with riser to grade surface. The well was finished with a flush mounted road box and concrete pad. The well was developed by Langan on 9/9/2021.					
WELL DEVELOPMENT DATA					
SURGE BLOCK DIAMETER		N/A	TYPE PUMP		Whale Pump
DRILLER OR LANGAN		Langan	MAX PUMP RATE		0.6 gal/min
NUMBER OF SURGE CYCLES		N/A	TOTAL VOLUME		12 gallons
Well developed from 19:00-19:20 until purged groundwater was no longer turbid.					
TOP OF CASING			ELEVATION		DEPTH (ft)
			8.63		0.00
TOP OF SEAL			ELEVATION		DEPTH (ft)
			8.13		0.50
TOP OF FILTER			ELEVATION		DEPTH (ft)
			5.63		3.00
TOP OF SCREEN			ELEVATION		DEPTH (ft)
			4.63		4.00
BOTTOM OF BORING			ELEVATION		DEPTH (ft)
			-3.37		12.00
SCREEN LENGTH (ft)			8		
SLOT SIZE			No. 10 Slot, 0.010 Inches		
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER			
3.74	9/10/2021	4.89 ft			
ELEVATION	DATE	DEPTH TO WATER			
2.88	11/22/2022	5.75 ft			
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
WELL DETAILS			SUMMARY SOIL CLASSIFICATION		
Cover			Grout		
Riser			Seal		
PVC			Screen		
			0		
			0.5		
			3		
			4.00		
			12.00		
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor, New York					

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY					
Well No. MW08					
PROJECT			PROJECT NO.		
125 3rd Street			170698601		
LOCATION			ELEVATION AND DATUM		
Brooklyn, NY			el. 8.18 NAVD88		
DRILLING AGENCY			DATE STARTED	DATE FINISHED	
Lakewood Environmental Services, Corp.			9/7/2021	9/7/2021	
DRILLING EQUIPMENT			DRILLER		
Geoprobe® 54LT			Tim Kelly		
SIZE AND TYPE OF BIT			INSPECTOR		
4-foot macrocore			Caroline Grattan		
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)		
2-inch			Overburden		
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL			
PVC	2-Inch	No. 2 Sand			
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL		
PVC No. 10 slot	2-Inch	No. 2 Sand	Bentonite		
METHOD OF INSTALLATION					
Geoprobe 6610 DT was used to advance the boring to approximately 12 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 9 feet of 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. Well screen was installed from approximately 3 to 12 feet bgs with riser to grade surface. The well was finished with a flush mounted road box and concrete pad. The well was developed by Langan on 9/9/2021.					
WELL DEVELOPMENT DATA					
SURGE BLOCK DIAMETER		N/A	TYPE PUMP	Whale Pump	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN		Langan	MAX PUMP RATE	0.6 gal/min	
NUMBER OF SURGE CYCLES		N/A	TOTAL VOLUME	10 gallons	
TOP OF CASING			ELEVATION		DEPTH (ft)
			8.18		0.00
TOP OF SEAL			ELEVATION		DEPTH (ft)
			7.68		0.50
TOP OF FILTER			ELEVATION		DEPTH (ft)
			6.18		2.00
TOP OF SCREEN			ELEVATION		DEPTH (ft)
			5.18		3.00
BOTTOM OF BORING			ELEVATION		DEPTH (ft)
			-3.82		12.00
SCREEN LENGTH (ft)			9		
SLOT SIZE			No. 10 Slot, 0.010 Inches		
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER			
3.22	9/10/2021	4.96 ft			
ELEVATION	DATE	DEPTH TO WATER			
3.2	11/22/2022	4.98 ft			
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
			WELL DETAILS		SUMMARY SOIL CLASSIFICATION
					DEPTH (FT)
					0
					0.5
					2
					3.00
					12.00
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor, New York					

Well No. MW13

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY						
Well No. MW16						
PROJECT			PROJECT NO.			
125 3rd Street			170698601			
LOCATION			ELEVATION AND DATUM			
Brooklyn, NY			el. 9.41 NAVD88			
DRILLING AGENCY			DATE STARTED	DATE FINISHED		
Eastern Environmental Services Corp.			11/11/2022	11/11/2022		
DRILLING EQUIPMENT			DRILLER			
Geoprobe® 54LT			Ernesto Santiago			
SIZE AND TYPE OF BIT			INSPECTOR			
4-foot macrocore			Tom Herold			
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)			
2-inch			Overburden			
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL				
PVC	2	Grout				
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL			
PVC No. 10 slot	2	No. 0 Sand	Bentonite			
METHOD OF INSTALLATION						
A Geoprobe 54LT was used to advance the boring to about 16 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 10 feet of 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. The well screen was installed from about 6 to 16 feet bgs with riser from 6 feet bgs to grade. The well was finished with a locking J-plug and flush-mounted steel manhole cover set into concrete.						
WELL DEVELOPMENT DATA						
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump	DEVELOPMENT CONFIRMATION		
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2 gal/min	Confirmed by Langan on		
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons	11/15/2022		
TOP OF CASING	ELEVATION	DEPTH (ft)			SUMMARY SOIL CLASSIFICATION See Soil Boring Log	
	9.41	0.00				DEPTH (FT)
TOP OF SEAL	ELEVATION	DEPTH (ft)				
	9.41	0.00				
TOP OF FILTER	ELEVATION	DEPTH (ft)				
	5.41	4.00				
TOP OF SCREEN	ELEVATION	DEPTH (ft)				
	3.41	6.00				
BOTTOM OF BORING	ELEVATION	DEPTH (ft)				
	-6.59	16.00				
SCREEN LENGTH (ft)	10					
SLOT SIZE	No. 10 Slot, 0.010 Inches					
GROUNDWATER ELEVATIONS						
ELEVATION	DATE	DEPTH TO WATER				
3.41	11/11/2022	6.00 ft				
ELEVATION	DATE	DEPTH TO WATER				
3.36	11/22/2022	6.05 ft				
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.						
360 West 31st Street, 8th Floor, New York						

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY					
Well No. MW18					
PROJECT			PROJECT NO.		
125 3rd Street			170698601		
LOCATION			ELEVATION AND DATUM		
Brooklyn, NY			el. 8.54 NAVD88		
DRILLING AGENCY			DATE STARTED		DATE FINISHED
Eastern Environmental Services Corp.			11/11/2022		11/11/2022
DRILLING EQUIPMENT			DRILLER		
Geoprobe® 54LT			Ernesto Santiago		
SIZE AND TYPE OF BIT			INSPECTOR		
4-foot macrocore			Tom Herold		
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)		
2-inch			Overburden		
RISER MATERIAL		DIAMETER	TYPE OF BACKFILL MATERIAL		
PVC		2	Grout		
TYPE OF SCREEN		DIAMETER	TYPE OF WELL PACK		TYPE OF SEAL MATERIAL
PVC No. 10 slot		2	No. 0 Sand		Bentonite
METHOD OF INSTALLATION					
A Geoprobe 54LT was used to advance the boring to about 12 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 10 feet of 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. The well screen was installed from about 2 to 12 feet bgs with riser from 2 feet bgs to grade. The well was finished with a locking J-plug and flush-mounted steel manhole cover set into concrete.					
WELL DEVELOPMENT DATA					
SURGE BLOCK DIAMETER		N/A	TYPE PUMP		Whale Pump
DRILLER OR LANGAN		Driller	MAX PUMP RATE		2 gal/min
NUMBER OF SURGE CYCLES		N/A	TOTAL VOLUME		5 gallons
DEVELOPMENT CONFIRMATION			Confirmed by Langan on 11/15/2022		
TOP OF CASING			ELEVATION		DEPTH (ft)
			8.54		0.00
TOP OF SEAL			ELEVATION		DEPTH (ft)
			8.54		0.00
TOP OF FILTER			ELEVATION		DEPTH (ft)
			7.54		1.00
TOP OF SCREEN			ELEVATION		DEPTH (ft)
			6.54		2.00
BOTTOM OF BORING			ELEVATION		DEPTH (ft)
			-3.46		12.00
SCREEN LENGTH (ft)			10		
SLOT SIZE			No. 10 Slot, 0.010 Inches		
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER			
2.65	11/22/2022	5.89 ft			
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
ELEVATION	DATE	DEPTH TO WATER			
N/A					
WELL DETAILS			SUMMARY SOIL CLASSIFICATION		DEPTH (FT)
			See Soil Boring Log		0.00
					1.00
					2.00
					12.00
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor, New York					

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY						
Well No. MW23						
PROJECT			PROJECT NO.			
125 3rd Street			170698601			
LOCATION			ELEVATION AND DATUM			
Brooklyn, NY			el. 7.77 NAVD88			
DRILLING AGENCY			DATE STARTED	DATE FINISHED		
Eastern Environmental Services Corp.			11/11/2022	11/11/2022		
DRILLING EQUIPMENT			DRILLER			
Geoprobe® 54LT			Ernesto Santiago			
SIZE AND TYPE OF BIT			INSPECTOR			
4-foot macrocore			Tom Herold			
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)			
2-inch			Overburden			
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL				
PVC	2	Grout				
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL			
PVC No. 10 slot	2	No. 0 Sand	Bentonite			
METHOD OF INSTALLATION						
A Geoprobe 54LT was used to advance the boring to about 12 feet bgs. A 2-inch PVC monitoring well was installed which consisted of 10 feet of 10 slot (0.010-inch) well screen, and a solid 2-inch PVC riser. The well screen was installed from about 2 to 12 feet bgs with riser from 2 feet bgs to grade. The well was finished with a locking J-plug and flush-mounted steel manhole cover set into concrete.						
WELL DEVELOPMENT DATA						
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump	DEVELOPMENT CONFIRMATION		
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2 gal/min	Confirmed by Langan on		
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons	11/15/2022		
TOP OF CASING	ELEVATION	DEPTH (ft)			SUMMARY SOIL CLASSIFICATION See Soil Boring Log	
	7.77	0.00				DEPTH (FT)
TOP OF SEAL	ELEVATION	DEPTH (ft)				
	7.77	0.00				
TOP OF FILTER	ELEVATION	DEPTH (ft)				
	6.77	1.00				
TOP OF SCREEN	ELEVATION	DEPTH (ft)				
	5.77	2.00				
BOTTOM OF BORING	ELEVATION	DEPTH (ft)				
	-4.23	12.00				
SCREEN LENGTH (ft)						
10						
SLOT SIZE						
No. 10 Slot, 0.010 Inches						
GROUNDWATER ELEVATIONS						
ELEVATION	DATE	DEPTH TO WATER				
3.22	11/22/2022	4.55 ft				
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
ELEVATION	DATE	DEPTH TO WATER				
N/A						
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor, New York						

APPENDIX E

GROUNDWATER SAMPLING LOGS

Project Information		Well Information		Equipment Information			Sampling Conditions			Sampling Information	
Project Name:	125 3rd Street	Well No:	MW01	Water Quality Device Model:	Horiba U-52	Weather:	Sunny 40-50F	Sample(s):	MW01_112222		
Project Number:	170698601	Well Depth:	12'	Pine Number:	3255	Background PID (ppm):	0.0				
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic	PID Beneath Inner Cap (ppm):	0.4				
Sampling Personnel:	Elsah Boak	Well Screen Interval:	3'-12'	Pine Number:	47148	Pump Intake Depth:	10	Sample Date:	11/22/2022		
				Tubing Diameter:	3/8x5/8	Depth to Water Before Purge:	-	Sample Time:	15:00		
STABILIZATION = 3 successive readings within limits											
	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:50	19.50	6.80	146	1.060	9.2	0.21			0.6	Clear, no odor	N/A
13:55	19.54	6.79	146	1.060	8.9	0.13			0.75		N/A
14:00	19.16	6.75	150	1.070	6.3	0.00			1		N
14:05	18.81	6.73	150	1.080	3.9	0.00			1.25		N
14:10	18.35	6.73	150	1.100	1.3	0.00			1.5		N
14:15	17.98	6.72	149	1.130	0.9	0.00			1.75		N
14:20	17.93	6.73	149	1.130	1.0	0.00	5.75		2		Y
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York											

Project Information		Well Information		Equipment Information			Sampling Conditions			Sampling Information	
Project Name:	125 3rd Street	Well No:	MW08	Water Quality Device Model:	Horiba U-52		Weather:	Sunny 40-50F		Sample(s):	MW08_112222
Project Number:	170698601	Well Depth:	12'	Pine Number:	25322		Background PID (ppm):	0.0			MS/MSD
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic		PID Beneath Inner Cap (ppm):	0.4		Sample Date:	11/22/2022
Sampling Personnel:	Tom Herold	Well Screen Interval:	4'-12'	Pine Number:	51703		Pump Intake Depth:	10			9:00
				Tubing Diameter:	3/8x5/8		Depth to Water Before Purge:	-		Sample Time:	
STABILIZATION = 3 successive readings within limits											
	TEMP °Celsius	PH	ORP mV	CONDUCTIVITY mS/cm	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm)	Cumulative Discharge Volume (Gal)	NOTES	Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)				<0.13 gpm)		color, odor etc.	
BEGIN PURGING											
8:20	16.59	7.23	13	0.971	99.0	0.50			1	Slight petroleum odor	N/A
8:25	16.53	7.31	10	0.977	99.0	0.54			1.25	Issue with turbidity,	N/A
8:30	16.56	7.36	8	0.980	99.0	0.50			1.5	turbidity not reading.	N
8:35	17.04	7.38	7	0.973		0.48			1.75		N
8:40	17.16	7.40	6	0.976		0.51			2		N
8:45	17.24	7.41	5	0.980		0.58			2.25		N
8:50	17.31	7.43	4	1.070		0.60			2.5		N
8:55	17.37	7.45	3	1.070		0.61			2.75		N
9:00	17.41	7.47	2	1.070		0.59	4.94		3	Water clear	N
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York											

Project Information		Well Information		Equipment Information			Sampling Conditions		Sampling Information		
Project Name:	125 3rd Street	Well No:	MW10	Water Quality Device Model:	Horiba U-52	Weather:	Sunny 40-50F	Sample(s):	MW10_112222		
Project Number:	170698601	Well Depth:	12'	Pine Number:	3255	Background PID (ppm):	0.0				
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic	PID Beneath Inner Cap (ppm):	0.1				
Sampling Personnel:	Elsah Boak	Well Screen Interval:	2'-12'	Pine Number:	47148	Pump Intake Depth:	10	Sample Date:	11/22/2022		
				Tubing Diameter:	3/8x5/8	Depth to Water Before Purge:	-	Sample Time:	13:30		
STABILIZATION = 3 successive readings within limits											
TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:25	17.67	7.91	-106	0.962	47.4	7.35			0.5	Clear	N/A
12:30	17.67	7.89	-105	0.981	49.3	7.13			0.7		N/A
12:35	17.74	7.74	-105	1.080	38.8	6.87			1		N
12:40	17.82	7.71	-108	1.100	33.4	6.86			1.25		N
12:45	17.89	7.69	-110	1.130	30.0	6.80			1.5		N
12:50	17.87	7.69	-111	1.130	27.1	6.84			1.75		N
12:55	17.94	7.68	-111	1.150	28.4	6.76	6.75		2		Y
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
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Project Information		Well Information		Equipment Information		Sampling Conditions			Sampling Information		
Project Name:	125 3rd Street	Well No:	MW13	Water Quality Device Model:	Horiba U-52	Weather:	Sunny 40-50F	Sample(s):	MW13_112222		
Project Number:	170698601	Well Depth:	12'	Pine Number:	25322	Background PID (ppm):	0.0				
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic	PID Beneath Inner Cap (ppm):	0.1				
Sampling Personnel:	Tom Herold	Well Screen Interval:	2'-12'	Pine Number:	51703	Pump Intake Depth:	8	Sample Date:	11/22/2022		
				Tubing Diameter:	3/8x5/8	Depth to Water Before Purge:	-	Sample Time:	13:40		
STABILIZATION = 3 successive readings within limits											
TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:25	12.96	7.62	-4	0.497	99.0	0.69			1.25	Clear, no odor	N/A
13:30	12.87	7.47	3	0.498		1.02			1.5	Issue with turbidity,	N/A
13:35	12.75	7.51	1	0.502		1.13			1.75	turbidity not reading.	N
13:40	12.66	7.49	2	0.505		1.07	7.14		2	Water clear	N
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
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Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information			
Project Name:	125 3rd Street	Well No:	MW16	Water Quality Device Model:	Horiba U-52	Weather:	Sunny 40-50F	Sample(s):	MW16_112222		
Project Number:	170698601	Well Depth:	16'	Pine Number:	3255	Background PID (ppm):	0.0				
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic	PID Beneath Inner Cap (ppm):	0.2				
Sampling Personnel:	Elsah Boak	Well Screen Interval:	6'-16'	Pine Number:	47148	Pump Intake Depth:	10	Sample Date:	11/22/2022		
				Tubing Diameter:	3/8x5/8	Depth to Water Before Purge:	-	Sample Time:	11:40		
STABILIZATION = 3 successive readings within limits											
	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
10:35	16.47	7.17	-21	1.200	19.0	6.89			0.25	Clear, no odor	N/A
10:40	16.41	7.19	-22	1.200	14.4	6.94			0.4		N/A
10:45	16.51	7.19	-22	1.350	12.0	6.74			0.6		N
10:50	16.65	7.18	-21	1.360	7.1	6.61			0.85		N
10:55	16.72	7.17	-21	1.360	5.6	6.52			1.05		N
11:00	16.82	7.17	-21	1.350	5.1	6.37			1.25		N
11:05	16.97	7.16	-20	1.350	3.8	6.12			1.5		N
11:10	17.01	7.16	-20	1.340	4.0	5.99			2		N
11:15	17.06	7.16	-20	1.340	3.8	6.15	6.05		2.5		Y
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
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Project Information		Well Information		Equipment Information			Sampling Conditions			Sampling Information	
Project Name:	125 3rd Street	Well No:	MW18	Water Quality Device Model:		HoribaU-52	Weather:		Sunny 40-50F	Sample(s):	MW18_112222
Project Number:	170698601	Well Depth:	12'	Pine Number:		25322	Background PID (ppm):		0.0		
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:		Peristaltic	PID Beneath Inner Cap (ppm):		0.2		
Sampling Personnel:	Tom Herold	Well Screen Interval:	2'-12'	Pine Number:		51703	Pump Intake Depth:		8	Sample Date:	11/22/2022
				Tubing Diameter:		3/8x5/8	Depth to Water Before Purge:		-	Sample Time:	12:05
STABILIZATION = 3 successive readings within limits											
	TEMP °Celsius	PH	ORP mV	CONDUCTIVITY mS/cm	TURBIDITY ntu	DO mg/l	DTW ft	Flow Rate (gpm)	Cumulative Discharge Volume (Gal)	NOTES	Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)	(+/- 10%) above 5 NTU	(+/- 10%) above 0.5 mg/l	Drawdown < 0.33 ft	<0.13 gpm)		color, odor etc.	
BEGIN PURGING											
11:35	16.63	7.70	-58	2.610	99.0	4.90			1	Clear, no odor	N/A
11:40	16.63	7.70	-8	2.670	99.0	9.00			1.25	Issue with turbidity,	N/A
11:45	16.63	7.72	-9	2.730		2.16			1.5	turbidity not reading.	N
11:50	16.39	7.76	-11	2.770		2.18			1.75		N
11:55	16.21	7.76	-11	2.790		7.84			2		N
12:00	16.16	7.74	-10	2.790		7.87			2.25		N
12:05	16.03	7.72	-9	2.790		7.71	5.89		2.5	Water clear	N
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
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Project Information		Well Information		Equipment Information			Sampling Conditions			Sampling Information	
Project Name:	125 3rd Street	Well No:	MW23	Water Quality Device Model:	Horiba U-52		Weather:	Sunny 40-50F	Sample(s):	MW23_112222	
Project Number:	170698601	Well Depth:	12'	Pine Number:	3255		Background PID (ppm):	0.0		GWDUP01_112222	
Site Location:	Brooklyn, NY	Well Diameter:	2"	Pump Make and Model:	Peristaltic		PID Beneath Inner Cap (ppm):	1.9			
Sampling	Elsah Boak	Well Screen	2'-12'	Pine Number:	47148		Pump Intake Depth:	10		Sample Date:	11/22/2022
Personnel:		Interval:		Tubing Diameter:	3/8x5/8		Depth to Water Before Purge:	-	Sample Time:	9:05	
STABILIZATION = 3 successive readings within limits											
	TEMP °Celsius	PH	ORP mV	CONDUCTIVITY mS/cm	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
TIME	(+/- 3%)	(+/- 0.1)	(+/- 10mV)	(+/- 3%)							
BEGIN PURGING											
8:15	17.14	6.64	-82	0.513	40.5	0.96			0.25	Light gray, no odor	N/A
8:20	18.09	6.69	-95	0.502	126.0	0.06			0.5		N/A
8:25	18.27	6.78	-104	0.503	671.0	0.00			0.75		N
8:30	17.87	6.79	-107	0.506	845.0	0.00			1	Issue with turbidity,	N
8:35	17.97	6.80	-110	0.504		0.00			1.2	turbidity not reading.	N
8:40	17.98	6.86	-112	0.504		0.00			1.5		N
8:45	18.32	6.81	-113	0.498		0.00	4.55		1.7	Water clear	N
Notes: 1. Well depths and groundwater depths were measured in feet below the top of well casing. 2. Well and tubing diameters are measured in inches. 3. PID = Photoionization Detector 4. PPM = Parts per million 5. pH = Hydrogen ion concentration 6. ORP = Oxidation-reduction potential, measured in millivolts (mV) 7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L) 8. DTW = Depth to water 9. mS/cm = milli-Siemens per centimeter 10. NTU = Nephelometric Turbidity Unit											
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APPENDIX F

SOIL VAPOR POINT CONSTRUCTION AND SAMPLING LOGS

AIR SAMPLING LOG SHEET Sample Number: <u>AA01_111122</u>																													
PROJECT: 125 3rd Street		PROJECT NO.: 170698601																											
LOCATION: Brooklyn, New York		SURFACE ELEVATION AND DATUM: N/A																											
SAMPLER: Tom Herold		SAMPLE DATE STARTED: 11/11/2022	DATE FINISHED: 11/11/2022																										
INSPECTOR: Tom Herold		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister																											
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; padding: 2px;">Temp:</td> <td style="width: 50%; padding: 2px;">65</td> </tr> <tr> <td style="padding: 2px;">Wind:</td> <td style="padding: 2px;">5</td> </tr> <tr> <td style="padding: 2px;">Precipitation:</td> <td style="padding: 2px;">rain</td> </tr> <tr> <td style="padding: 2px;">Pressure:</td> <td style="padding: 2px;">30.17</td> </tr> </table>		Temp:	65	Wind:	5	Precipitation:	rain	Pressure:	30.17																		
Temp:	65																												
Wind:	5																												
Precipitation:	rain																												
Pressure:	30.17																												
METHOD OF INSTALLATION AND SAMPLING: Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 6L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.																													
SAMPLE DETAILS		SAMPLE LOCATION SKETCH																											
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">HEIGHT ABOVE GROUND (FT):</td><td style="border-bottom: 1px solid black; text-align: right;">4.0</td></tr> <tr><td>PID BEFORE SAMPLE (PPM):</td><td style="border-bottom: 1px solid black; text-align: right;">0.0</td></tr> <tr><td>SAMPLE START TIME:</td><td style="border-bottom: 1px solid black; text-align: right;">11:58</td></tr> <tr><td>SAMPLE STOP TIME:</td><td style="border-bottom: 1px solid black; text-align: right;">13:51</td></tr> <tr><td>TOTAL SAMPLE TIME (MIN):</td><td style="border-bottom: 1px solid black; text-align: right;">113</td></tr> <tr><td>REGULATOR FLOW RATE (L/MIN):</td><td style="border-bottom: 1px solid black; text-align: right;">0.05</td></tr> <tr><td>VOLUME OF SAMPLE (LITERS):</td><td style="border-bottom: 1px solid black; text-align: right;">6</td></tr> <tr><td>PID AFTER SAMPLE (PPM):</td><td style="border-bottom: 1px solid black; text-align: right;">0.0</td></tr> <tr><td>SAMPLE MOISTURE CONTENT:</td><td style="border-bottom: 1px solid black; text-align: right;">N/A</td></tr> <tr><td>CAN SERIAL NUMBER:</td><td style="border-bottom: 1px solid black; text-align: right;">2059</td></tr> <tr><td>REGULATOR SERIAL NUMBER:</td><td style="border-bottom: 1px solid black; text-align: right;">1581</td></tr> <tr><td>CAN START VACUUM PRESS. (" HG):</td><td style="border-bottom: 1px solid black; text-align: right;">-29.98</td></tr> <tr><td>CAN STOP VACUUM PRESS. (" HG):</td><td style="border-bottom: 1px solid black; text-align: right;">-6.21</td></tr> </table>		HEIGHT ABOVE GROUND (FT):	4.0	PID BEFORE SAMPLE (PPM):	0.0	SAMPLE START TIME:	11:58	SAMPLE STOP TIME:	13:51	TOTAL SAMPLE TIME (MIN):	113	REGULATOR FLOW RATE (L/MIN):	0.05	VOLUME OF SAMPLE (LITERS):	6	PID AFTER SAMPLE (PPM):	0.0	SAMPLE MOISTURE CONTENT:	N/A	CAN SERIAL NUMBER:	2059	REGULATOR SERIAL NUMBER:	1581	CAN START VACUUM PRESS. (" HG):	-29.98	CAN STOP VACUUM PRESS. (" HG):	-6.21	See Sample Location Plan	
HEIGHT ABOVE GROUND (FT):	4.0																												
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NOTES																													
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SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SSV17_111122

PROJECT: 125 3rd Street		PROJECT NO.: 170698601									
LOCATION: Brooklyn, New York		SURFACE ELEVATION AND DATUM: N/A									
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.		INSTALLATION DATE STARTED: 11/9/2022	DATE FINISHED: 11/9/2022								
INSTALLATION FOREMAN: Ernesto Santiago		SAMPLE DATE STARTED: 11/11/2022	DATE FINISHED: 11/11/2022								
INSTALLATION EQUIPMENT: Hammer Drill		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister									
INSPECTOR: Ali Reach		SAMPLER: Tom Herold									
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <table border="1"> <tr> <td>Temp:</td> <td>65</td> </tr> <tr> <td>Wind:</td> <td>5</td> </tr> <tr> <td>Precipitation:</td> <td>rain</td> </tr> <tr> <td>Pressure:</td> <td>30.17</td> </tr> </table>		Temp:	65	Wind:	5	Precipitation:	rain	Pressure:	30.17
Temp:	65										
Wind:	5										
Precipitation:	rain										
Pressure:	30.17										

METHOD OF INSTALLATION AND PURGING:
 Eastern Environmental Solutions, Inc. (Eastern) advanced a Hammer Drill to immediately below the concrete floor slab bottom and installed the vapor point. The borehole was backfilled with No. 2 sand and sealed with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	TYPE OF MATERIAL ABOVE SEAL: N/A
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): N/A
BOREHOLE DIAMETER: 5/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): N/A

		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES
PURGE VOLUME (L):	0.01			N/A	
PURGE FLOW RATE (ML/MIN):	200				
PID AFTER PURGE (PPM):	0				
HELIUM TESTS	Pre-sampling Post-sampling				
HELIUM TEST IN BUCKET(%):	20.7% 21.2%				
HELIUM TEST IN TUBE (PPM):	0.0% 0.0%				
SAMPLE START TIME:	11:52				
SAMPLE STOP TIME:	13:45				
TOTAL SAMPLE TIME (MIN):	113				
REGULATOR FLOW RATE (L/MIN):	0.05				
VOLUME OF SAMPLE (LITERS):	6				
PID AFTER SAMPLE (PPM):	0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	2957				
REGULATOR SERIAL NUMBER:	01923				
CAN START VACUUM PRESS. (" HG):	-30.38				
CAN STOP VACUUM PRESS. (" HG):	-6.68				
SAMPLE LOCATION SKETCH					
See Sample Location Plan					

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SUB-SLAB SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SSV20_111122

PROJECT: 125 3rd Street		PROJECT NO.: 170698601									
LOCATION: Brooklyn, New York		SURFACE ELEVATION AND DATUM: N/A									
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.		INSTALLATION DATE STARTED: 11/9/2022	DATE FINISHED: 11/9/2022								
INSTALLATION FOREMAN: Ernesto Santiago		SAMPLE DATE STARTED: 11/11/2022	DATE FINISHED: 11/11/2022								
INSTALLATION EQUIPMENT: Hammer Drill		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister									
INSPECTOR: Ali Reach		SAMPLER: Tom Herold									
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <table border="1"> <tr> <td>Temp:</td> <td>65</td> </tr> <tr> <td>Wind:</td> <td>5</td> </tr> <tr> <td>Precipitation:</td> <td>rain</td> </tr> <tr> <td>Pressure:</td> <td>30.17</td> </tr> </table>		Temp:	65	Wind:	5	Precipitation:	rain	Pressure:	30.17
Temp:	65										
Wind:	5										
Precipitation:	rain										
Pressure:	30.17										

METHOD OF INSTALLATION AND PURGING:
 Eastern Environmental Solutions, Inc. (Eastern) advanced a Hammer Drill to immediately below the concrete floor slab bottom and installed the vapor point. The borehole was backfilled with No. 2 sand and sealed with hydrated bentonite. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every 30 minutes during sampling to ensure proper operation.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	TYPE OF MATERIAL ABOVE SEAL: N/A
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): N/A
BOREHOLE DIAMETER: 5/8 inch	FILTER PACK MATERIAL (Sand or Glass Beads): N/A

PURGE VOLUME (L): 0.01 PURGE FLOW RATE (ML/MIN): 200 PID AFTER PURGE (PPM): 0 HELIUM TESTS <table border="1"> <tr> <th></th> <th>Pre-sampling</th> <th>Post-sampling</th> </tr> <tr> <td>HELIUM TEST IN BUCKET(%):</td> <td>20.0%</td> <td>2240.0%</td> </tr> <tr> <td>HELIUM TEST IN TUBE (PPM):</td> <td>0.0%</td> <td>0.0%</td> </tr> </table> SAMPLE START TIME: 12:02 SAMPLE STOP TIME: 13:57 TOTAL SAMPLE TIME (MIN): 115 REGULATOR FLOW RATE (L/MIN): 0.05 VOLUME OF SAMPLE (LITERS): 6 PID AFTER SAMPLE (PPM): 0 SAMPLE MOISTURE CONTENT: N/A CAN SERIAL NUMBER: 2634 REGULATOR SERIAL NUMBER: 01439 CAN START VACUUM PRESS. (" HG): -30.77 CAN STOP VACUUM PRESS. (" HG): -7.96		Pre-sampling	Post-sampling	HELIUM TEST IN BUCKET(%):	20.0%	2240.0%	HELIUM TEST IN TUBE (PPM):	0.0%	0.0%	<table border="1"> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th rowspan="2">NOTES</th> </tr> <tr> <th>SURFACE</th> <th></th> <th></th> </tr> <tr> <td></td> <td>Top of Seal</td> <td>N/A</td> <td rowspan="3"></td> </tr> <tr> <td></td> <td>Top of Pack</td> <td>N/A</td> </tr> <tr> <td></td> <td>Tube Depth</td> <td>N/A</td> </tr> </table>	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE				Top of Seal	N/A			Top of Pack	N/A		Tube Depth	N/A
	Pre-sampling	Post-sampling																									
HELIUM TEST IN BUCKET(%):	20.0%	2240.0%																									
HELIUM TEST IN TUBE (PPM):	0.0%	0.0%																									
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES																								
SURFACE																											
	Top of Seal	N/A																									
	Top of Pack	N/A																									
	Tube Depth	N/A																									

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX G

COMMUNITY AIR MONITORING PROGRAM SUMMARY DATA

Date: 11/9/2022

Start: 8:00

End: 12:04

Observer: Ali Reach

UPWIND - UW
DOWNWIND - DW

Particulate Monitoring		
	UW	DW
Daily Average	0.019	0.009
Minimum 15min Average	0.010	0.005
Maximum 15min Average	0.072	0.023
Exceedance (15min >.15)	NA	0
Minimum 1min Reading	0.001	0.004
Maximum 1min Reading	0.368	0.069

NA - Not applicable, upwind unit used for background concentrations

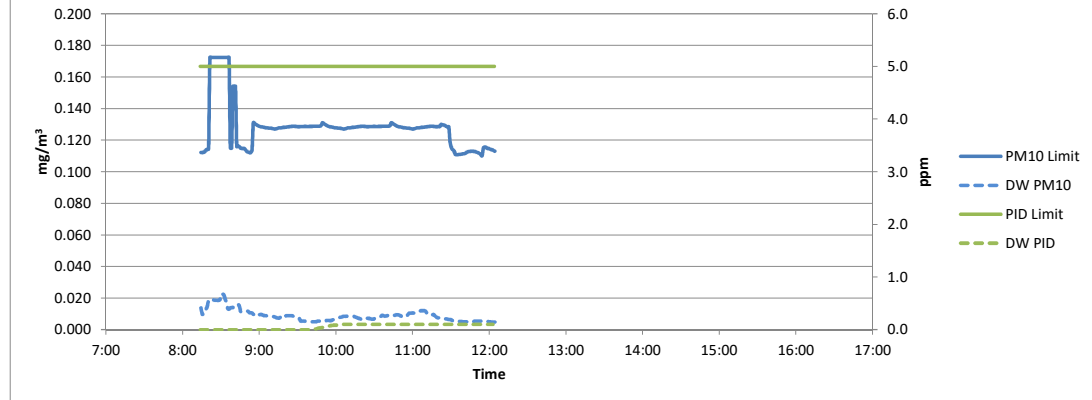
All reported units are mg/m³ (milligrams per cubic meter) unless specified otherwise

Organic Vapor Monitoring		
	UW	DW
Daily Average	0.0	0.1
Minimum 15min Average	0.0	0.0
Maximum 15min Average	0.0	0.1
Exceedance (15min >5)	NA	0
Minimum 1min Reading	0.0	0.0
Maximum 1min Reading	0.0	0.1

NA - Not applicable, upwind unit used for background concentrations

All reported units are ppm (parts per million) unless specified otherwise

Air Monitoring Data Summary



Wednesday, November 9, 2022						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =						0
Number of Comparable Data Points =						231
Start Time:						8:00
End Time:						12:04
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
8:00	0.013		8:00	0.069		
8:01	0.01		8:01	0.013		
8:02	0.011		8:02	0.012		
8:03	0.011		8:03	0.009		
8:04	0.011		8:04	0.009		
8:05	0.011		8:05	0.009		
8:06	0.012		8:06	0.009		
8:07	0.021		8:07	0.010		
8:08	0.013		8:08	0.010		
8:09	0.012		8:09	0.010		
8:10	0.012		8:10	0.010		
8:11	0.012		8:11	0.009		
8:12	0.011		8:12	0.009		
8:13	0.011		8:13	0.009		
8:14	0.011	0.012	8:14	0.010	0.014	-
8:15	0.012	0.012	8:15	0.009	0.010	-
8:16	0.012	0.012	8:16	0.015	0.010	-
8:17	0.018	0.013	8:17	0.016	0.010	-
8:18	0.028	0.014	8:18	0.051	0.013	-
8:19	0.016	0.014	8:19	0.038	0.015	-
8:20	0.015	0.014	8:20	0.067	0.019	-
8:21	0.016	0.072	8:21	0.013	0.019	-
8:22	0.015	0.072	8:22	0.009	0.019	-
8:23	0.015	0.072	8:23	0.009	0.019	-
8:24	0.011	0.072	8:24	0.008	0.019	-
8:25	0.011	0.072	8:25	0.006	0.019	-
8:26	0.011	0.072	8:26	0.010	0.019	-
8:27	0.01	0.072	8:27	0.009	0.019	-
8:28	0.011	0.072	8:28	0.008	0.019	-
8:29	0.015	0.072	8:29	0.020	0.019	-
8:30	0.024	0.072	8:30	0.060	0.023	-
8:31	0.014	0.072	8:31	0.013	0.022	-
8:32	0.012	0.072	8:32	0.008	0.022	-
8:33	0.011	0.072	8:33	0.009	0.019	-
8:34	0.025	0.072	8:34	0.010	0.017	-
8:35	0.025	0.072	8:35	0.008	0.013	-
8:36	0.014	0.072	8:36	0.008	0.013	-
8:37	0.017	0.015	8:37	0.022	0.014	-
8:38	0.014	0.015	8:38	0.009	0.014	-
8:39	0.011	0.054	8:39	0.010	0.014	-
8:40	0.013	0.054	8:40	0.020	0.015	-
8:41	0.02	0.054	8:41	0.027	0.016	-
8:42	0.014	0.016	8:42	0.008	0.016	-
8:43	0.014	0.016	8:43	0.008	0.016	-
8:44	0.011	0.016	8:44	0.007	0.015	-
8:45	0.009	0.015	8:45	0.007	0.012	-
8:46	0.01	0.015	8:46	0.008	0.011	-
8:47	0.013	0.015	8:47	0.009	0.011	-
8:48	0.01	0.015	8:48	0.014	0.012	-
8:49	0.01	0.014	8:49	0.010	0.012	-
8:50	0.01	0.013	8:50	0.007	0.012	-
8:51	0.01	0.012	8:51	0.008	0.012	-
8:52	0.011	0.012	8:52	0.008	0.011	-
8:53	0.016	0.012	8:53	0.009	0.011	-
8:54	0.036	0.014	8:54	0.008	0.011	-
8:55	0.016	0.031	8:55	0.009	0.010	-
8:56	0.012	0.031	8:56	0.009	0.009	-
8:57	0.025	0.030	8:57	0.013	0.009	-
8:58	0.026	0.030	8:58	0.012	0.009	-
8:59	0.022	0.029	8:59	0.011	0.009	-
9:00	0.031	0.029	9:00	0.008	0.010	-
9:01	0.019	0.028	9:01	0.010	0.010	-
9:02	0.011	0.028	9:02	0.006	0.009	-
9:03	0.01	0.028	9:03	0.006	0.009	-
9:04	0.009	0.028	9:04	0.009	0.009	-
9:05	0.009	0.028	9:05	0.006	0.009	-
9:06	0.009	0.028	9:06	0.006	0.009	-
9:07	0.009	0.028	9:07	0.006	0.009	-
9:08	0.009	0.028	9:08	0.006	0.008	-
9:09	0.015	0.028	9:09	0.007	0.008	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
9:10	0.014	0.027	9:10	0.007	0.008	-
9:11	0.011	0.027	9:11	0.011	0.008	-
9:12	0.01	0.027	9:12	0.008	0.008	-
9:13	0.008	0.027	9:13	0.007	0.008	-
9:14	0.008	0.027	9:14	0.007	0.007	-
9:15	0.048	0.028	9:15	0.007	0.007	-
9:16	0.016	0.028	9:16	0.017	0.008	-
9:17	0.011	0.028	9:17	0.028	0.009	-
9:18	0.025	0.028	9:18	0.005	0.009	-
9:19	0.012	0.028	9:19	0.005	0.009	-
9:20	0.042	0.028	9:20	0.004	0.009	-
9:21	0.048	0.028	9:21	0.007	0.009	-
9:22	0.022	0.028	9:22	0.007	0.009	-
9:23	0.012	0.028	9:23	0.006	0.009	-
9:24	0.011	0.029	9:24	0.007	0.009	-
9:25	0.011	0.029	9:25	0.006	0.009	-
9:26	0.007	0.029	9:26	0.008	0.009	-
9:27	0.007	0.029	9:27	0.006	0.008	-
9:28	0.006	0.029	9:28	0.005	0.008	-
9:29	0.006	0.029	9:29	0.004	0.008	-
9:30	0.006	0.028	9:30	0.004	0.008	-
9:31	0.006	0.028	9:31	0.004	0.007	-
9:32	0.006	0.029	9:32	0.004	0.005	-
9:33	0.007	0.029	9:33	0.004	0.005	-
9:34	0.007	0.029	9:34	0.004	0.005	-
9:35	0.008	0.029	9:35	0.005	0.005	-
9:36	0.008	0.029	9:36	0.005	0.005	-
9:37	0.007	0.029	9:37	0.007	0.005	-
9:38	0.007	0.029	9:38	0.005	0.005	-
9:39	0.008	0.029	9:39	0.006	0.005	-
9:40	0.008	0.029	9:40	0.006	0.005	-
9:41	0.007	0.029	9:41	0.006	0.005	-
9:42	0.007	0.029	9:42	0.005	0.005	-
9:43	0.008	0.029	9:43	0.005	0.005	-
9:44	0.008	0.029	9:44	0.005	0.005	-
9:45	0.008	0.029	9:45	0.009	0.005	-
9:46	0.007	0.029	9:46	0.005	0.005	-
9:47	0.007	0.029	9:47	0.004	0.005	-
9:48	0.007	0.029	9:48	0.004	0.005	-
9:49	0.008	0.031	9:49	0.011	0.006	-
9:50	0.025	0.031	9:50	0.006	0.006	-
9:51	0.022	0.030	9:51	0.005	0.006	-
9:52	0.014	0.030	9:52	0.004	0.006	-
9:53	0.011	0.029	9:53	0.006	0.006	-
9:54	0.009	0.029	9:54	0.006	0.006	-
9:55	0.02	0.028	9:55	0.005	0.006	-
9:56	0.018	0.028	9:56	0.006	0.006	-
9:57	0.009	0.028	9:57	0.012	0.006	-
9:58	0.011	0.028	9:58	0.008	0.006	-
9:59	0.01	0.028	9:59	0.009	0.007	-
10:00	0.013	0.028	10:00	0.011	0.007	-
10:01	0.017	0.028	10:01	0.011	0.007	-
10:02	0.016	0.028	10:02	0.011	0.008	-
10:03	0.021	0.028	10:03	0.007	0.008	-
10:04	0.017	0.027	10:04	0.013	0.008	-
10:05	0.009	0.027	10:05	0.011	0.008	-
10:06	0.017	0.027	10:06	0.006	0.008	-
10:07	0.016	0.027	10:07	0.006	0.009	-
10:08	0.014	0.027	10:08	0.005	0.008	-
10:09	0.012	0.028	10:09	0.007	0.009	-
10:10	0.011	0.028	10:10	0.007	0.009	-
10:11	0.009	0.028	10:11	0.005	0.009	-
10:12	0.013	0.028	10:12	0.012	0.009	-
10:13	0.014	0.028	10:13	0.007	0.009	-
10:14	0.016	0.028	10:14	0.006	0.008	-
10:15	0.015	0.028	10:15	0.005	0.008	-
10:16	0.014	0.028	10:16	0.006	0.008	-
10:17	0.017	0.028	10:17	0.006	0.007	-
10:18	0.034	0.029	10:18	0.005	0.007	-
10:19	0.012	0.029	10:19	0.007	0.007	-
10:20	0.01	0.029	10:20	0.006	0.006	-
10:21	0.009	0.029	10:21	0.006	0.006	-
10:22	0.01	0.029	10:22	0.015	0.007	-
10:23	0.008	0.029	10:23	0.009	0.007	-
10:24	0.008	0.028	10:24	0.006	0.007	-
10:25	0.024	0.028	10:25	0.006	0.007	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
10:26	0.022	0.029	10:26	0.005	0.007	-
10:27	0.013	0.029	10:27	0.006	0.007	-
10:28	0.011	0.029	10:28	0.005	0.007	-
10:29	0.011	0.029	10:29	0.006	0.007	-
10:30	0.009	0.029	10:30	0.012	0.007	-
10:31	0.009	0.029	10:31	0.011	0.007	-
10:32	0.014	0.029	10:32	0.007	0.007	-
10:33	0.012	0.029	10:33	0.011	0.008	-
10:34	0.011	0.029	10:34	0.011	0.008	-
10:35	0.011	0.029	10:35	0.012	0.009	-
10:36	0.015	0.029	10:36	0.015	0.009	-
10:37	0.015	0.029	10:37	0.009	0.009	-
10:38	0.017	0.029	10:38	0.006	0.009	-
10:39	0.018	0.029	10:39	0.008	0.009	-
10:40	0.012	0.029	10:40	0.009	0.009	-
10:41	0.017	0.029	10:41	0.010	0.009	-
10:42	0.011	0.029	10:42	0.006	0.009	-
10:43	0.013	0.031	10:43	0.007	0.009	-
10:44	0.011	0.031	10:44	0.009	0.010	-
10:45	0.028	0.030	10:45	0.006	0.009	-
10:46	0.014	0.030	10:46	0.011	0.009	-
10:47	0.023	0.029	10:47	0.011	0.009	-
10:48	0.021	0.029	10:48	0.011	0.009	-
10:49	0.014	0.028	10:49	0.008	0.009	-
10:50	0.011	0.028	10:50	0.008	0.009	-
10:51	0.009	0.028	10:51	0.007	0.008	-
10:52	0.008	0.028	10:52	0.006	0.008	-
10:53	0.011	0.028	10:53	0.006	0.008	-
10:54	0.05	0.028	10:54	0.006	0.008	-
10:55	0.287	0.028	10:55	0.014	0.008	-
10:56	0.064	0.028	10:56	0.028	0.010	-
10:57	0.025	0.028	10:57	0.019	0.010	-
10:58	0.064	0.027	10:58	0.007	0.010	-
10:59	0.025	0.027	10:59	0.008	0.010	-
11:00	0.029	0.027	11:00	0.009	0.011	-
11:01	0.368	0.027	11:01	0.010	0.011	-
11:02	0.162	0.027	11:02	0.019	0.011	-
11:03	0.103	0.028	11:03	0.018	0.012	-
11:04	0.018	0.028	11:04	0.012	0.012	-
11:05	0.011	0.028	11:05	0.007	0.012	-
11:06	0.011	0.028	11:06	0.011	0.012	-
11:07	0.015	0.028	11:07	0.006	0.012	-
11:08	0.014	0.028	11:08	0.006	0.012	-
11:09	0.011	0.028	11:09	0.006	0.012	-
11:10	0.014	0.028	11:10	0.006	0.011	-
11:11	0.02	0.028	11:11	0.007	0.010	-
11:12	0.018	0.029	11:12	0.008	0.009	-
11:13	0.01	0.029	11:13	0.010	0.010	-
11:14	0.158	0.029	11:14	0.005	0.009	-
11:15	0.062	0.029	11:15	0.009	0.009	-
11:16	0.031	0.029	11:16	0.014	0.010	-
11:17	0.021	0.029	11:17	0.008	0.009	-
11:18	0.044	0.028	11:18	0.006	0.008	-
11:19	0.016	0.028	11:19	0.005	0.008	-
11:20	0.012	0.029	11:20	0.005	0.007	-
11:21	0.009	0.029	11:21	0.005	0.007	-
11:22	0.009	0.030	11:22	0.004	0.007	-
11:23	0.009	0.030	11:23	0.005	0.007	-
11:24	0.01	0.030	11:24	0.006	0.007	-
11:25	0.01	0.029	11:25	0.006	0.007	-
11:26	0.01	0.029	11:26	0.006	0.007	-
11:27	0.013	0.028	11:27	0.005	0.007	-
11:28	0.011	0.028	11:28	0.007	0.006	-
11:29	0.01	0.018	11:29	0.006	0.006	-
11:30	0.013	0.015	11:30	0.005	0.006	-
11:31	0.011	0.014	11:31	0.005	0.006	-
11:32	0.011	0.013	11:32	0.005	0.005	-
11:33	0.012	0.011	11:33	0.005	0.005	-
11:34	0.012	0.011	11:34	0.004	0.005	-
11:35	0.012	0.011	11:35	0.005	0.005	-
11:36	0.011	0.011	11:36	0.004	0.005	-
11:37	0.01	0.011	11:37	0.004	0.005	-
11:38	0.011	0.011	11:38	0.004	0.005	-
11:39	0.013	0.011	11:39	0.005	0.005	-
11:40	0.011	0.011	11:40	0.006	0.005	-
11:41	0.014	0.012	11:41	0.005	0.005	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
11:42	0.023	0.012	11:42	0.004	0.005	-
11:43	0.016	0.013	11:43	0.005	0.005	-
11:44	0.011	0.013	11:44	0.006	0.005	-
11:45	0.015	0.013	11:45	0.006	0.005	-
11:46	0.013	0.013	11:46	0.007	0.005	-
11:47	0.01	0.013	11:47	0.007	0.005	-
11:48	0.009	0.013	11:48	0.008	0.005	-
11:49	0.009	0.013	11:49	0.005	0.005	-
11:50	0.008	0.012	11:50	0.004	0.005	-
11:51	0.008	0.012	11:51	0.004	0.005	-
11:52	0.001	0.011	11:52	0.004	0.005	-
11:53	0.002	0.011	11:53	0.005	0.005	-
11:54	0.001	0.010	11:54	0.004	0.005	-
11:55	0.084	0.015	11:55	0.004	0.005	-
11:56	0.024	0.016	11:56	0.005	0.005	-
11:57	0.022	0.016	11:57	0.005	0.005	-
11:58	0.004	0.015	11:58	0.004	0.005	-
11:59	0.012	0.015	11:59	0.004	0.005	-
12:00	0.009	0.014	12:00	0.006	0.005	-
12:01	0.006	0.014	12:01	0.004	0.005	-
12:02	0.009	0.014	12:02	0.005	0.005	-
12:03	0.002	0.013	12:03	0.009	0.005	-
12:04	0.003	0.013	12:04	0.005	0.005	-

Wednesday, November 9, 2022						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =						0
Number of Comparable Data Points =						230
Start Time:						8:00
End Time:						12:04
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:00	0.0		8:00	0.0		
8:01	0.0		8:01	0.0		
8:02	0.0		8:02	0.0		
8:03	0.0		8:03	0.0		
8:04	0.0		8:04	0.0		
8:05	0.0		8:05	0.0		
8:06	0.0		8:06	0.0		
8:07	0.0		8:07	0.0		
8:08	0.0		8:08	0.0		
8:09	0.0		8:09	0.0		
8:10	0.0		8:10	0.0		
8:11	0.0		8:11	0.0		
8:12	0.0		8:12	0.0		
8:13	0.0		8:13	0.0		
8:14	0.0	0.0	8:14	0.0	0.0	-
8:15	0.0	0.0	8:15	0.0	0.0	-
8:16	0.0	0.0	8:16	0.0	0.0	-
8:17	0.0	0.0	8:17	0.0	0.0	-
8:18	0.0	0.0	8:18	0.0	0.0	-
8:19	0.0	0.0	8:19	0.0	0.0	-
8:20	0.0	0.0	8:20	0.0	0.0	-
8:21	0.0	0.0	8:21	0.0	0.0	-
8:22	0.0	0.0	8:22	0.0	0.0	-
8:23	0.0	0.0	8:23	0.0	0.0	-
8:24	0.0	0.0	8:24	0.0	0.0	-
8:25	0.0	0.0	8:25	0.0	0.0	-
8:26	0.0	0.0	8:26	0.0	0.0	-
8:27	0.0	0.0	8:27	0.0	0.0	-
8:28	0.0	0.0	8:28	0.0	0.0	-
8:29	0.0	0.0	8:29	0.0	0.0	-
8:30	0.0	0.0	8:30	0.0	0.0	-
8:31	0.0	0.0	8:31	0.0	0.0	-
8:32	0.0	0.0	8:32	0.0	0.0	-
8:33	0.0	0.0	8:33	0.0	0.0	-
8:34	0.0	0.0	8:34	0.0	0.0	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.0	0.0	-
8:42	0.0	0.0	8:42	0.0	0.0	-
8:43	0.0	0.0	8:43	0.0	0.0	-
8:44	0.0	0.0	8:44	0.0	0.0	-
8:45	0.0	0.0	8:45	0.0	0.0	-
8:46	0.0	0.0	8:46	0.0	0.0	-
8:47	0.0	0.0	8:47	0.0	0.0	-
8:48	0.0	0.0	8:48	0.0	0.0	-
8:49	0.0	0.0	8:49	0.0	0.0	-
8:50	0.0	0.0	8:50	0.0	0.0	-
8:51	0.0	0.0	8:51	0.0	0.0	-
8:52	0.0	0.0	8:52	0.0	0.0	-
8:53	0.0	0.0	8:53	0.0	0.0	-
8:54	0.0	0.0	8:54	0.0	0.0	-
8:55	0.0	0.0	8:55	0.0	0.0	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.0	0.0	-
9:01	0.0	0.0	9:01	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:02	0.0	0.0	9:02	0.0	0.0	-
9:03	0.0	0.0	9:03	0.0	0.0	-
9:04	0.0	0.0	9:04	0.0	0.0	-
9:05	0.0	0.0	9:05	0.0	0.0	-
9:06	0.0	0.0	9:06	0.0	0.0	-
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.0	0.0	-
9:52	0.0	0.0	9:52	0.0	0.1	-
9:53	0.0	0.0	9:53	0.0	0.1	-
9:54	0.0	0.0	9:54	0.0	0.1	-
9:55	0.0	0.0	9:55	0.0	0.1	-
9:56	0.0	0.0	9:56	0.0	0.1	-
9:57	0.0	0.0	9:57	0.1	0.1	-
9:58	0.0	0.0	9:58	0.0	0.1	-
9:59	0.0	0.0	9:59	0.1	0.1	-
10:00	0.0	0.0	10:00	0.1	0.1	-
10:01	0.0	0.0	10:01	0.1	0.1	-
10:02	0.0	0.0	10:02	0.1	0.1	-
10:03	0.0	0.0	10:03	0.0	0.1	-
10:04	0.0	0.0	10:04	0.1	0.1	-
10:05	0.0	0.0	10:05	0.1	0.1	-
10:06	0.0	0.0	10:06	0.0	0.1	-
10:07	0.0	0.0	10:07	0.1	0.1	-
10:08	0.0	0.0	10:08	0.1	0.1	-
10:09	0.0	0.0	10:09	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:10	0.0	0.0	10:10	0.1	0.1	-
10:11	0.0	0.0	10:11	0.1	0.1	-
10:12	0.0	0.0	10:12	0.1	0.1	-
10:13	0.0	0.0	10:13	0.1	0.1	-
10:14	0.0	0.0	10:14	0.1	0.1	-
10:15	0.0	0.0	10:15	0.1	0.1	-
10:16	0.0	0.0	10:16	0.1	0.1	-
10:17	0.0	0.0	10:17	0.1	0.1	-
10:18	0.0	0.0	10:18	0.1	0.1	-
10:19	0.0	0.0	10:19	0.1	0.1	-
10:20	0.0	0.0	10:20	0.1	0.1	-
10:21	0.0	0.0	10:21	0.1	0.1	-
10:22	0.0	0.0	10:22	0.1	0.1	-
10:23	0.0	0.0	10:23	0.1	0.1	-
10:24	0.0	0.0	10:24	0.1	0.1	-
10:25	0.0	0.0	10:25	0.1	0.1	-
10:26	0.0	0.0	10:26	0.1	0.1	-
10:27	0.0	0.0	10:27	0.1	0.1	-
10:28	0.0	0.0	10:28	0.1	0.1	-
10:29	0.0	0.0	10:29	0.1	0.1	-
10:30	0.0	0.0	10:30	0.1	0.1	-
10:31	0.0	0.0	10:31	0.1	0.1	-
10:32	0.0	0.0	10:32	0.1	0.1	-
10:33	0.0	0.0	10:33	0.1	0.1	-
10:34	0.0	0.0	10:34	0.1	0.1	-
10:35	0.0	0.0	10:35	0.1	0.1	-
10:36	0.0	0.0	10:36	0.1	0.1	-
10:37	0.0	0.0	10:37	0.1	0.1	-
10:38	0.0	0.0	10:38	0.1	0.1	-
10:39	0.0	0.0	10:39	0.1	0.1	-
10:40	0.0	0.0	10:40	0.1	0.1	-
10:41	0.0	0.0	10:41	0.1	0.1	-
10:42	0.0	0.0	10:42	0.1	0.1	-
10:43	0.0	0.0	10:43	0.1	0.1	-
10:44	0.0	0.0	10:44	0.1	0.1	-
10:45	0.0	0.0	10:45	0.1	0.1	-
10:46	0.0	0.0	10:46	0.1	0.1	-
10:47	0.0	0.0	10:47	0.1	0.1	-
10:48	0.0	0.0	10:48	0.1	0.1	-
10:49	0.0	0.0	10:49	0.1	0.1	-
10:50	0.0	0.0	10:50	0.1	0.1	-
10:51	0.0	0.0	10:51	0.1	0.1	-
10:52	0.0	0.0	10:52	0.1	0.1	-
10:53	0.0	0.0	10:53	0.1	0.1	-
10:54	0.0	0.0	10:54	0.1	0.1	-
10:55	0.0	0.0	10:55	0.1	0.1	-
10:56	0.0	0.0	10:56	0.1	0.1	-
10:57	0.0	0.0	10:57	0.1	0.1	-
10:58	0.0	0.0	10:58	0.1	0.1	-
10:59	0.0	0.0	10:59	0.1	0.1	-
11:00	0.0	0.0	11:00	0.1	0.1	-
11:01	0.0	0.0	11:01	0.1	0.1	-
11:02	0.0	0.0	11:02	0.1	0.1	-
11:03	0.0	0.0	11:03	0.1	0.1	-
11:04	0.0	0.0	11:04	0.1	0.1	-
11:05	0.0	0.0	11:05	0.1	0.1	-
11:06	0.0	0.0	11:06	0.1	0.1	-
11:07	0.0	0.0	11:07	0.1	0.1	-
11:08	0.0	0.0	11:08	0.1	0.1	-
11:09	0.0	0.0	11:09	0.1	0.1	-
11:10	0.0	0.0	11:10	0.1	0.1	-
11:11	0.0	0.0	11:11	0.1	0.1	-
11:12	0.0	0.0	11:12	0.1	0.1	-
11:13	0.0	0.0	11:13	0.1	0.1	-
11:14	0.0	0.0	11:14	0.1	0.1	-
11:15	0.0	0.0	11:15	0.1	0.1	-
11:16	0.0	0.0	11:16	0.1	0.1	-
11:17	0.0	0.0	11:17	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:18	0.0	0.0	11:18	0.1	0.1	-
11:19	0.0	0.0	11:19	0.1	0.1	-
11:20	0.0	0.0	11:20	0.1	0.1	-
11:21	0.0	0.0	11:21	0.1	0.1	-
11:22	0.0	0.0	11:22	0.1	0.1	-
11:23	0.0	0.0	11:23	0.1	0.1	-
11:24	0.0	0.0	11:24	0.1	0.1	-
11:25	0.0	0.0	11:25	0.1	0.1	-
11:26	0.0	0.0	11:26	0.1	0.1	-
11:27	0.0	0.0	11:27	0.1	0.1	-
11:28	0.0	0.0	11:28	0.1	0.1	-
11:29	0.0	0.0	11:29	0.1	0.1	-
11:30	0.0	0.0	11:30	0.1	0.1	-
11:31	0.0	0.0	11:31	0.1	0.1	-
11:32	0.0	0.0	11:32	0.1	0.1	-
11:33	0.0	0.0	11:33	0.1	0.1	-
11:34	0.0	0.0	11:34	0.1	0.1	-
11:35	0.0	0.0	11:35	0.1	0.1	-
11:36	0.0	0.0	11:36	0.1	0.1	-
11:37	0.0	0.0	11:37	0.1	0.1	-
11:38	0.0	0.0	11:38	0.1	0.1	-
11:39	0.0	0.0	11:39	0.1	0.1	-
11:40	0.0	0.0	11:40	0.1	0.1	-
11:41	0.0	0.0	11:41	0.1	0.1	-
11:42	0.0	0.0	11:42	0.1	0.1	-
11:43	0.0	0.0	11:43	0.1	0.1	-
11:44	0.0	0.0	11:44	0.1	0.1	-
11:45	0.0	0.0	11:45	0.1	0.1	-
11:46	0.0	0.0	11:46	0.1	0.1	-
11:47	0.0	0.0	11:47	0.1	0.1	-
11:48	0.0	0.0	11:48	0.1	0.1	-
11:49	0.0	0.0	11:49	0.1	0.1	-
11:50	0.0	0.0	11:50	0.1	0.1	-
11:51	0.0	0.0	11:51	0.1	0.1	-
11:52	0.0	0.0	11:52	0.1	0.1	-
11:53	0.0	0.0	11:53	0.1	0.1	-
11:54	0.0	0.0	11:54	0.1	0.1	-
11:55	0.0	0.0	11:55	0.1	0.1	-
11:56	0.0	0.0	11:56	0.1	0.1	-
11:57	0.0	0.0	11:57	0.1	0.1	-
11:58	0.0	0.0	11:58	0.1	0.1	-
11:59	0.0	0.0	11:59	0.1	0.1	-
12:00	0.0	0.0	12:00	0.1	0.1	-
12:01	0.0	0.0	12:01	0.1	0.1	-
12:02	0.0	0.0	12:02	0.1	0.1	-
12:03	0.0	0.0	12:03	0.1	0.1	-
12:04	0.0	0.0	12:04	0.1		

Date: 11/10/2022

Start: 7:00

End: 13:58

Observer: Ali Reach

UPWIND -
DOWNWIND -

UW
DW

Particulate Monitoring		
	UW	DW
Daily Average	0.029	0.033
Minimum 15min Average	0.006	0.005
Maximum 15min Average	0.202	0.154
Exceedance (15min >.15)	NA	0
Minimum 1min Reading	0.004	0.003
Maximum 1min Reading	0.784	0.450

NA - Not applicable, upwind unit used for background concentrations

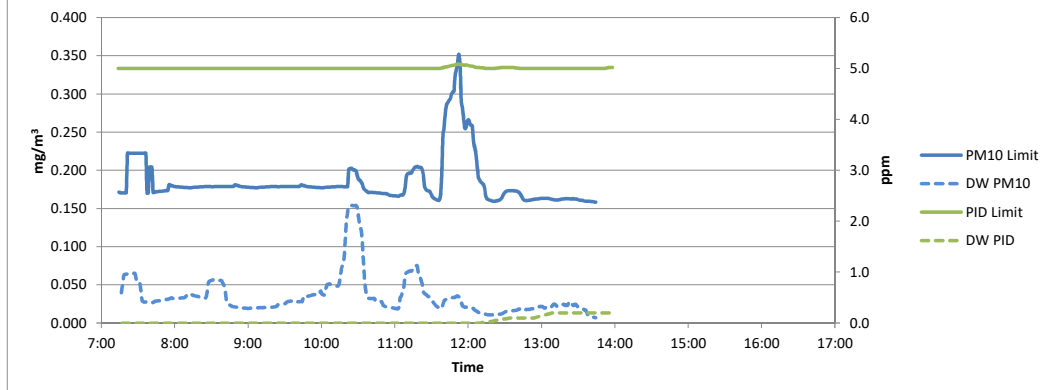
All reported units are mg/m³ (milligrams per cubic meter) unless specified otherwise

Organic Vapor Monitoring		
	UW	DW
Daily Average	0.0	0.0
Minimum 15min Average	0.0	0.0
Maximum 15min Average	0.1	0.2
Exceedance (15min >5)	NA	0
Minimum 1min Reading	0.0	0.0
Maximum 1min Reading	0.1	0.2

NA - Not applicable, upwind unit used for background concentrations

All reported units are ppm (parts per million) unless specified otherwise

Air Monitoring Data Summary



Thursday, November 10, 2022						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =						0
Number of Comparable Data Points =						402
Start Time:						7:00
End Time:						13:57
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
7:00	0.034		7:00			
7:01	0.023		7:01			
7:02	0.022		7:02	0.029		
7:03	0.021		7:03	0.027		
7:04	0.021		7:04	0.027		
7:05	0.021		7:05	0.026		
7:06	0.021		7:06	0.026		
7:07	0.021		7:07	0.026		
7:08	0.020		7:08	0.026		
7:09	0.020		7:09	0.027		
7:10	0.020		7:10	0.026		
7:11	0.019		7:11	0.028		
7:12	0.019		7:12	0.025		
7:13	0.019		7:13	0.129		
7:14	0.020	0.021	7:14	0.104		
7:15	0.020	0.020	7:15	0.040		
7:16	0.021	0.020	7:16	0.028	0.040	-
7:17	0.021	0.020	7:17	0.187	0.050	-
7:18	0.021	0.020	7:18	0.211	0.062	-
7:19	0.025	0.021	7:19	0.048	0.064	-
7:20	0.023	0.021	7:20	0.031	0.064	-
7:21	0.021	0.072	7:21	0.025	0.064	-
7:22	0.021	0.072	7:22	0.025	0.064	-
7:23	0.020	0.072	7:23	0.027	0.064	-
7:24	0.020	0.072	7:24	0.025	0.064	-
7:25	0.020	0.072	7:25	0.025	0.064	-
7:26	0.020	0.072	7:26	0.043	0.065	-
7:27	0.020	0.072	7:27	0.027	0.065	-
7:28	0.020	0.072	7:28	0.026	0.058	-
7:29	0.020	0.072	7:29	0.028	0.053	-
7:30	0.021	0.072	7:30	0.026	0.052	-
7:31	0.020	0.072	7:31	0.028	0.052	-
7:32	0.020	0.072	7:32	0.027	0.041	-
7:33	0.020	0.072	7:33	0.027	0.029	-
7:34	0.022	0.072	7:34	0.027	0.028	-
7:35	0.021	0.072	7:35	0.026	0.027	-
7:36	0.020	0.072	7:36	0.026	0.028	-
7:37	0.021	0.020	7:37	0.026	0.028	-
7:38	0.022	0.020	7:38	0.026	0.028	-
7:39	0.022	0.054	7:39	0.027	0.028	-
7:40	0.022	0.054	7:40	0.027	0.028	-
7:41	0.021	0.054	7:41	0.028	0.027	-
7:42	0.022	0.021	7:42	0.028	0.027	-
7:43	0.025	0.021	7:43	0.044	0.028	-
7:44	0.026	0.022	7:44	0.036	0.029	-
7:45	0.024	0.022	7:45	0.029	0.029	-
7:46	0.024	0.022	7:46	0.033	0.029	-
7:47	0.023	0.022	7:47	0.029	0.029	-
7:48	0.023	0.023	7:48	0.028	0.029	-
7:49	0.023	0.023	7:49	0.029	0.029	-
7:50	0.023	0.023	7:50	0.030	0.030	-
7:51	0.023	0.023	7:51	0.032	0.030	-
7:52	0.024	0.023	7:52	0.031	0.030	-
7:53	0.024	0.023	7:53	0.032	0.031	-
7:54	0.030	0.024	7:54	0.032	0.031	-
7:55	0.026	0.031	7:55	0.031	0.031	-
7:56	0.025	0.031	7:56	0.042	0.032	-
7:57	0.024	0.030	7:57	0.036	0.033	-
7:58	0.023	0.030	7:58	0.032	0.032	-
7:59	0.023	0.029	7:59	0.032	0.032	-
8:00	0.025	0.029	8:00	0.032	0.032	-
8:01	0.024	0.028	8:01	0.033	0.032	-
8:02	0.024	0.028	8:02	0.031	0.032	-
8:03	0.025	0.028	8:03	0.031	0.032	-
8:04	0.025	0.028	8:04	0.032	0.033	-
8:05	0.025	0.028	8:05	0.032	0.033	-
8:06	0.026	0.028	8:06	0.034	0.033	-
8:07	0.025	0.028	8:07	0.034	0.033	-
8:08	0.026	0.028	8:08	0.039	0.034	-
8:09	0.025	0.028	8:09	0.058	0.035	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
8:10	0.024	0.027	8:10	0.074	0.038	-
8:11	0.023	0.027	8:11	0.036	0.038	-
8:12	0.021	0.027	8:12	0.035	0.038	-
8:13	0.023	0.027	8:13	0.026	0.037	-
8:14	0.023	0.027	8:14	0.024	0.037	-
8:15	0.020	0.028	8:15	0.024	0.036	-
8:16	0.020	0.028	8:16	0.025	0.036	-
8:17	0.020	0.028	8:17	0.024	0.035	-
8:18	0.020	0.028	8:18	0.026	0.035	-
8:19	0.020	0.028	8:19	0.026	0.034	-
8:20	0.020	0.028	8:20	0.025	0.034	-
8:21	0.020	0.028	8:21	0.025	0.033	-
8:22	0.021	0.028	8:22	0.025	0.033	-
8:23	0.021	0.028	8:23	0.032	0.032	-
8:24	0.024	0.029	8:24	0.067	0.033	-
8:25	0.029	0.029	8:25	0.077	0.033	-
8:26	0.042	0.029	8:26	0.122	0.039	-
8:27	0.052	0.029	8:27	0.228	0.052	-
8:28	0.083	0.029	8:28	0.068	0.055	-
8:29	0.033	0.029	8:29	0.038	0.055	-
8:30	0.024	0.028	8:30	0.031	0.056	-
8:31	0.024	0.028	8:31	0.033	0.056	-
8:32	0.024	0.029	8:32	0.030	0.057	-
8:33	0.023	0.029	8:33	0.024	0.057	-
8:34	0.022	0.029	8:34	0.022	0.056	-
8:35	0.018	0.029	8:35	0.022	0.056	-
8:36	0.018	0.029	8:36	0.022	0.056	-
8:37	0.019	0.029	8:37	0.021	0.056	-
8:38	0.018	0.029	8:38	0.023	0.055	-
8:39	0.018	0.029	8:39	0.023	0.052	-
8:40	0.018	0.029	8:40	0.023	0.049	-
8:41	0.021	0.029	8:41	0.022	0.042	-
8:42	0.019	0.029	8:42	0.022	0.028	-
8:43	0.018	0.029	8:43	0.021	0.025	-
8:44	0.018	0.029	8:44	0.021	0.024	-
8:45	0.017	0.029	8:45	0.020	0.023	-
8:46	0.016	0.029	8:46	0.019	0.022	-
8:47	0.016	0.029	8:47	0.019	0.022	-
8:48	0.016	0.029	8:48	0.019	0.021	-
8:49	0.016	0.031	8:49	0.018	0.021	-
8:50	0.015	0.031	8:50	0.018	0.021	-
8:51	0.016	0.030	8:51	0.019	0.021	-
8:52	0.017	0.030	8:52	0.020	0.020	-
8:53	0.017	0.029	8:53	0.020	0.020	-
8:54	0.016	0.029	8:54	0.018	0.020	-
8:55	0.016	0.028	8:55	0.018	0.020	-
8:56	0.016	0.028	8:56	0.021	0.020	-
8:57	0.017	0.028	8:57	0.021	0.019	-
8:58	0.016	0.028	8:58	0.020	0.019	-
8:59	0.017	0.028	8:59	0.019	0.019	-
9:00	0.017	0.028	9:00	0.020	0.019	-
9:01	0.017	0.028	9:01	0.021	0.019	-
9:02	0.017	0.028	9:02	0.022	0.020	-
9:03	0.019	0.028	9:03	0.021	0.020	-
9:04	0.017	0.027	9:04	0.022	0.020	-
9:05	0.018	0.027	9:05	0.019	0.020	-
9:06	0.016	0.027	9:06	0.018	0.020	-
9:07	0.016	0.027	9:07	0.019	0.020	-
9:08	0.016	0.027	9:08	0.020	0.020	-
9:09	0.017	0.028	9:09	0.020	0.020	-
9:10	0.016	0.028	9:10	0.020	0.020	-
9:11	0.016	0.028	9:11	0.020	0.020	-
9:12	0.018	0.028	9:12	0.021	0.020	-
9:13	0.017	0.028	9:13	0.021	0.020	-
9:14	0.018	0.028	9:14	0.024	0.021	-
9:15	0.019	0.028	9:15	0.023	0.021	-
9:16	0.018	0.028	9:16	0.022	0.021	-
9:17	0.016	0.028	9:17	0.020	0.021	-
9:18	0.016	0.029	9:18	0.020	0.021	-
9:19	0.017	0.029	9:19	0.022	0.021	-
9:20	0.018	0.029	9:20	0.021	0.021	-
9:21	0.021	0.029	9:21	0.023	0.021	-
9:22	0.018	0.029	9:22	0.023	0.021	-
9:23	0.021	0.029	9:23	0.028	0.022	-
9:24	0.026	0.028	9:24	0.050	0.024	-
9:25	0.020	0.028	9:25	0.026	0.024	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
9:26	0.018	0.029	9:26	0.023	0.024	-
9:27	0.022	0.029	9:27	0.026	0.025	-
9:28	0.020	0.029	9:28	0.027	0.025	-
9:29	0.018	0.029	9:29	0.025	0.025	-
9:30	0.020	0.029	9:30	0.026	0.025	-
9:31	0.020	0.029	9:31	0.041	0.027	-
9:32	0.019	0.029	9:32	0.038	0.028	-
9:33	0.020	0.029	9:33	0.027	0.028	-
9:34	0.020	0.029	9:34	0.024	0.029	-
9:35	0.019	0.029	9:35	0.024	0.029	-
9:36	0.019	0.029	9:36	0.024	0.029	-
9:37	0.020	0.029	9:37	0.025	0.029	-
9:38	0.019	0.029	9:38	0.024	0.029	-
9:39	0.019	0.029	9:39	0.030	0.027	-
9:40	0.020	0.029	9:40	0.031	0.028	-
9:41	0.022	0.029	9:41	0.027	0.028	-
9:42	0.022	0.029	9:42	0.027	0.028	-
9:43	0.023	0.031	9:43	0.030	0.028	-
9:44	0.035	0.031	9:44	0.028	0.028	-
9:45	0.024	0.030	9:45	0.124	0.035	-
9:46	0.024	0.030	9:46	0.041	0.035	-
9:47	0.027	0.029	9:47	0.033	0.035	-
9:48	0.022	0.029	9:48	0.033	0.035	-
9:49	0.022	0.028	9:49	0.028	0.035	-
9:50	0.025	0.028	9:50	0.029	0.036	-
9:51	0.023	0.028	9:51	0.031	0.036	-
9:52	0.024	0.028	9:52	0.034	0.037	-
9:53	0.022	0.028	9:53	0.033	0.037	-
9:54	0.022	0.028	9:54	0.030	0.037	-
9:55	0.021	0.028	9:55	0.031	0.037	-
9:56	0.021	0.028	9:56	0.038	0.038	-
9:57	0.021	0.028	9:57	0.030	0.038	-
9:58	0.021	0.027	9:58	0.028	0.038	-
9:59	0.021	0.027	9:59	0.084	0.042	-
10:00	0.025	0.027	10:00	0.065	0.038	-
10:01	0.026	0.027	10:01	0.030	0.037	-
10:02	0.024	0.027	10:02	0.028	0.037	-
10:03	0.025	0.028	10:03	0.129	0.043	-
10:04	0.039	0.028	10:04	0.124	0.050	-
10:05	0.064	0.028	10:05	0.045	0.051	-
10:06	0.029	0.028	10:06	0.040	0.051	-
10:07	0.023	0.028	10:07	0.026	0.051	-
10:08	0.025	0.028	10:08	0.026	0.050	-
10:09	0.019	0.028	10:09	0.025	0.050	-
10:10	0.039	0.028	10:10	0.028	0.050	-
10:11	0.041	0.028	10:11	0.029	0.049	-
10:12	0.023	0.029	10:12	0.023	0.049	-
10:13	0.047	0.029	10:13	0.024	0.048	-
10:14	0.103	0.029	10:14	0.120	0.051	-
10:15	0.099	0.029	10:15	0.206	0.060	-
10:16	0.029	0.029	10:16	0.197	0.071	-
10:17	0.055	0.029	10:17	0.100	0.076	-
10:18	0.064	0.028	10:18	0.243	0.084	-
10:19	0.102	0.028	10:19	0.440	0.105	-
10:20	0.047	0.029	10:20	0.450	0.132	-
10:21	0.040	0.029	10:21	0.242	0.145	-
10:22	0.034	0.051	10:22	0.134	0.152	-
10:23	0.040	0.052	10:23	0.048	0.154	-
10:24	0.027	0.053	10:24	0.028	0.154	-
10:25	0.023	0.052	10:25	0.024	0.154	-
10:26	0.022	0.050	10:26	0.024	0.154	-
10:27	0.023	0.050	10:27	0.025	0.154	-
10:28	0.022	0.049	10:28	0.025	0.154	-
10:29	0.020	0.043	10:29	0.073	0.151	-
10:30	0.021	0.038	10:30	0.027	0.139	-
10:31	0.019	0.037	10:31	0.024	0.127	-
10:32	0.020	0.035	10:32	0.023	0.122	-
10:33	0.021	0.032	10:33	0.022	0.107	-
10:34	0.020	0.027	10:34	0.028	0.080	-
10:35	0.018	0.025	10:35	0.077	0.055	-
10:36	0.018	0.023	10:36	0.040	0.041	-
10:37	0.019	0.022	10:37	0.027	0.034	-
10:38	0.018	0.021	10:38	0.022	0.033	-
10:39	0.030	0.021	10:39	0.021	0.032	-
10:40	0.025	0.021	10:40	0.023	0.032	-
10:41	0.021	0.021	10:41	0.025	0.032	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
10:42	0.021	0.021	10:42	0.024	0.032	-
10:43	0.019	0.021	10:43	0.024	0.032	-
10:44	0.019	0.021	10:44	0.023	0.029	-
10:45	0.019	0.020	10:45	0.025	0.029	-
10:46	0.019	0.020	10:46	0.024	0.029	-
10:47	0.018	0.020	10:47	0.022	0.028	-
10:48	0.017	0.020	10:48	0.019	0.028	-
10:49	0.015	0.020	10:49	0.018	0.028	-
10:50	0.016	0.020	10:50	0.018	0.024	-
10:51	0.019	0.020	10:51	0.017	0.022	-
10:52	0.017	0.020	10:52	0.016	0.021	-
10:53	0.015	0.019	10:53	0.016	0.021	-
10:54	0.014	0.018	10:54	0.016	0.021	-
10:55	0.014	0.018	10:55	0.016	0.020	-
10:56	0.014	0.017	10:56	0.018	0.020	-
10:57	0.017	0.017	10:57	0.023	0.020	-
10:58	0.017	0.017	10:58	0.026	0.020	-
10:59	0.017	0.017	10:59	0.019	0.020	-
11:00	0.017	0.016	11:00	0.019	0.019	-
11:01	0.015	0.016	11:01	0.018	0.019	-
11:02	0.017	0.016	11:02	0.019	0.019	-
11:03	0.016	0.016	11:03	0.048	0.020	-
11:04	0.034	0.017	11:04	0.202	0.033	-
11:05	0.023	0.018	11:05	0.059	0.035	-
11:06	0.016	0.018	11:06	0.106	0.041	-
11:07	0.048	0.020	11:07	0.095	0.047	-
11:08	0.117	0.026	11:08	0.244	0.062	-
11:09	0.241	0.042	11:09	0.073	0.066	-
11:10	0.067	0.045	11:10	0.028	0.066	-
11:11	0.032	0.046	11:11	0.037	0.068	-
11:12	0.018	0.046	11:12	0.029	0.068	-
11:13	0.015	0.046	11:13	0.022	0.068	-
11:14	0.056	0.049	11:14	0.038	0.069	-
11:15	0.062	0.052	11:15	0.035	0.070	-
11:16	0.045	0.054	11:16	0.066	0.073	-
11:17	0.025	0.054	11:17	0.046	0.075	-
11:18	0.026	0.055	11:18	0.043	0.075	-
11:19	0.020	0.054	11:19	0.041	0.064	-
11:20	0.017	0.054	11:20	0.032	0.062	-
11:21	0.014	0.054	11:21	0.016	0.056	-
11:22	0.011	0.051	11:22	0.021	0.051	-
11:23	0.011	0.044	11:23	0.090	0.041	-
11:24	0.012	0.029	11:24	0.035	0.039	-
11:25	0.011	0.025	11:25	0.013	0.038	-
11:26	0.010	0.024	11:26	0.011	0.036	-
11:27	0.010	0.023	11:27	0.011	0.035	-
11:28	0.010	0.023	11:28	0.014	0.034	-
11:29	0.012	0.020	11:29	0.013	0.032	-
11:30	0.010	0.016	11:30	0.012	0.031	-
11:31	0.010	0.014	11:31	0.012	0.027	-
11:32	0.010	0.013	11:32	0.017	0.025	-
11:33	0.011	0.012	11:33	0.014	0.023	-
11:34	0.010	0.011	11:34	0.013	0.022	-
11:35	0.010	0.011	11:35	0.019	0.021	-
11:36	0.014	0.011	11:36	0.014	0.021	-
11:37	0.097	0.017	11:37	0.044	0.022	-
11:38	0.409	0.043	11:38	0.064	0.020	-
11:39	0.784	0.095	11:39	0.090	0.024	-
11:40	0.195	0.107	11:40	0.087	0.029	-
11:41	0.275	0.124	11:41	0.031	0.030	-
11:42	0.188	0.136	11:42	0.019	0.031	-
11:43	0.041	0.138	11:43	0.017	0.031	-
11:44	0.056	0.141	11:44	0.021	0.032	-
11:45	0.045	0.144	11:45	0.025	0.032	-
11:46	0.095	0.149	11:46	0.022	0.033	-
11:47	0.055	0.152	11:47	0.017	0.033	-
11:48	0.026	0.153	11:48	0.017	0.033	-
11:49	0.321	0.174	11:49	0.018	0.034	-
11:50	0.134	0.182	11:50	0.040	0.035	-
11:51	0.141	0.191	11:51	0.020	0.035	-
11:52	0.262	0.202	11:52	0.026	0.034	-
11:53	0.211	0.189	11:53	0.030	0.032	-
11:54	0.068	0.141	11:54	0.020	0.027	-
11:55	0.047	0.131	11:55	0.013	0.022	-
11:56	0.036	0.115	11:56	0.013	0.021	-
11:57	0.032	0.105	11:57	0.013	0.021	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
11:58	0.071	0.107	11:58	0.014	0.021	-
11:59	0.171	0.114	11:59	0.028	0.021	-
12:00	0.071	0.116	12:00	0.018	0.021	-
12:01	0.022	0.111	12:01	0.012	0.020	-
12:02	0.019	0.109	12:02	0.014	0.020	-
12:03	0.018	0.108	12:03	0.011	0.019	-
12:04	0.015	0.088	12:04	0.011	0.019	-
12:05	0.014	0.080	12:05	0.010	0.017	-
12:06	0.009	0.071	12:06	0.010	0.016	-
12:07	0.010	0.054	12:07	0.010	0.015	-
12:08	0.012	0.041	12:08	0.011	0.014	-
12:09	0.012	0.037	12:09	0.010	0.013	-
12:10	0.010	0.035	12:10	0.011	0.013	-
12:11	0.010	0.033	12:11	0.011	0.013	-
12:12	0.010	0.032	12:12	0.011	0.013	-
12:13	0.010	0.028	12:13	0.011	0.013	-
12:14	0.009	0.017	12:14	0.011	0.011	-
12:15	0.010	0.013	12:15	0.010	0.011	-
12:16	0.009	0.012	12:16	0.011	0.011	-
12:17	0.008	0.011	12:17	0.010	0.011	-
12:18	0.008	0.010	12:18	0.010	0.011	-
12:19	0.008	0.010	12:19	0.011	0.011	-
12:20	0.008	0.010	12:20	0.011	0.011	-
12:21	0.009	0.010	12:21	0.013	0.011	-
12:22	0.011	0.010	12:22	0.016	0.011	-
12:23	0.021	0.010	12:23	0.011	0.011	-
12:24	0.010	0.010	12:24	0.012	0.011	-
12:25	0.023	0.011	12:25	0.014	0.012	-
12:26	0.023	0.012	12:26	0.014	0.012	-
12:27	0.035	0.013	12:27	0.016	0.012	-
12:28	0.054	0.016	12:28	0.021	0.013	-
12:29	0.058	0.020	12:29	0.026	0.014	-
12:30	0.039	0.022	12:30	0.022	0.015	-
12:31	0.024	0.023	12:31	0.022	0.015	-
12:32	0.015	0.023	12:32	0.014	0.016	-
12:33	0.009	0.023	12:33	0.014	0.016	-
12:34	0.010	0.023	12:34	0.012	0.016	-
12:35	0.010	0.023	12:35	0.013	0.016	-
12:36	0.009	0.023	12:36	0.014	0.016	-
12:37	0.012	0.023	12:37	0.019	0.016	-
12:38	0.012	0.023	12:38	0.015	0.017	-
12:39	0.012	0.023	12:39	0.013	0.017	-
12:40	0.010	0.022	12:40	0.022	0.017	-
12:41	0.011	0.021	12:41	0.032	0.018	-
12:42	0.010	0.020	12:42	0.013	0.018	-
12:43	0.010	0.017	12:43	0.010	0.017	-
12:44	0.009	0.013	12:44	0.016	0.017	-
12:45	0.009	0.011	12:45	0.013	0.016	-
12:46	0.010	0.011	12:46	0.023	0.016	-
12:47	0.011	0.010	12:47	0.037	0.018	-
12:48	0.011	0.010	12:48	0.016	0.018	-
12:49	0.012	0.011	12:49	0.013	0.018	-
12:50	0.013	0.011	12:50	0.012	0.018	-
12:51	0.015	0.011	12:51	0.024	0.019	-
12:52	0.016	0.011	12:52	0.021	0.019	-
12:53	0.019	0.012	12:53	0.016	0.019	-
12:54	0.014	0.012	12:54	0.016	0.019	-
12:55	0.017	0.012	12:55	0.023	0.019	-
12:56	0.011	0.012	12:56	0.034	0.019	-
12:57	0.011	0.013	12:57	0.037	0.021	-
12:58	0.016	0.013	12:58	0.022	0.022	-
12:59	0.013	0.013	12:59	0.014	0.021	-
13:00	0.011	0.013	13:00	0.016	0.022	-
13:01	0.009	0.013	13:01	0.015	0.021	-
13:02	0.010	0.013	13:02	0.013	0.019	-
13:03	0.010	0.013	13:03	0.027	0.020	-
13:04	0.013	0.013	13:04	0.044	0.022	-
13:05	0.011	0.013	13:05	0.014	0.022	-
13:06	0.011	0.013	13:06	0.018	0.022	-
13:07	0.012	0.013	13:07	0.017	0.022	-
13:08	0.011	0.012	13:08	0.015	0.022	-
13:09	0.010	0.012	13:09	0.049	0.024	-
13:10	0.010	0.011	13:10	0.037	0.025	-
13:11	0.010	0.011	13:11	0.022	0.024	-
13:12	0.011	0.011	13:12	0.009	0.022	-
13:13	0.012	0.011	13:13	0.021	0.022	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
13:14	0.020	0.011	13:14	0.041	0.024	-
13:15	0.016	0.012	13:15	0.014	0.024	-
13:16	0.017	0.012	13:16	0.015	0.024	-
13:17	0.013	0.012	13:17	0.021	0.024	-
13:18	0.010	0.012	13:18	0.028	0.024	-
13:19	0.017	0.013	13:19	0.021	0.023	-
13:20	0.014	0.013	13:20	0.027	0.024	-
13:21	0.010	0.013	13:21	0.012	0.023	-
13:22	0.010	0.013	13:22	0.072	0.027	-
13:23	0.009	0.013	13:23	0.034	0.028	-
13:24	0.010	0.013	13:24	0.008	0.025	-
13:25	0.010	0.013	13:25	0.012	0.024	-
13:26	0.010	0.013	13:26	0.007	0.023	-
13:27	0.008	0.012	13:27	0.034	0.024	-
13:28	0.014	0.013	13:28	0.013	0.024	-
13:29	0.009	0.012	13:29	0.007	0.022	-
13:30	0.008	0.011	13:30	0.016	0.022	-
13:31	0.009	0.011	13:31	0.008	0.021	-
13:32	0.012	0.011	13:32	0.007	0.020	-
13:33	0.009	0.011	13:33	0.008	0.019	-
13:34	0.010	0.010	13:34	0.007	0.018	-
13:35	0.007	0.010	13:35	0.005	0.017	-
13:36	0.008	0.010	13:36	0.010	0.017	-
13:37	0.010	0.010	13:37	0.005	0.012	-
13:38	0.007	0.009	13:38	0.007	0.010	-
13:39	0.009	0.009	13:39	0.005	0.010	-
13:40	0.007	0.009	13:40	0.006	0.010	-
13:41	0.006	0.009	13:41	0.006	0.010	-
13:42	0.007	0.009	13:42	0.006	0.008	-
13:43	0.007	0.008	13:43	0.005	0.007	-
13:44	0.007	0.008	13:44	0.005	0.007	-
13:45	0.007	0.008	13:45	0.003	0.006	-
13:46	0.006	0.008	13:46	0.003	0.006	-
13:47	0.005	0.007	13:47	0.004	0.006	-
13:48	0.004	0.007	13:48	0.004	0.005	-
13:49	0.005	0.007	13:49	0.003	0.005	-
13:50	0.006	0.007	13:50	0.005	0.005	-
13:51	0.006	0.007	13:51	0.007	0.005	-
13:52	0.006	0.006	13:52	0.008	0.005	-
13:53	0.007	0.006	13:53	0.008	0.005	-
13:54	0.007	0.006	13:54	0.007	0.005	-
13:55	0.007	0.006	13:55	0.007	0.005	-
13:56	0.006	0.006	13:56	0.005	0.005	-
13:57	0.007	0.006	13:57	0.004	0.005	-

Thursday, November 10, 2022						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =						0
Number of Comparable Data Points =						401
Start Time:						7:00
End Time:						13:58
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:00	0.0		7:00			
7:01	0.0		7:01			
7:02	0.0		7:02			
7:03	0.0		7:03	0.0		
7:04	0.0		7:04	0.0		
7:05	0.0		7:05	0.0		
7:06	0.0		7:06	0.0		
7:07	0.0		7:07	0.0		
7:08	0.0		7:08	0.0		
7:09	0.0		7:09	0.0		
7:10	0.0		7:10	0.0		
7:11	0.0		7:11	0.0		
7:12	0.0		7:12	0.0		
7:13	0.0		7:13	0.0		
7:14	0.0	0.0	7:14	0.2		
7:15	0.0	0.0	7:15	0.2		
7:16	0.0	0.0	7:16	0.0		
7:17	0.0	0.0	7:17	0.0	0.0	-
7:18	0.0	0.0	7:18	0.0	0.0	-
7:19	0.0	0.0	7:19	0.0	0.0	-
7:20	0.0	0.0	7:20	0.0	0.0	-
7:21	0.0	0.0	7:21	0.0	0.0	-
7:22	0.0	0.0	7:22	0.0	0.0	-
7:23	0.0	0.0	7:23	0.0	0.0	-
7:24	0.0	0.0	7:24	0.0	0.0	-
7:25	0.0	0.0	7:25	0.0	0.0	-
7:26	0.0	0.0	7:26	0.0	0.0	-
7:27	0.0	0.0	7:27	0.0	0.0	-
7:28	0.0	0.0	7:28	0.0	0.0	-
7:29	0.0	0.0	7:29	0.0	0.0	-
7:30	0.0	0.0	7:30	0.0	0.0	-
7:31	0.0	0.0	7:31	0.0	0.0	-
7:32	0.0	0.0	7:32	0.0	0.0	-
7:33	0.0	0.0	7:33	0.0	0.0	-
7:34	0.0	0.0	7:34	0.0	0.0	-
7:35	0.0	0.0	7:35	0.0	0.0	-
7:36	0.0	0.0	7:36	0.0	0.0	-
7:37	0.0	0.0	7:37	0.0	0.0	-
7:38	0.0	0.0	7:38	0.0	0.0	-
7:39	0.0	0.0	7:39	0.0	0.0	-
7:40	0.0	0.0	7:40	0.0	0.0	-
7:41	0.0	0.0	7:41	0.0	0.0	-
7:42	0.0	0.0	7:42	0.0	0.0	-
7:43	0.0	0.0	7:43	0.0	0.0	-
7:44	0.0	0.0	7:44	0.0	0.0	-
7:45	0.0	0.0	7:45	0.0	0.0	-
7:46	0.0	0.0	7:46	0.0	0.0	-
7:47	0.0	0.0	7:47	0.0	0.0	-
7:48	0.0	0.0	7:48	0.0	0.0	-
7:49	0.0	0.0	7:49	0.0	0.0	-
7:50	0.0	0.0	7:50	0.0	0.0	-
7:51	0.0	0.0	7:51	0.0	0.0	-
7:52	0.0	0.0	7:52	0.0	0.0	-
7:53	0.0	0.0	7:53	0.0	0.0	-
7:54	0.0	0.0	7:54	0.0	0.0	-
7:55	0.0	0.0	7:55	0.0	0.0	-
7:56	0.0	0.0	7:56	0.0	0.0	-
7:57	0.0	0.0	7:57	0.0	0.0	-
7:58	0.0	0.0	7:58	0.0	0.0	-
7:59	0.0	0.0	7:59	0.0	0.0	-
8:00	0.0	0.0	8:00	0.0	0.0	-
8:01	0.0	0.0	8:01	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:02	0.0	0.0	8:02	0.0	0.0	-
8:03	0.0	0.0	8:03	0.0	0.0	-
8:04	0.0	0.0	8:04	0.0	0.0	-
8:05	0.0	0.0	8:05	0.0	0.0	-
8:06	0.0	0.0	8:06	0.0	0.0	-
8:07	0.0	0.0	8:07	0.0	0.0	-
8:08	0.0	0.0	8:08	0.0	0.0	-
8:09	0.0	0.0	8:09	0.0	0.0	-
8:10	0.0	0.0	8:10	0.0	0.0	-
8:11	0.0	0.0	8:11	0.0	0.0	-
8:12	0.0	0.0	8:12	0.0	0.0	-
8:13	0.0	0.0	8:13	0.0	0.0	-
8:14	0.0	0.0	8:14	0.0	0.0	-
8:15	0.0	0.0	8:15	0.0	0.0	-
8:16	0.0	0.0	8:16	0.0	0.0	-
8:17	0.0	0.0	8:17	0.0	0.0	-
8:18	0.0	0.0	8:18	0.0	0.0	-
8:19	0.0	0.0	8:19	0.0	0.0	-
8:20	0.0	0.0	8:20	0.0	0.0	-
8:21	0.0	0.0	8:21	0.0	0.0	-
8:22	0.0	0.0	8:22	0.0	0.0	-
8:23	0.0	0.0	8:23	0.0	0.0	-
8:24	0.0	0.0	8:24	0.0	0.0	-
8:25	0.0	0.0	8:25	0.0	0.0	-
8:26	0.0	0.0	8:26	0.0	0.0	-
8:27	0.0	0.0	8:27	0.0	0.0	-
8:28	0.0	0.0	8:28	0.0	0.0	-
8:29	0.0	0.0	8:29	0.0	0.0	-
8:30	0.0	0.0	8:30	0.0	0.0	-
8:31	0.0	0.0	8:31	0.0	0.0	-
8:32	0.0	0.0	8:32	0.0	0.0	-
8:33	0.0	0.0	8:33	0.0	0.0	-
8:34	0.0	0.0	8:34	0.0	0.0	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.0	0.0	-
8:42	0.0	0.0	8:42	0.0	0.0	-
8:43	0.0	0.0	8:43	0.0	0.0	-
8:44	0.0	0.0	8:44	0.0	0.0	-
8:45	0.0	0.0	8:45	0.0	0.0	-
8:46	0.0	0.0	8:46	0.0	0.0	-
8:47	0.0	0.0	8:47	0.0	0.0	-
8:48	0.0	0.0	8:48	0.0	0.0	-
8:49	0.0	0.0	8:49	0.0	0.0	-
8:50	0.0	0.0	8:50	0.0	0.0	-
8:51	0.0	0.0	8:51	0.0	0.0	-
8:52	0.0	0.0	8:52	0.0	0.0	-
8:53	0.0	0.0	8:53	0.0	0.0	-
8:54	0.0	0.0	8:54	0.0	0.0	-
8:55	0.0	0.0	8:55	0.0	0.0	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.0	0.0	-
9:01	0.0	0.0	9:01	0.0	0.0	-
9:02	0.0	0.0	9:02	0.0	0.0	-
9:03	0.0	0.0	9:03	0.0	0.0	-
9:04	0.0	0.0	9:04	0.0	0.0	-
9:05	0.0	0.0	9:05	0.0	0.0	-
9:06	0.0	0.0	9:06	0.0	0.0	-
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.0	0.0	-
9:52	0.0	0.0	9:52	0.0	0.0	-
9:53	0.0	0.0	9:53	0.0	0.0	-
9:54	0.0	0.0	9:54	0.0	0.0	-
9:55	0.0	0.0	9:55	0.0	0.0	-
9:56	0.0	0.0	9:56	0.0	0.0	-
9:57	0.0	0.0	9:57	0.0	0.0	-
9:58	0.0	0.0	9:58	0.0	0.0	-
9:59	0.0	0.0	9:59	0.0	0.0	-
10:00	0.0	0.0	10:00	0.0	0.0	-
10:01	0.0	0.0	10:01	0.0	0.0	-
10:02	0.0	0.0	10:02	0.0	0.0	-
10:03	0.0	0.0	10:03	0.0	0.0	-
10:04	0.0	0.0	10:04	0.0	0.0	-
10:05	0.0	0.0	10:05	0.0	0.0	-
10:06	0.0	0.0	10:06	0.0	0.0	-
10:07	0.0	0.0	10:07	0.0	0.0	-
10:08	0.0	0.0	10:08	0.0	0.0	-
10:09	0.0	0.0	10:09	0.0	0.0	-
10:10	0.0	0.0	10:10	0.0	0.0	-
10:11	0.0	0.0	10:11	0.0	0.0	-
10:12	0.0	0.0	10:12	0.0	0.0	-
10:13	0.0	0.0	10:13	0.0	0.0	-
10:14	0.0	0.0	10:14	0.0	0.0	-
10:15	0.0	0.0	10:15	0.0	0.0	-
10:16	0.0	0.0	10:16	0.0	0.0	-
10:17	0.0	0.0	10:17	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:18	0.0	0.0	10:18	0.0	0.0	-
10:19	0.0	0.0	10:19	0.0	0.0	-
10:20	0.0	0.0	10:20	0.0	0.0	-
10:21	0.0	0.0	10:21	0.0	0.0	-
10:22	0.0	0.0	10:22	0.0	0.0	-
10:23	0.0	0.0	10:23	0.0	0.0	-
10:24	0.0	0.0	10:24	0.0	0.0	-
10:25	0.0	0.0	10:25	0.0	0.0	-
10:26	0.0	0.0	10:26	0.0	0.0	-
10:27	0.0	0.0	10:27	0.0	0.0	-
10:28	0.0	0.0	10:28	0.0	0.0	-
10:29	0.0	0.0	10:29	0.0	0.0	-
10:30	0.0	0.0	10:30	0.0	0.0	-
10:31	0.0	0.0	10:31	0.0	0.0	-
10:32	0.0	0.0	10:32	0.0	0.0	-
10:33	0.0	0.0	10:33	0.0	0.0	-
10:34	0.0	0.0	10:34	0.0	0.0	-
10:35	0.0	0.0	10:35	0.0	0.0	-
10:36	0.0	0.0	10:36	0.0	0.0	-
10:37	0.0	0.0	10:37	0.0	0.0	-
10:38	0.0	0.0	10:38	0.0	0.0	-
10:39	0.0	0.0	10:39	0.0	0.0	-
10:40	0.0	0.0	10:40	0.0	0.0	-
10:41	0.0	0.0	10:41	0.0	0.0	-
10:42	0.0	0.0	10:42	0.0	0.0	-
10:43	0.0	0.0	10:43	0.0	0.0	-
10:44	0.0	0.0	10:44	0.0	0.0	-
10:45	0.0	0.0	10:45	0.0	0.0	-
10:46	0.0	0.0	10:46	0.0	0.0	-
10:47	0.0	0.0	10:47	0.0	0.0	-
10:48	0.0	0.0	10:48	0.0	0.0	-
10:49	0.0	0.0	10:49	0.0	0.0	-
10:50	0.0	0.0	10:50	0.0	0.0	-
10:51	0.0	0.0	10:51	0.0	0.0	-
10:52	0.0	0.0	10:52	0.0	0.0	-
10:53	0.0	0.0	10:53	0.0	0.0	-
10:54	0.0	0.0	10:54	0.0	0.0	-
10:55	0.0	0.0	10:55	0.0	0.0	-
10:56	0.0	0.0	10:56	0.0	0.0	-
10:57	0.0	0.0	10:57	0.0	0.0	-
10:58	0.0	0.0	10:58	0.0	0.0	-
10:59	0.0	0.0	10:59	0.0	0.0	-
11:00	0.0	0.0	11:00	0.0	0.0	-
11:01	0.0	0.0	11:01	0.0	0.0	-
11:02	0.0	0.0	11:02	0.0	0.0	-
11:03	0.0	0.0	11:03	0.0	0.0	-
11:04	0.0	0.0	11:04	0.0	0.0	-
11:05	0.0	0.0	11:05	0.0	0.0	-
11:06	0.0	0.0	11:06	0.0	0.0	-
11:07	0.0	0.0	11:07	0.0	0.0	-
11:08	0.0	0.0	11:08	0.0	0.0	-
11:09	0.0	0.0	11:09	0.0	0.0	-
11:10	0.0	0.0	11:10	0.0	0.0	-
11:11	0.0	0.0	11:11	0.0	0.0	-
11:12	0.0	0.0	11:12	0.0	0.0	-
11:13	0.0	0.0	11:13	0.0	0.0	-
11:14	0.0	0.0	11:14	0.0	0.0	-
11:15	0.0	0.0	11:15	0.0	0.0	-
11:16	0.0	0.0	11:16	0.0	0.0	-
11:17	0.0	0.0	11:17	0.0	0.0	-
11:18	0.0	0.0	11:18	0.0	0.0	-
11:19	0.0	0.0	11:19	0.0	0.0	-
11:20	0.0	0.0	11:20	0.0	0.0	-
11:21	0.0	0.0	11:21	0.0	0.0	-
11:22	0.0	0.0	11:22	0.0	0.0	-
11:23	0.0	0.0	11:23	0.0	0.0	-
11:24	0.0	0.0	11:24	0.0	0.0	-
11:25	0.0	0.0	11:25	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:26	0.0	0.0	11:26	0.0	0.0	-
11:27	0.0	0.0	11:27	0.0	0.0	-
11:28	0.0	0.0	11:28	0.0	0.0	-
11:29	0.0	0.0	11:29	0.0	0.0	-
11:30	0.0	0.0	11:30	0.0	0.0	-
11:31	0.0	0.0	11:31	0.0	0.0	-
11:32	0.0	0.0	11:32	0.0	0.0	-
11:33	0.0	0.0	11:33	0.0	0.0	-
11:34	0.0	0.0	11:34	0.0	0.0	-
11:35	0.0	0.0	11:35	0.0	0.0	-
11:36	0.0	0.0	11:36	0.0	0.0	-
11:37	0.0	0.0	11:37	0.0	0.0	-
11:38	0.1	0.0	11:38	0.0	0.0	-
11:39	0.1	0.0	11:39	0.0	0.0	-
11:40	0.1	0.0	11:40	0.0	0.0	-
11:41	0.1	0.0	11:41	0.0	0.0	-
11:42	0.1	0.0	11:42	0.0	0.0	-
11:43	0.0	0.0	11:43	0.0	0.0	-
11:44	0.1	0.0	11:44	0.0	0.0	-
11:45	0.1	0.0	11:45	0.0	0.0	-
11:46	0.1	0.1	11:46	0.0	0.0	-
11:47	0.1	0.1	11:47	0.0	0.0	-
11:48	0.0	0.1	11:48	0.0	0.0	-
11:49	0.1	0.1	11:49	0.0	0.0	-
11:50	0.1	0.1	11:50	0.0	0.0	-
11:51	0.1	0.1	11:51	0.0	0.0	-
11:52	0.1	0.1	11:52	0.0	0.0	-
11:53	0.0	0.1	11:53	0.0	0.0	-
11:54	0.0	0.1	11:54	0.0	0.0	-
11:55	0.1	0.1	11:55	0.0	0.0	-
11:56	0.0	0.1	11:56	0.0	0.0	-
11:57	0.0	0.1	11:57	0.0	0.0	-
11:58	0.1	0.1	11:58	0.0	0.0	-
11:59	0.1	0.1	11:59	0.0	0.0	-
12:00	0.0	0.1	12:00	0.0	0.0	-
12:01	0.0	0.1	12:01	0.0	0.0	-
12:02	0.0	0.0	12:02	0.0	0.0	-
12:03	0.0	0.0	12:03	0.0	0.0	-
12:04	0.0	0.0	12:04	0.0	0.0	-
12:05	0.0	0.0	12:05	0.0	0.0	-
12:06	0.0	0.0	12:06	0.0	0.0	-
12:07	0.0	0.0	12:07	0.0	0.0	-
12:08	0.0	0.0	12:08	0.0	0.0	-
12:09	0.0	0.0	12:09	0.0	0.0	-
12:10	0.0	0.0	12:10	0.0	0.0	-
12:11	0.0	0.0	12:11	0.0	0.0	-
12:12	0.0	0.0	12:12	0.0	0.0	-
12:13	0.0	0.0	12:13	0.0	0.0	-
12:14	0.0	0.0	12:14	0.0	0.0	-
12:15	0.0	0.0	12:15	0.0	0.0	-
12:16	0.0	0.0	12:16	0.0	0.0	-
12:17	0.0	0.0	12:17	0.0	0.0	-
12:18	0.0	0.0	12:18	0.0	0.0	-
12:19	0.0	0.0	12:19	0.0	0.0	-
12:20	0.0	0.0	12:20	0.0	0.0	-
12:21	0.0	0.0	12:21	0.0	0.0	-
12:22	0.0	0.0	12:22	0.0	0.0	-
12:23	0.1	0.0	12:23	0.0	0.1	-
12:24	0.0	0.0	12:24	0.0	0.1	-
12:25	0.1	0.0	12:25	0.0	0.1	-
12:26	0.0	0.0	12:26	0.1	0.1	-
12:27	0.1	0.0	12:27	0.0	0.1	-
12:28	0.0	0.0	12:28	0.1	0.1	-
12:29	0.0	0.0	12:29	0.0	0.1	-
12:30	0.0	0.0	12:30	0.1	0.1	-
12:31	0.0	0.0	12:31	0.0	0.1	-
12:32	0.0	0.0	12:32	0.1	0.1	-
12:33	0.0	0.0	12:33	0.0	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:34	0.0	0.0	12:34	0.0	0.1	-
12:35	0.0	0.0	12:35	0.1	0.1	-
12:36	0.0	0.0	12:36	0.1	0.1	-
12:37	0.0	0.0	12:37	0.1	0.1	-
12:38	0.0	0.0	12:38	0.1	0.1	-
12:39	0.0	0.0	12:39	0.1	0.1	-
12:40	0.0	0.0	12:40	0.1	0.1	-
12:41	0.0	0.0	12:41	0.1	0.1	-
12:42	0.0	0.0	12:42	0.1	0.1	-
12:43	0.0	0.0	12:43	0.1	0.1	-
12:44	0.0	0.0	12:44	0.1	0.1	-
12:45	0.0	0.0	12:45	0.1	0.1	-
12:46	0.0	0.0	12:46	0.1	0.1	-
12:47	0.0	0.0	12:47	0.1	0.1	-
12:48	0.0	0.0	12:48	0.1	0.1	-
12:49	0.0	0.0	12:49	0.1	0.1	-
12:50	0.0	0.0	12:50	0.1	0.1	-
12:51	0.0	0.0	12:51	0.1	0.1	-
12:52	0.0	0.0	12:52	0.1	0.1	-
12:53	0.0	0.0	12:53	0.1	0.1	-
12:54	0.0	0.0	12:54	0.1	0.1	-
12:55	0.0	0.0	12:55	0.1	0.1	-
12:56	0.0	0.0	12:56	0.1	0.1	-
12:57	0.0	0.0	12:57	0.1	0.1	-
12:58	0.0	0.0	12:58	0.1	0.1	-
12:59	0.0	0.0	12:59	0.1	0.1	-
13:00	0.0	0.0	13:00	0.1	0.1	-
13:01	0.0	0.0	13:01	0.1	0.1	-
13:02	0.0	0.0	13:02	0.1	0.2	-
13:03	0.0	0.0	13:03	0.1	0.2	-
13:04	0.0	0.0	13:04	0.1	0.2	-
13:05	0.0	0.0	13:05	0.1	0.2	-
13:06	0.0	0.0	13:06	0.1	0.2	-
13:07	0.0	0.0	13:07	0.1	0.2	-
13:08	0.0	0.0	13:08	0.1	0.2	-
13:09	0.0	0.0	13:09	0.1	0.2	-
13:10	0.0	0.0	13:10	0.2	0.2	-
13:11	0.0	0.0	13:11	0.2	0.2	-
13:12	0.0	0.0	13:12	0.2	0.2	-
13:13	0.0	0.0	13:13	0.2	0.2	-
13:14	0.0	0.0	13:14	0.2	0.2	-
13:15	0.0	0.0	13:15	0.2	0.2	-
13:16	0.0	0.0	13:16	0.2	0.2	-
13:17	0.0	0.0	13:17	0.2	0.2	-
13:18	0.0	0.0	13:18	0.2	0.2	-
13:19	0.0	0.0	13:19	0.2	0.2	-
13:20	0.0	0.0	13:20	0.2	0.2	-
13:21	0.0	0.0	13:21	0.2	0.2	-
13:22	0.0	0.0	13:22	0.2	0.2	-
13:23	0.0	0.0	13:23	0.2	0.2	-
13:24	0.0	0.0	13:24	0.2	0.2	-
13:25	0.0	0.0	13:25	0.2	0.2	-
13:26	0.0	0.0	13:26	0.2	0.2	-
13:27	0.0	0.0	13:27	0.2	0.2	-
13:28	0.0	0.0	13:28	0.2	0.2	-
13:29	0.0	0.0	13:29	0.2	0.2	-
13:30	0.0	0.0	13:30	0.2	0.2	-
13:31	0.0	0.0	13:31	0.2	0.2	-
13:32	0.0	0.0	13:32	0.2	0.2	-
13:33	0.0	0.0	13:33	0.2	0.2	-
13:34	0.0	0.0	13:34	0.2	0.2	-
13:35	0.0	0.0	13:35	0.2	0.2	-
13:36	0.0	0.0	13:36	0.2	0.2	-
13:37	0.0	0.0	13:37	0.2	0.2	-
13:38	0.0	0.0	13:38	0.2	0.2	-
13:39	0.0	0.0	13:39	0.2	0.2	-
13:40	0.0	0.0	13:40	0.2	0.2	-
13:41	0.0	0.0	13:41	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:42	0.0	0.0	13:42	0.2	0.2	-
13:43	0.0	0.0	13:43	0.2	0.2	-
13:44	0.0	0.0	13:44	0.2	0.2	-
13:45	0.0	0.0	13:45	0.2	0.2	-
13:46	0.0	0.0	13:46	0.2	0.2	-
13:47	0.0	0.0	13:47	0.2	0.2	-
13:48	0.0	0.0	13:48	0.2	0.2	-
13:49	0.0	0.0	13:49	0.2	0.2	-
13:50	0.0	0.0	13:50	0.2	0.2	-
13:51	0.0	0.0	13:51	0.2	0.2	-
13:52	0.0	0.0	13:52	0.2	0.2	-
13:53	0.1	0.0	13:53	0.2	0.2	-
13:54	0.1	0.0	13:54	0.2	0.2	-
13:55	0.1	0.0	13:55	0.2	0.2	-
13:56	0.0	0.0	13:56	0.2	0.2	-
13:57	0.0	0.0	13:57	0.2	0.2	-
13:58	0.0	0.0	13:58	0.2		

Date: 11/11/2022
Start: 7:00
End: 14:06
Observer: Tom Herold

UPWIND -
DOWNWIND -
UW
DW

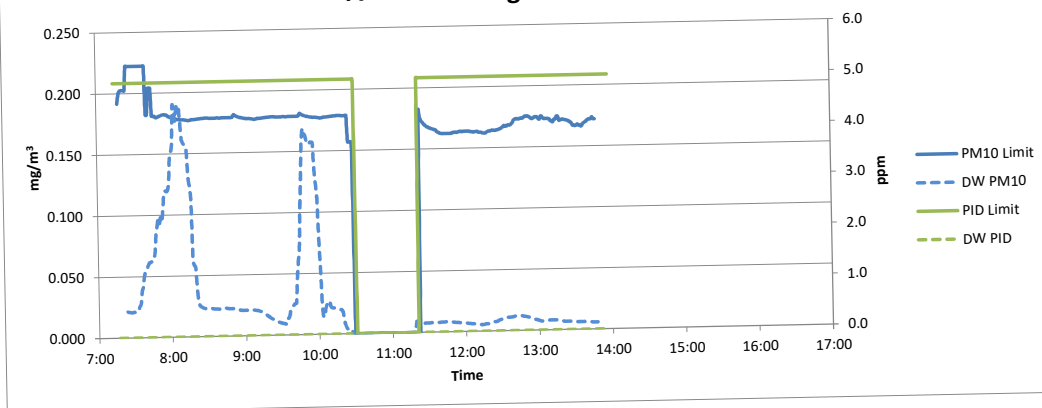
Particulate Monitoring		
	UW	DW
Daily Average	0.022	0.031
Minimum 15min Average	0.007	0.004
Maximum 15min Average	0.072	0.190
Exceedance (15min >.15)	NA	5
Minimum 1min Reading	0.006	0.002
Maximum 1min Reading	0.155	0.749

NA - Not applicable, upwind unit used for background concentrations
All reported units are mg/m³ (milligrams per cubic meter) unless specified otherwise

Organic Vapor Monitoring		
	UW	DW
Daily Average	0.0	0.0
Minimum 15min Average	0.0	0.0
Maximum 15min Average	0.0	0.0
Exceedance (15min >5)	NA	0
Minimum 1min Reading	0.0	0.0
Maximum 1min Reading	0.0	0.0

NA - Not applicable, upwind unit used for background concentrations
All reported units are ppm (parts per million) unless specified otherwise

Air Monitoring Data Summary



Friday, November 11, 2022						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =						5
Number of Comparable Data Points =						341
Start Time:						7:03
End Time:						14:04
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
7:03	0.032		7:03			
7:04	0.033		7:04			
7:05	0.031		7:05			
7:06	0.033		7:06			
7:07	0.032		7:07			
7:08	0.031		7:08			
7:09	0.030		7:09	0.025		
7:10	0.030		7:10	0.024		
7:11	0.029		7:11	0.024		
7:12	0.028		7:12	0.022		
7:13	0.028		7:13	0.021		
7:14	0.028		7:14	0.021		
7:15	0.027		7:15	0.019		
7:16	0.076		7:16	0.018		
7:17	0.155	0.042	7:17	0.018		
7:18	0.143	0.049	7:18	0.032		
7:19	0.079	0.052	7:19	0.022		
7:20	0.038	0.052	7:20	0.018		
7:21	0.033	0.052	7:21	0.019		
7:22	0.031	0.052	7:22	0.018		
7:23	0.029	0.052	7:23	0.019	0.021	-
7:24	0.032	0.072	7:24	0.019	0.021	-
7:25	0.031	0.072	7:25	0.022	0.021	-
7:26	0.033	0.072	7:26	0.022	0.021	-
7:27	0.034	0.072	7:27	0.022	0.021	-
7:28	0.032	0.072	7:28	0.024	0.021	-
7:29	0.030	0.072	7:29	0.024	0.021	-
7:30	0.030	0.072	7:30	0.019	0.021	-
7:31	0.029	0.072	7:31	0.019	0.021	-
7:32	0.038	0.072	7:32	0.049	0.023	-
7:33	0.044	0.072	7:33	0.070	0.026	-
7:34	0.034	0.072	7:34	0.053	0.028	-
7:35	0.030	0.072	7:35	0.174	0.038	-
7:36	0.029	0.072	7:36	0.069	0.042	-
7:37	0.030	0.072	7:37	0.147	0.050	-
7:38	0.030	0.072	7:38	0.086	0.055	-
7:39	0.030	0.072	7:39	0.042	0.056	-
7:40	0.030	0.032	7:40	0.056	0.058	-
7:41	0.032	0.032	7:41	0.058	0.061	-
7:42	0.031	0.054	7:42	0.030	0.061	-
7:43	0.028	0.054	7:43	0.034	0.062	-
7:44	0.028	0.054	7:44	0.027	0.062	-
7:45	0.026	0.031	7:45	0.051	0.064	-
7:46	0.028	0.031	7:46	0.098	0.070	-
7:47	0.036	0.031	7:47	0.269	0.084	-
7:48	0.029	0.030	7:48	0.168	0.091	-
7:49	0.031	0.030	7:49	0.154	0.098	-
7:50	0.038	0.030	7:50	0.109	0.093	-
7:51	0.037	0.031	7:51	0.154	0.099	-
7:52	0.035	0.031	7:52	0.101	0.096	-
7:53	0.036	0.032	7:53	0.218	0.105	-
7:54	0.035	0.032	7:54	0.249	0.118	-
7:55	0.033	0.032	7:55	0.075	0.120	-
7:56	0.028	0.032	7:56	0.050	0.119	-
7:57	0.030	0.032	7:57	0.045	0.120	-
7:58	0.029	0.031	7:58	0.112	0.125	-
7:59	0.039	0.031	7:59	0.330	0.146	-
8:00	0.046	0.030	8:00	0.128	0.151	-
8:01	0.040	0.030	8:01	0.202	0.158	-
8:02	0.056	0.029	8:02	0.749	0.190	X
8:03	0.062	0.029	8:03	0.085	0.184	X
8:04	0.062	0.028	8:04	0.045	0.177	-
8:05	0.031	0.028	8:05	0.268	0.187	X
8:06	0.033	0.028	8:06	0.194	0.190	X
8:07	0.033	0.028	8:07	0.073	0.188	X
8:08	0.031	0.028	8:08	0.038	0.176	-
8:09	0.030	0.028	8:09	0.033	0.162	-
8:10	0.030	0.028	8:10	0.030	0.159	-
8:11	0.030	0.028	8:11	0.029	0.157	-
8:12	0.027	0.028	8:12	0.027	0.156	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
8:13	0.029	0.027	8:13	0.025	0.150	-
8:14	0.027	0.027	8:14	0.024	0.130	-
8:15	0.028	0.027	8:15	0.022	0.123	-
8:16	0.030	0.027	8:16	0.021	0.111	-
8:17	0.027	0.027	8:17	0.022	0.062	-
8:18	0.027	0.028	8:18	0.023	0.058	-
8:19	0.026	0.028	8:19	0.023	0.057	-
8:20	0.026	0.028	8:20	0.022	0.040	-
8:21	0.026	0.028	8:21	0.021	0.029	-
8:22	0.026	0.028	8:22	0.024	0.026	-
8:23	0.027	0.028	8:23	0.023	0.025	-
8:24	0.026	0.028	8:24	0.023	0.024	-
8:25	0.027	0.028	8:25	0.022	0.023	-
8:26	0.028	0.028	8:26	0.023	0.023	-
8:27	0.032	0.029	8:27	0.023	0.023	-
8:28	0.028	0.029	8:28	0.024	0.023	-
8:29	0.027	0.029	8:29	0.024	0.023	-
8:30	0.026	0.029	8:30	0.023	0.023	-
8:31	0.026	0.029	8:31	0.022	0.023	-
8:32	0.029	0.029	8:32	0.022	0.023	-
8:33	0.032	0.028	8:33	0.021	0.023	-
8:34	0.029	0.028	8:34	0.021	0.023	-
8:35	0.029	0.029	8:35	0.021	0.022	-
8:36	0.030	0.029	8:36	0.021	0.022	-
8:37	0.028	0.029	8:37	0.021	0.022	-
8:38	0.029	0.029	8:38	0.023	0.022	-
8:39	0.032	0.029	8:39	0.030	0.023	-
8:40	0.029	0.029	8:40	0.028	0.023	-
8:41	0.028	0.029	8:41	0.025	0.023	-
8:42	0.028	0.029	8:42	0.022	0.023	-
8:43	0.026	0.029	8:43	0.021	0.023	-
8:44	0.025	0.029	8:44	0.021	0.023	-
8:45	0.026	0.029	8:45	0.020	0.023	-
8:46	0.026	0.029	8:46	0.020	0.022	-
8:47	0.026	0.029	8:47	0.021	0.022	-
8:48	0.025	0.029	8:48	0.021	0.022	-
8:49	0.026	0.029	8:49	0.021	0.022	-
8:50	0.026	0.029	8:50	0.021	0.022	-
8:51	0.026	0.029	8:51	0.021	0.022	-
8:52	0.025	0.031	8:52	0.021	0.022	-
8:53	0.026	0.031	8:53	0.020	0.022	-
8:54	0.025	0.030	8:54	0.020	0.022	-
8:55	0.026	0.030	8:55	0.021	0.021	-
8:56	0.026	0.029	8:56	0.021	0.021	-
8:57	0.026	0.029	8:57	0.021	0.021	-
8:58	0.026	0.028	8:58	0.021	0.021	-
8:59	0.028	0.028	8:59	0.021	0.021	-
9:00	0.029	0.028	9:00	0.021	0.021	-
9:01	0.028	0.028	9:01	0.023	0.021	-
9:02	0.027	0.028	9:02	0.023	0.021	-
9:03	0.026	0.028	9:03	0.021	0.021	-
9:04	0.024	0.028	9:04	0.022	0.021	-
9:05	0.023	0.028	9:05	0.020	0.021	-
9:06	0.023	0.028	9:06	0.019	0.021	-
9:07	0.026	0.027	9:07	0.018	0.021	-
9:08	0.024	0.027	9:08	0.018	0.021	-
9:09	0.023	0.027	9:09	0.018	0.021	-
9:10	0.020	0.027	9:10	0.017	0.020	-
9:11	0.016	0.027	9:11	0.016	0.020	-
9:12	0.017	0.028	9:12	0.016	0.020	-
9:13	0.017	0.028	9:13	0.014	0.019	-
9:14	0.017	0.028	9:14	0.013	0.019	-
9:15	0.020	0.028	9:15	0.011	0.018	-
9:16	0.017	0.028	9:16	0.011	0.017	-
9:17	0.015	0.028	9:17	0.011	0.016	-
9:18	0.015	0.028	9:18	0.010	0.016	-
9:19	0.014	0.028	9:19	0.010	0.015	-
9:20	0.015	0.028	9:20	0.010	0.014	-
9:21	0.014	0.029	9:21	0.010	0.014	-
9:22	0.013	0.029	9:22	0.010	0.013	-
9:23	0.013	0.029	9:23	0.010	0.012	-
9:24	0.013	0.029	9:24	0.009	0.012	-
9:25	0.013	0.029	9:25	0.009	0.011	-
9:26	0.013	0.029	9:26	0.009	0.011	-
9:27	0.013	0.028	9:27	0.009	0.010	-
9:28	0.012	0.028	9:28	0.009	0.010	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
9:29	0.013	0.029	9:29	0.009	0.010	-
9:30	0.014	0.029	9:30	0.008	0.010	-
9:31	0.014	0.029	9:31	0.007	0.009	-
9:32	0.013	0.029	9:32	0.007	0.009	-
9:33	0.013	0.029	9:33	0.007	0.009	-
9:34	0.013	0.029	9:34	0.073	0.013	-
9:35	0.012	0.029	9:35	0.037	0.015	-
9:36	0.013	0.029	9:36	0.077	0.019	-
9:37	0.013	0.029	9:37	0.031	0.021	-
9:38	0.015	0.029	9:38	0.040	0.023	-
9:39	0.010	0.029	9:39	0.039	0.025	-
9:40	0.009	0.029	9:40	0.021	0.026	-
9:41	0.008	0.029	9:41	0.017	0.026	-
9:42	0.008	0.029	9:42	0.318	0.047	-
9:43	0.010	0.029	9:43	0.207	0.060	-
9:44	0.025	0.029	9:44	0.170	0.071	-
9:45	0.013	0.029	9:45	0.512	0.104	-
9:46	0.011	0.031	9:46	0.382	0.129	-
9:47	0.011	0.031	9:47	0.437	0.158	-
9:48	0.028	0.030	9:48	0.167	0.169	-
9:49	0.024	0.030	9:49	0.011	0.164	-
9:50	0.009	0.029	9:50	0.017	0.163	-
9:51	0.009	0.029	9:51	0.013	0.159	-
9:52	0.009	0.028	9:52	0.012	0.158	-
9:53	0.010	0.028	9:53	0.010	0.156	-
9:54	0.010	0.028	9:54	0.065	0.157	-
9:55	0.016	0.028	9:55	0.021	0.157	-
9:56	0.010	0.028	9:56	0.012	0.157	-
9:57	0.008	0.028	9:57	0.007	0.136	-
9:58	0.008	0.028	9:58	0.008	0.123	-
9:59	0.008	0.028	9:59	0.004	0.112	-
10:00	0.007	0.028	10:00	0.007	0.078	-
10:01	0.007	0.027	10:01	0.006	0.053	-
10:02	0.007	0.027	10:02	0.015	0.025	-
10:03	0.007	0.027	10:03	0.005	0.014	-
10:04	0.006	0.027	10:04	0.036	0.016	-
10:05	0.009	0.027	10:05	0.106	0.022	-
10:06	0.016	0.028	10:06	0.056	0.025	-
10:07	0.037	0.028	10:07	0.041	0.027	-
10:08	0.013	0.028	10:08	0.014	0.027	-
10:09	0.007	0.028	10:09	0.003	0.023	-
10:10	0.007	0.028	10:10	0.004	0.022	-
10:11	0.007	0.028	10:11	0.008	0.021	-
10:12	0.009	0.028	10:12	0.006	0.021	-
10:13	0.009	0.028	10:13	0.005	0.021	-
10:14	0.008	0.028	10:14	0.004	0.021	-
10:15	0.007	0.029	10:15	0.003	0.021	-
10:16	0.007	0.029	10:16	0.004	0.021	-
10:17	0.007	0.029	10:17	0.003	0.020	-
10:18	0.006	0.029	10:18	0.002	0.020	-
10:19	0.006	0.029	10:19	0.002	0.017	-
10:20	0.006	0.029	10:20	0.003	0.011	-
10:21	0.007	0.028	10:21	0.004	0.007	-
10:22	0.006	0.028	10:22	0.003	0.005	-
10:23	0.006	0.029	10:23	0.003	0.004	-
10:24	0.007	0.029	10:24	0.003	0.004	-
10:25	0.008	0.007	10:25	0.005	0.004	-
10:26	0.007	0.007	10:26	0.004	0.004	-
10:27	0.007	0.007	10:27			
10:28	0.007	0.007	10:28			
10:29			10:29			
10:30			10:30			
10:31			10:31			
10:32			10:32			
10:33			10:33			
10:34			10:34			
10:35			10:35			
10:36			10:36			
10:37			10:37			
10:38			10:38			
10:39			10:39			
10:40			10:40			
10:41			10:41			
10:42			10:42			
10:43			10:43			
10:44			10:44			

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
10:45			10:45			
10:46			10:46			
10:47			10:47			
10:48			10:48			
10:49			10:49			
10:50			10:50			
10:51			10:51			
10:52			10:52			
10:53			10:53			
10:54			10:54			
10:55			10:55			
10:56			10:56			
10:57			10:57			
10:58			10:58			
10:59			10:59			
11:00			11:00			
11:01			11:01			
11:02			11:02			
11:03			11:03			
11:04			11:04			
11:05			11:05			
11:06			11:06			
11:07			11:07			
11:08			11:08			
11:09			11:09			
11:10			11:10			
11:11			11:11			
11:12			11:12			
11:13			11:13			
11:14			11:14			
11:15			11:15			
11:16			11:16			
11:17			11:17			
11:18			11:18			
11:19			11:19	0.009	0.009	
11:20			11:20	0.007	0.008	
11:21			11:21	0.007	0.008	
11:22			11:22	0.007	0.008	
11:23	0.032	0.032	11:23	0.007	0.007	-
11:24	0.020	0.026	11:24	0.007	0.007	-
11:25	0.019	0.024	11:25	0.007	0.007	-
11:26	0.017	0.022	11:26	0.008	0.007	-
11:27	0.016	0.021	11:27	0.008	0.007	-
11:28	0.014	0.020	11:28	0.007	0.007	-
11:29	0.014	0.019	11:29	0.007	0.007	-
11:30	0.013	0.018	11:30	0.010	0.008	-
11:31	0.014	0.018	11:31	0.009	0.008	-
11:32	0.012	0.017	11:32	0.008	0.008	-
11:33	0.012	0.017	11:33	0.008	0.008	-
11:34	0.012	0.016	11:34	0.009	0.008	-
11:35	0.013	0.016	11:35	0.008	0.008	-
11:36	0.011	0.016	11:36	0.008	0.008	-
11:37	0.010	0.015	11:37	0.007	0.008	-
11:38	0.012	0.014	11:38	0.007	0.008	-
11:39	0.013	0.013	11:39	0.009	0.008	-
11:40	0.010	0.013	11:40	0.008	0.008	-
11:41	0.010	0.012	11:41	0.008	0.008	-
11:42	0.013	0.012	11:42	0.008	0.008	-
11:43	0.014	0.012	11:43	0.009	0.008	-
11:44	0.015	0.012	11:44	0.007	0.008	-
11:45	0.013	0.012	11:45	0.007	0.008	-
11:46	0.014	0.012	11:46	0.007	0.008	-
11:47	0.012	0.012	11:47	0.008	0.008	-
11:48	0.012	0.012	11:48	0.009	0.008	-
11:49	0.011	0.012	11:49	0.007	0.008	-
11:50	0.015	0.012	11:50	0.006	0.008	-
11:51	0.020	0.013	11:51	0.006	0.008	-
11:52	0.011	0.013	11:52	0.006	0.007	-
11:53	0.015	0.013	11:53	0.007	0.007	-
11:54	0.011	0.013	11:54	0.007	0.007	-
11:55	0.013	0.013	11:55	0.008	0.007	-
11:56	0.013	0.013	11:56	0.008	0.007	-
11:57	0.019	0.014	11:57	0.007	0.007	-
11:58	0.010	0.014	11:58	0.006	0.007	-
11:59	0.013	0.013	11:59	0.005	0.007	-
12:00	0.020	0.014	12:00	0.005	0.007	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
12:01	0.012	0.014	12:01	0.005	0.007	-
12:02	0.013	0.014	12:02	0.006	0.007	-
12:03	0.010	0.014	12:03	0.006	0.006	-
12:04	0.014	0.014	12:04	0.006	0.006	-
12:05	0.011	0.014	12:05	0.004	0.006	-
12:06	0.013	0.013	12:06	0.005	0.006	-
12:07	0.011	0.013	12:07	0.005	0.006	-
12:08	0.012	0.013	12:08	0.005	0.006	-
12:09	0.014	0.013	12:09	0.005	0.006	-
12:10	0.016	0.013	12:10	0.005	0.006	-
12:11	0.014	0.013	12:11	0.006	0.005	-
12:12	0.010	0.013	12:12	0.005	0.005	-
12:13	0.010	0.013	12:13	0.006	0.005	-
12:14	0.012	0.013	12:14	0.007	0.005	-
12:15	0.011	0.012	12:15	0.010	0.006	-
12:16	0.010	0.012	12:16	0.007	0.006	-
12:17	0.013	0.012	12:17	0.007	0.006	-
12:18	0.011	0.012	12:18	0.007	0.006	-
12:19	0.025	0.013	12:19	0.008	0.006	-
12:20	0.020	0.013	12:20	0.012	0.007	-
12:21	0.013	0.013	12:21	0.011	0.007	-
12:22	0.016	0.014	12:22	0.008	0.007	-
12:23	0.019	0.014	12:23	0.008	0.007	-
12:24	0.011	0.014	12:24	0.007	0.008	-
12:25	0.018	0.014	12:25	0.007	0.008	-
12:26	0.013	0.014	12:26	0.017	0.008	-
12:27	0.014	0.014	12:27	0.012	0.009	-
12:28	0.014	0.015	12:28	0.010	0.009	-
12:29	0.018	0.015	12:29	0.011	0.009	-
12:30	0.014	0.015	12:30	0.013	0.010	-
12:31	0.023	0.016	12:31	0.014	0.010	-
12:32	0.022	0.017	12:32	0.015	0.011	-
12:33	0.028	0.018	12:33	0.009	0.011	-
12:34	0.017	0.017	12:34	0.009	0.011	-
12:35	0.021	0.017	12:35	0.011	0.011	-
12:36	0.025	0.018	12:36	0.012	0.011	-
12:37	0.016	0.018	12:37	0.012	0.011	-
12:38	0.019	0.018	12:38	0.009	0.011	-
12:39	0.027	0.019	12:39	0.013	0.012	-
12:40	0.033	0.020	12:40	0.012	0.012	-
12:41	0.042	0.022	12:41	0.014	0.012	-
12:42	0.025	0.023	12:42	0.012	0.012	-
12:43	0.019	0.023	12:43	0.011	0.012	-
12:44	0.015	0.023	12:44	0.012	0.012	-
12:45	0.013	0.023	12:45	0.013	0.012	-
12:46	0.029	0.023	12:46	0.012	0.012	-
12:47	0.026	0.024	12:47	0.010	0.011	-
12:48	0.026	0.024	12:48	0.008	0.011	-
12:49	0.026	0.024	12:49	0.007	0.011	-
12:50	0.036	0.025	12:50	0.006	0.011	-
12:51	0.025	0.025	12:51	0.009	0.011	-
12:52	0.020	0.025	12:52	0.007	0.010	-
12:53	0.013	0.025	12:53	0.005	0.010	-
12:54	0.017	0.024	12:54	0.006	0.010	-
12:55	0.019	0.023	12:55	0.007	0.009	-
12:56	0.037	0.023	12:56	0.007	0.009	-
12:57	0.032	0.024	12:57	0.008	0.009	-
12:58	0.032	0.024	12:58	0.009	0.008	-
12:59	0.018	0.025	12:59	0.006	0.008	-
13:00	0.009	0.024	13:00	0.007	0.008	-
13:01	0.012	0.023	13:01	0.008	0.007	-
13:02	0.015	0.022	13:02	0.010	0.007	-
13:03	0.064	0.025	13:03	0.011	0.008	-
13:04	0.020	0.025	13:04	0.010	0.008	-
13:05	0.017	0.023	13:05	0.008	0.008	-
13:06	0.017	0.023	13:06	0.008	0.008	-
13:07	0.023	0.023	13:07	0.007	0.008	-
13:08	0.014	0.023	13:08	0.007	0.008	-
13:09	0.013	0.023	13:09	0.007	0.008	-
13:10	0.017	0.023	13:10	0.007	0.008	-
13:11	0.014	0.021	13:11	0.007	0.008	-
13:12	0.026	0.021	13:12	0.007	0.008	-
13:13	0.024	0.020	13:13	0.009	0.008	-
13:14	0.046	0.022	13:14	0.007	0.008	-
13:15	0.015	0.022	13:15	0.006	0.008	-
13:16	0.044	0.025	13:16	0.006	0.008	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
13:17	0.015	0.025	13:17	0.006	0.008	-
13:18	0.015	0.021	13:18	0.007	0.007	-
13:19	0.024	0.022	13:19	0.005	0.007	-
13:20	0.022	0.022	13:20	0.006	0.007	-
13:21	0.021	0.022	13:21	0.008	0.007	-
13:22	0.017	0.022	13:22	0.006	0.007	-
13:23	0.012	0.022	13:23	0.006	0.007	-
13:24	0.009	0.021	13:24	0.007	0.007	-
13:25	0.010	0.021	13:25	0.006	0.007	-
13:26	0.010	0.021	13:26	0.007	0.007	-
13:27	0.012	0.020	13:27	0.006	0.007	-
13:28	0.017	0.019	13:28	0.007	0.006	-
13:29	0.015	0.017	13:29	0.006	0.006	-
13:30	0.012	0.017	13:30	0.005	0.006	-
13:31	0.038	0.017	13:31	0.005	0.006	-
13:32	0.021	0.017	13:32	0.006	0.006	-
13:33	0.028	0.018	13:33	0.006	0.006	-
13:34	0.012	0.017	13:34	0.007	0.006	-
13:35	0.020	0.017	13:35	0.006	0.006	-
13:36	0.010	0.016	13:36	0.006	0.006	-
13:37	0.037	0.018	13:37	0.006	0.006	-
13:38	0.031	0.019	13:38	0.007	0.006	-
13:39	0.018	0.019	13:39	0.005	0.006	-
13:40	0.019	0.020	13:40	0.006	0.006	-
13:41	0.026	0.021	13:41	0.005	0.006	-
13:42	0.022	0.022	13:42	0.005	0.006	-
13:43	0.021	0.022	13:43	0.004	0.006	-
13:44	0.016	0.022	13:44	0.005	0.006	-
13:45	0.034	0.024	13:45	0.006	0.006	-
13:46	0.015	0.022	13:46	0.005	0.006	-
13:47	0.019	0.022	13:47	0.007	0.006	-
13:48	0.019	0.021	13:48	0.006	0.006	-
13:49	0.027	0.022	13:49	0.005	0.006	-
13:50	0.017	0.022	13:50	0.004	0.005	-
13:51	0.013	0.022	13:51	0.004	0.005	-
13:52	0.016	0.021	13:52	0.006	0.005	-
13:53	0.016	0.020	13:53	0.006	0.005	-
13:54	0.015	0.020	13:54	0.006	0.005	-
13:55	0.018	0.020	13:55	0.005	0.005	-
13:56	0.027	0.020	13:56	0.006	0.005	-
13:57	0.016	0.019	13:57	0.005	0.005	-
13:58	0.026	0.020	13:58	0.004	0.005	-
13:59	0.017	0.020	13:59	0.004	0.005	-
14:00			14:00	0.005	0.005	
14:01			14:01	0.004	0.005	
14:02			14:02	0.004	0.005	
14:03			14:03	0.004	0.005	
14:04			14:04	0.004	0.005	

Friday, November 11, 2022						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =						0
Number of Comparable Data Points =						346
Start Time:						7:00
End Time:						14:06
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:00			7:00			
7:01			7:01			
7:02			7:02			
7:03	0.0		7:03	0.0		
7:04	0.0		7:04	0.0		
7:05	0.0		7:05	0.0		
7:06	0.0		7:06	0.0		
7:07	0.0		7:07	0.0		
7:08	0.0		7:08	0.0		
7:09	0.0		7:09	0.0		
7:10	0.0		7:10	0.0		
7:11	0.0		7:11	0.0		
7:12	0.0		7:12	0.0		
7:13	0.0		7:13	0.0		
7:14	0.0		7:14	0.0		
7:15	0.0		7:15	0.0		
7:16	0.0		7:16	0.0		
7:17	0.0	0.0	7:17	0.0	0.0	-
7:18	0.0	0.0	7:18	0.0	0.0	-
7:19	0.0	0.0	7:19	0.0	0.0	-
7:20	0.0	0.0	7:20	0.0	0.0	-
7:21	0.0	0.0	7:21	0.0	0.0	-
7:22	0.0	0.0	7:22	0.0	0.0	-
7:23	0.0	0.0	7:23	0.0	0.0	-
7:24	0.0	0.0	7:24	0.0	0.0	-
7:25	0.0	0.0	7:25	0.0	0.0	-
7:26	0.0	0.0	7:26	0.0	0.0	-
7:27	0.0	0.0	7:27	0.0	0.0	-
7:28	0.0	0.0	7:28	0.0	0.0	-
7:29	0.0	0.0	7:29	0.0	0.0	-
7:30	0.0	0.0	7:30	0.0	0.0	-
7:31	0.0	0.0	7:31	0.0	0.0	-
7:32	0.0	0.0	7:32	0.0	0.0	-
7:33	0.0	0.0	7:33	0.0	0.0	-
7:34	0.0	0.0	7:34	0.0	0.0	-
7:35	0.0	0.0	7:35	0.0	0.0	-
7:36	0.0	0.0	7:36	0.0	0.0	-
7:37	0.0	0.0	7:37	0.0	0.0	-
7:38	0.0	0.0	7:38	0.0	0.0	-
7:39	0.0	0.0	7:39	0.0	0.0	-
7:40	0.0	0.0	7:40	0.0	0.0	-
7:41	0.0	0.0	7:41	0.0	0.0	-
7:42	0.0	0.0	7:42	0.0	0.0	-
7:43	0.0	0.0	7:43	0.0	0.0	-
7:44	0.0	0.0	7:44	0.0	0.0	-
7:45	0.0	0.0	7:45	0.0	0.0	-
7:46	0.0	0.0	7:46	0.0	0.0	-
7:47	0.0	0.0	7:47	0.0	0.0	-
7:48	0.0	0.0	7:48	0.0	0.0	-
7:49	0.0	0.0	7:49	0.0	0.0	-
7:50	0.0	0.0	7:50	0.0	0.0	-
7:51	0.0	0.0	7:51	0.0	0.0	-
7:52	0.0	0.0	7:52	0.0	0.0	-
7:53	0.0	0.0	7:53	0.0	0.0	-
7:54	0.0	0.0	7:54	0.0	0.0	-
7:55	0.0	0.0	7:55	0.0	0.0	-
7:56	0.0	0.0	7:56	0.0	0.0	-
7:57	0.0	0.0	7:57	0.0	0.0	-
7:58	0.0	0.0	7:58	0.0	0.0	-
7:59	0.0	0.0	7:59	0.0	0.0	-
8:00	0.0	0.0	8:00	0.0	0.0	-
8:01	0.0	0.0	8:01	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
8:02	0.0	0.0	8:02	0.0	0.0	-
8:03	0.0	0.0	8:03	0.0	0.0	-
8:04	0.0	0.0	8:04	0.0	0.0	-
8:05	0.0	0.0	8:05	0.0	0.0	-
8:06	0.0	0.0	8:06	0.0	0.0	-
8:07	0.0	0.0	8:07	0.0	0.0	-
8:08	0.0	0.0	8:08	0.0	0.0	-
8:09	0.0	0.0	8:09	0.0	0.0	-
8:10	0.0	0.0	8:10	0.0	0.0	-
8:11	0.0	0.0	8:11	0.0	0.0	-
8:12	0.0	0.0	8:12	0.0	0.0	-
8:13	0.0	0.0	8:13	0.0	0.0	-
8:14	0.0	0.0	8:14	0.0	0.0	-
8:15	0.0	0.0	8:15	0.0	0.0	-
8:16	0.0	0.0	8:16	0.0	0.0	-
8:17	0.0	0.0	8:17	0.0	0.0	-
8:18	0.0	0.0	8:18	0.0	0.0	-
8:19	0.0	0.0	8:19	0.0	0.0	-
8:20	0.0	0.0	8:20	0.0	0.0	-
8:21	0.0	0.0	8:21	0.0	0.0	-
8:22	0.0	0.0	8:22	0.0	0.0	-
8:23	0.0	0.0	8:23	0.0	0.0	-
8:24	0.0	0.0	8:24	0.0	0.0	-
8:25	0.0	0.0	8:25	0.0	0.0	-
8:26	0.0	0.0	8:26	0.0	0.0	-
8:27	0.0	0.0	8:27	0.0	0.0	-
8:28	0.0	0.0	8:28	0.0	0.0	-
8:29	0.0	0.0	8:29	0.0	0.0	-
8:30	0.0	0.0	8:30	0.0	0.0	-
8:31	0.0	0.0	8:31	0.0	0.0	-
8:32	0.0	0.0	8:32	0.0	0.0	-
8:33	0.0	0.0	8:33	0.0	0.0	-
8:34	0.0	0.0	8:34	0.0	0.0	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.0	0.0	-
8:42	0.0	0.0	8:42	0.0	0.0	-
8:43	0.0	0.0	8:43	0.0	0.0	-
8:44	0.0	0.0	8:44	0.0	0.0	-
8:45	0.0	0.0	8:45	0.0	0.0	-
8:46	0.0	0.0	8:46	0.0	0.0	-
8:47	0.0	0.0	8:47	0.0	0.0	-
8:48	0.0	0.0	8:48	0.0	0.0	-
8:49	0.0	0.0	8:49	0.0	0.0	-
8:50	0.0	0.0	8:50	0.0	0.0	-
8:51	0.0	0.0	8:51	0.0	0.0	-
8:52	0.0	0.0	8:52	0.0	0.0	-
8:53	0.0	0.0	8:53	0.0	0.0	-
8:54	0.0	0.0	8:54	0.0	0.0	-
8:55	0.0	0.0	8:55	0.0	0.0	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.0	0.0	-
9:01	0.0	0.0	9:01	0.0	0.0	-
9:02	0.0	0.0	9:02	0.0	0.0	-
9:03	0.0	0.0	9:03	0.0	0.0	-
9:04	0.0	0.0	9:04	0.0	0.0	-
9:05	0.0	0.0	9:05	0.0	0.0	-
9:06	0.0	0.0	9:06	0.0	0.0	-
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.0	0.0	-
9:52	0.0	0.0	9:52	0.0	0.0	-
9:53	0.0	0.0	9:53	0.0	0.0	-
9:54	0.0	0.0	9:54	0.0	0.0	-
9:55	0.0	0.0	9:55	0.0	0.0	-
9:56	0.0	0.0	9:56	0.0	0.0	-
9:57	0.0	0.0	9:57	0.0	0.0	-
9:58	0.0	0.0	9:58	0.0	0.0	-
9:59	0.0	0.0	9:59	0.0	0.0	-
10:00	0.0	0.0	10:00	0.0	0.0	-
10:01	0.0	0.0	10:01	0.0	0.0	-
10:02	0.0	0.0	10:02	0.0	0.0	-
10:03	0.0	0.0	10:03	0.0	0.0	-
10:04	0.0	0.0	10:04	0.0	0.0	-
10:05	0.0	0.0	10:05	0.0	0.0	-
10:06	0.0	0.0	10:06	0.0	0.0	-
10:07	0.0	0.0	10:07	0.0	0.0	-
10:08	0.0	0.0	10:08	0.0	0.0	-
10:09	0.0	0.0	10:09	0.0	0.0	-
10:10	0.0	0.0	10:10	0.0	0.0	-
10:11	0.0	0.0	10:11	0.0	0.0	-
10:12	0.0	0.0	10:12	0.0	0.0	-
10:13	0.0	0.0	10:13	0.0	0.0	-
10:14	0.0	0.0	10:14	0.0	0.0	-
10:15	0.0	0.0	10:15	0.0	0.0	-
10:16	0.0	0.0	10:16	0.0	0.0	-
10:17	0.0	0.0	10:17	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:18	0.0	0.0	10:18	0.0	0.0	-
10:19	0.0	0.0	10:19	0.0	0.0	-
10:20	0.0	0.0	10:20	0.0	0.0	-
10:21	0.0	0.0	10:21	0.0	0.0	-
10:22	0.0	0.0	10:22	0.0	0.0	-
10:23	0.0	0.0	10:23	0.0	0.0	-
10:24	0.0	0.0	10:24	0.0	0.0	-
10:25	0.0	0.0	10:25	0.0	0.0	-
10:26	0.0	0.0	10:26	0.0	0.0	-
10:27	0.0	0.0	10:27	0.0		
10:28	0.0	0.0	10:28			
10:29	0.0	0.0	10:29			
10:30	0.0	0.0	10:30			
10:31			10:31			
10:32			10:32			
10:33			10:33			
10:34			10:34			
10:35			10:35			
10:36			10:36			
10:37			10:37			
10:38			10:38			
10:39			10:39			
10:40			10:40			
10:41			10:41			
10:42			10:42			
10:43			10:43			
10:44			10:44			
10:45			10:45			
10:46			10:46			
10:47			10:47			
10:48			10:48			
10:49			10:49			
10:50			10:50			
10:51			10:51			
10:52			10:52			
10:53			10:53			
10:54			10:54			
10:55			10:55			
10:56			10:56			
10:57			10:57			
10:58			10:58			
10:59			10:59			
11:00			11:00			
11:01			11:01			
11:02			11:02			
11:03			11:03			
11:04			11:04		0.0	
11:05			11:05		0.0	
11:06			11:06		0.0	
11:07			11:07		0.0	
11:08			11:08		0.0	
11:09			11:09		0.0	
11:10			11:10		0.0	
11:11			11:11		0.0	
11:12			11:12		0.0	
11:13			11:13		0.0	
11:14			11:14		0.0	
11:15			11:15		0.0	
11:16			11:16		0.0	
11:17			11:17		0.0	
11:18			11:18		0.0	
11:19			11:19	0.0	0.0	
11:20			11:20	0.0	0.0	
11:21			11:21	0.0	0.0	
11:22	0.0	0.0	11:22	0.0	0.0	-
11:23	0.0	0.0	11:23	0.0	0.0	-
11:24	0.0	0.0	11:24	0.0	0.0	-
11:25	0.0	0.0	11:25	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:26	0.0	0.0	11:26	0.0	0.0	-
11:27	0.0	0.0	11:27	0.0	0.0	-
11:28	0.0	0.0	11:28	0.0	0.0	-
11:29	0.0	0.0	11:29	0.0	0.0	-
11:30	0.0	0.0	11:30	0.0	0.0	-
11:31	0.0	0.0	11:31	0.0	0.0	-
11:32	0.0	0.0	11:32	0.0	0.0	-
11:33	0.0	0.0	11:33	0.0	0.0	-
11:34	0.0	0.0	11:34	0.0	0.0	-
11:35	0.0	0.0	11:35	0.0	0.0	-
11:36	0.0	0.0	11:36	0.0	0.0	-
11:37	0.0	0.0	11:37	0.0	0.0	-
11:38	0.0	0.0	11:38	0.0	0.0	-
11:39	0.0	0.0	11:39	0.0	0.0	-
11:40	0.0	0.0	11:40	0.0	0.0	-
11:41	0.0	0.0	11:41	0.0	0.0	-
11:42	0.0	0.0	11:42	0.0	0.0	-
11:43	0.0	0.0	11:43	0.0	0.0	-
11:44	0.0	0.0	11:44	0.0	0.0	-
11:45	0.0	0.0	11:45	0.0	0.0	-
11:46	0.0	0.0	11:46	0.0	0.0	-
11:47	0.0	0.0	11:47	0.0	0.0	-
11:48	0.0	0.0	11:48	0.0	0.0	-
11:49	0.0	0.0	11:49	0.0	0.0	-
11:50	0.0	0.0	11:50	0.0	0.0	-
11:51	0.0	0.0	11:51	0.0	0.0	-
11:52	0.0	0.0	11:52	0.0	0.0	-
11:53	0.0	0.0	11:53	0.0	0.0	-
11:54	0.0	0.0	11:54	0.0	0.0	-
11:55	0.0	0.0	11:55	0.0	0.0	-
11:56	0.0	0.0	11:56	0.0	0.0	-
11:57	0.0	0.0	11:57	0.0	0.0	-
11:58	0.0	0.0	11:58	0.0	0.0	-
11:59	0.0	0.0	11:59	0.0	0.0	-
12:00	0.0	0.0	12:00	0.0	0.0	-
12:01	0.0	0.0	12:01	0.0	0.0	-
12:02	0.0	0.0	12:02	0.0	0.0	-
12:03	0.0	0.0	12:03	0.0	0.0	-
12:04	0.0	0.0	12:04	0.0	0.0	-
12:05	0.0	0.0	12:05	0.0	0.0	-
12:06	0.0	0.0	12:06	0.0	0.0	-
12:07	0.0	0.0	12:07	0.0	0.0	-
12:08	0.0	0.0	12:08	0.0	0.0	-
12:09	0.0	0.0	12:09	0.0	0.0	-
12:10	0.0	0.0	12:10	0.0	0.0	-
12:11	0.0	0.0	12:11	0.0	0.0	-
12:12	0.0	0.0	12:12	0.0	0.0	-
12:13	0.0	0.0	12:13	0.0	0.0	-
12:14	0.0	0.0	12:14	0.0	0.0	-
12:15	0.0	0.0	12:15	0.0	0.0	-
12:16	0.0	0.0	12:16	0.0	0.0	-
12:17	0.0	0.0	12:17	0.0	0.0	-
12:18	0.0	0.0	12:18	0.0	0.0	-
12:19	0.0	0.0	12:19	0.0	0.0	-
12:20	0.0	0.0	12:20	0.0	0.0	-
12:21	0.0	0.0	12:21	0.0	0.0	-
12:22	0.0	0.0	12:22	0.0	0.0	-
12:23	0.0	0.0	12:23	0.0	0.0	-
12:24	0.0	0.0	12:24	0.0	0.0	-
12:25	0.0	0.0	12:25	0.0	0.0	-
12:26	0.0	0.0	12:26	0.0	0.0	-
12:27	0.0	0.0	12:27	0.0	0.0	-
12:28	0.0	0.0	12:28	0.0	0.0	-
12:29	0.0	0.0	12:29	0.0	0.0	-
12:30	0.0	0.0	12:30	0.0	0.0	-
12:31	0.0	0.0	12:31	0.0	0.0	-
12:32	0.0	0.0	12:32	0.0	0.0	-
12:33	0.0	0.0	12:33	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:34	0.0	0.0	12:34	0.0	0.0	-
12:35	0.0	0.0	12:35	0.0	0.0	-
12:36	0.0	0.0	12:36	0.0	0.0	-
12:37	0.0	0.0	12:37	0.0	0.0	-
12:38	0.0	0.0	12:38	0.0	0.0	-
12:39	0.0	0.0	12:39	0.0	0.0	-
12:40	0.0	0.0	12:40	0.0	0.0	-
12:41	0.0	0.0	12:41	0.0	0.0	-
12:42	0.0	0.0	12:42	0.0	0.0	-
12:43	0.0	0.0	12:43	0.0	0.0	-
12:44	0.0	0.0	12:44	0.0	0.0	-
12:45	0.0	0.0	12:45	0.0	0.0	-
12:46	0.0	0.0	12:46	0.0	0.0	-
12:47	0.0	0.0	12:47	0.0	0.0	-
12:48	0.0	0.0	12:48	0.0	0.0	-
12:49	0.0	0.0	12:49	0.0	0.0	-
12:50	0.0	0.0	12:50	0.0	0.0	-
12:51	0.0	0.0	12:51	0.0	0.0	-
12:52	0.0	0.0	12:52	0.0	0.0	-
12:53	0.0	0.0	12:53	0.0	0.0	-
12:54	0.0	0.0	12:54	0.0	0.0	-
12:55	0.0	0.0	12:55	0.0	0.0	-
12:56	0.0	0.0	12:56	0.0	0.0	-
12:57	0.0	0.0	12:57	0.0	0.0	-
12:58	0.0	0.0	12:58	0.0	0.0	-
12:59	0.0	0.0	12:59	0.0	0.0	-
13:00	0.0	0.0	13:00	0.0	0.0	-
13:01	0.0	0.0	13:01	0.0	0.0	-
13:02	0.0	0.0	13:02	0.0	0.0	-
13:03	0.0	0.0	13:03	0.0	0.0	-
13:04	0.0	0.0	13:04	0.0	0.0	-
13:05	0.0	0.0	13:05	0.0	0.0	-
13:06	0.0	0.0	13:06	0.0	0.0	-
13:07	0.0	0.0	13:07	0.0	0.0	-
13:08	0.0	0.0	13:08	0.0	0.0	-
13:09	0.0	0.0	13:09	0.0	0.0	-
13:10	0.0	0.0	13:10	0.0	0.0	-
13:11	0.0	0.0	13:11	0.0	0.0	-
13:12	0.0	0.0	13:12	0.0	0.0	-
13:13	0.0	0.0	13:13	0.0	0.0	-
13:14	0.0	0.0	13:14	0.0	0.0	-
13:15	0.0	0.0	13:15	0.0	0.0	-
13:16	0.0	0.0	13:16	0.0	0.0	-
13:17	0.0	0.0	13:17	0.0	0.0	-
13:18	0.0	0.0	13:18	0.0	0.0	-
13:19	0.0	0.0	13:19	0.0	0.0	-
13:20	0.0	0.0	13:20	0.0	0.0	-
13:21	0.0	0.0	13:21	0.0	0.0	-
13:22	0.0	0.0	13:22	0.0	0.0	-
13:23	0.0	0.0	13:23	0.0	0.0	-
13:24	0.0	0.0	13:24	0.0	0.0	-
13:25	0.0	0.0	13:25	0.0	0.0	-
13:26	0.0	0.0	13:26	0.0	0.0	-
13:27	0.0	0.0	13:27	0.0	0.0	-
13:28	0.0	0.0	13:28	0.0	0.0	-
13:29	0.0	0.0	13:29	0.0	0.0	-
13:30	0.0	0.0	13:30	0.0	0.0	-
13:31	0.0	0.0	13:31	0.0	0.0	-
13:32	0.0	0.0	13:32	0.0	0.0	-
13:33	0.0	0.0	13:33	0.0	0.0	-
13:34	0.0	0.0	13:34	0.0	0.0	-
13:35	0.0	0.0	13:35	0.0	0.0	-
13:36	0.0	0.0	13:36	0.0	0.0	-
13:37	0.0	0.0	13:37	0.0	0.0	-
13:38	0.0	0.0	13:38	0.0	0.0	-
13:39	0.0	0.0	13:39	0.0	0.0	-
13:40	0.0	0.0	13:40	0.0	0.0	-
13:41	0.0	0.0	13:41	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:42	0.0	0.0	13:42	0.0	0.0	-
13:43	0.0	0.0	13:43	0.0	0.0	-
13:44	0.0	0.0	13:44	0.0	0.0	-
13:45	0.0	0.0	13:45	0.0	0.0	-
13:46	0.0	0.0	13:46	0.0	0.0	-
13:47	0.0	0.0	13:47	0.0	0.0	-
13:48	0.0	0.0	13:48	0.0	0.0	-
13:49	0.0	0.0	13:49	0.0	0.0	-
13:50	0.0	0.0	13:50	0.0	0.0	-
13:51	0.0	0.0	13:51	0.0	0.0	-
13:52	0.0	0.0	13:52	0.0	0.0	-
13:53	0.0	0.0	13:53	0.0	0.0	-
13:54	0.0	0.0	13:54	0.0	0.0	-
13:55	0.0	0.0	13:55	0.0	0.0	-
13:56	0.0	0.0	13:56	0.0	0.0	-
13:57	0.0	0.0	13:57	0.0	0.0	-
13:58	0.0	0.0	13:58	0.0		
13:59	0.0		13:59	0.0		
14:00	0.0		14:00	0.0		
14:01	0.0		14:01	0.0		
14:02	0.0		14:02	0.0		
14:03	0.0		14:03	0.0		
14:04	0.0		14:04	0.0		
14:05			14:05	0.0		
14:06			14:06	0.0		

Date: 11/14/2022

Start: 6:57

End: 14:03

Observer: Tom Herold

UPWIND - UW
DOWNWIND - DW

Particulate Monitoring		
	UW	DW
Daily Average	0.003	0.008
Minimum 15min Average	0.002	0.002
Maximum 15min Average	0.003	0.020
Exceedance (15min >.15)	NA	0
Minimum 1min Reading	0.000	0.000
Maximum 1min Reading	0.006	0.154

NA - Not applicable, upwind unit used for background concentrations

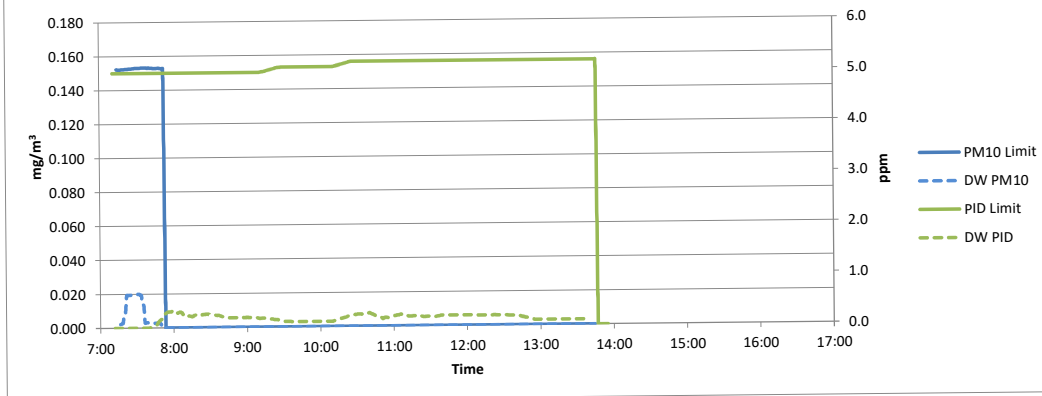
All reported units are mg/m³ (milligrams per cubic meter) unless specified otherwise

Organic Vapor Monitoring		
	UW	DW
Daily Average	0.1	0.2
Minimum 15min Average	0.0	0.0
Maximum 15min Average	0.2	0.3
Exceedance (15min >5)	NA	0
Minimum 1min Reading	0.0	0.0
Maximum 1min Reading	0.2	1.0

NA - Not applicable, upwind unit used for background concentrations

All reported units are ppm (parts per million) unless specified otherwise

Air Monitoring Data Summary



Monday, November 14, 2022						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =						0
Number of Comparable Data Points =						34
Start Time:						7:00
End Time:						14:01
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
7:00	0.006		7:00			
7:01	0.001		7:01			
7:02	0.002		7:02	0.003		
7:03	0.002		7:03	0.002		
7:04	0.002		7:04	0.002		
7:05	0.002		7:05	0.002		
7:06	0.002		7:06	0.002		
7:07	0.002		7:07	0.002		
7:08	0.003		7:08	0.003		
7:09	0.002		7:09	0.003		
7:10	0.002		7:10	0.002		
7:11	0.002		7:11	0.002		
7:12	0.002		7:12	0.002		
7:13	0.002		7:13	0.002		
7:14	0.002	0.002	7:14	0.002		
7:15	0.002	0.002	7:15	0.002		
7:16	0.002	0.002	7:16	0.002	0.002	-
7:17	0.003	0.002	7:17	0.008	0.003	-
7:18	0.003	0.002	7:18	0.008	0.003	-
7:19	0.003	0.002	7:19	0.083	0.008	-
7:20	0.003	0.002	7:20	0.012	0.009	-
7:21	0.003	0.002	7:21	0.154	0.019	-
7:22	0.003	0.002	7:22	0.003	0.019	-
7:23	0.003	0.002	7:23	0.005	0.019	-
7:24	0.004	0.003	7:24	0.004	0.019	-
7:25	0.003	0.003	7:25	0.003	0.019	-
7:26	0.003	0.003	7:26	0.003	0.020	-
7:27	0.003	0.003	7:27	0.004	0.020	-
7:28	0.003	0.003	7:28	0.003	0.020	-
7:29	0.003	0.003	7:29	0.003	0.020	-
7:30	0.003	0.003	7:30	0.003	0.020	-
7:31	0.003	0.003	7:31	0.003	0.020	-
7:32	0.003	0.003	7:32	0.002	0.020	-
7:33	0.003	0.003	7:33	0.003	0.019	-
7:34	0.004	0.003	7:34	0.003	0.014	-
7:35	0.003	0.003	7:35	0.002	0.013	-
7:36	0.004	0.003	7:36	0.000	0.003	-
7:37	0.003	0.003	7:37	0.006	0.003	-
7:38	0.004	0.003	7:38	0.004	0.003	-
7:39	0.000	0.003	7:39	0.004	0.003	-
7:40	0.006	0.003	7:40	0.003	0.003	-
7:41	0.001	0.003	7:41	0.002	0.003	-
7:42	0.002	0.003	7:42	0.005	0.003	-
7:43	0.003	0.003	7:43	0.001	0.003	-
7:44	0.001	0.003	7:44	0.001	0.003	-
7:45	0.002	0.003	7:45	0.001	0.003	-
7:46	0.003	0.003	7:46	0.004	0.003	-
7:47	0.005	0.003	7:47	0.001	0.003	-
7:48	0.004	0.003	7:48	0.001	0.003	-
7:49	0.002	0.003	7:49	0.000	0.002	-
7:50	0.001	0.003	7:50			
7:51	0.003	0.003	7:51			
7:52	0.004	0.003	7:52			

Monday, November 14, 2022						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =						0
Number of Comparable Data Points =						385
Start Time:						6:57
End Time:						14:03
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
6:57			6:57			
6:58			6:58	0.0		
6:59			6:59	0.0		
7:00	0.0		7:00	0.0		
7:01	0.0		7:01	0.0		
7:02	0.0		7:02	0.0		
7:03	0.0		7:03	0.0		
7:04	0.0		7:04	0.0		
7:05	0.0		7:05	0.0		
7:06	0.0		7:06	0.0		
7:07	0.0		7:07	0.0		
7:08	0.0		7:08	0.0		
7:09	0.0		7:09	0.0		
7:10	0.0		7:10	0.0		
7:11	0.0		7:11	0.0		
7:12	0.0		7:12	0.0	0.0	
7:13	0.0		7:13	0.0	0.0	
7:14	0.0	0.0	7:14	0.0	0.0	-
7:15	0.0	0.0	7:15	0.0	0.0	-
7:16	0.0	0.0	7:16	0.0	0.0	-
7:17	0.0	0.0	7:17	0.0	0.0	-
7:18	0.0	0.0	7:18	0.0	0.0	-
7:19	0.0	0.0	7:19	0.0	0.0	-
7:20	0.0	0.0	7:20	0.0	0.0	-
7:21	0.0	0.0	7:21	0.0	0.0	-
7:22	0.0	0.0	7:22	0.0	0.0	-
7:23	0.0	0.0	7:23	0.0	0.0	-
7:24	0.0	0.0	7:24	0.0	0.0	-
7:25	0.0	0.0	7:25	0.0	0.0	-
7:26	0.0	0.0	7:26	0.0	0.0	-
7:27	0.0	0.0	7:27	0.0	0.0	-
7:28	0.0	0.0	7:28	0.0	0.0	-
7:29	0.0	0.0	7:29	0.0	0.0	-
7:30	0.0	0.0	7:30	0.0	0.0	-
7:31	0.0	0.0	7:31	0.0	0.0	-
7:32	0.0	0.0	7:32	0.0	0.0	-
7:33	0.0	0.0	7:33	0.0	0.0	-
7:34	0.0	0.0	7:34	0.0	0.0	-
7:35	0.0	0.0	7:35	0.0	0.0	-
7:36	0.0	0.0	7:36	0.0	0.0	-
7:37	0.0	0.0	7:37	0.0	0.0	-
7:38	0.0	0.0	7:38	0.0	0.0	-
7:39	0.0	0.0	7:39	0.0	0.0	-
7:40	0.0	0.0	7:40	0.0	0.0	-
7:41	0.0	0.0	7:41	0.0	0.0	-
7:42	0.0	0.0	7:42	0.0	0.0	-
7:43	0.0	0.0	7:43	0.0	0.0	-
7:44	0.0	0.0	7:44	0.0	0.0	-
7:45	0.0	0.0	7:45	0.0	0.0	-
7:46	0.0	0.0	7:46	0.0	0.1	-
7:47	0.0	0.0	7:47	0.0	0.1	-
7:48	0.0	0.0	7:48	0.0	0.1	-
7:49	0.0	0.0	7:49	0.0	0.1	-
7:50	0.0	0.0	7:50	0.0	0.2	-
7:51	0.0	0.0	7:51	0.0	0.2	-
7:52	0.0	0.0	7:52	0.0	0.2	-
7:53	0.0	0.0	7:53	0.0	0.3	-
7:54	0.0	0.0	7:54	0.0	0.3	-
7:55	0.0	0.0	7:55	0.0	0.3	-
7:56	0.0	0.0	7:56	0.1	0.3	-
7:57	0.0	0.0	7:57	0.2	0.3	-
7:58	0.0	0.0	7:58	0.2	0.3	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:59	0.0	0.0	7:59	0.1	0.3	-
8:00	0.0	0.0	8:00	0.1	0.3	-
8:01	0.0	0.0	8:01	0.2	0.3	-
8:02	0.0	0.0	8:02	0.5	0.3	-
8:03	0.0	0.0	8:03	0.5	0.3	-
8:04	0.0	0.0	8:04	0.3	0.3	-
8:05	0.0	0.0	8:05	0.3	0.3	-
8:06	0.0	0.0	8:06	0.3	0.3	-
8:07	0.0	0.0	8:07	0.3	0.3	-
8:08	0.0	0.0	8:08	1.0	0.2	-
8:09	0.0	0.0	8:09	0.3	0.2	-
8:10	0.0	0.0	8:10	0.2	0.2	-
8:11	0.0	0.0	8:11	0.2	0.2	-
8:12	0.0	0.0	8:12	0.2	0.2	-
8:13	0.0	0.0	8:13	0.2	0.2	-
8:14	0.0	0.0	8:14	0.4	0.2	-
8:15	0.0	0.0	8:15	0.2	0.2	-
8:16	0.0	0.0	8:16	0.1	0.2	-
8:17	0.0	0.0	8:17	0.1	0.2	-
8:18	0.0	0.0	8:18	0.2	0.2	-
8:19	0.0	0.0	8:19	0.4	0.2	-
8:20	0.0	0.0	8:20	0.5	0.2	-
8:21	0.0	0.0	8:21	0.2	0.2	-
8:22	0.0	0.0	8:22	0.1	0.2	-
8:23	0.0	0.0	8:23	0.1	0.2	-
8:24	0.0	0.0	8:24	0.2	0.3	-
8:25	0.0	0.0	8:25	0.3	0.3	-
8:26	0.0	0.0	8:26	0.2	0.3	-
8:27	0.0	0.0	8:27	0.2	0.3	-
8:28	0.0	0.0	8:28	0.2	0.3	-
8:29	0.0	0.0	8:29	0.3	0.3	-
8:30	0.0	0.0	8:30	0.1	0.3	-
8:31	0.0	0.0	8:31	0.3	0.3	-
8:32	0.0	0.0	8:32	0.3	0.3	-
8:33	0.0	0.0	8:33	0.3	0.2	-
8:34	0.0	0.0	8:34	0.3	0.2	-
8:35	0.0	0.0	8:35	0.3	0.2	-
8:36	0.0	0.0	8:36	0.2	0.2	-
8:37	0.0	0.0	8:37	0.2	0.2	-
8:38	0.0	0.0	8:38	0.3	0.2	-
8:39	0.0	0.0	8:39	0.3	0.2	-
8:40	0.0	0.0	8:40	0.3	0.2	-
8:41	0.0	0.0	8:41	0.3	0.2	-
8:42	0.0	0.0	8:42	0.2	0.2	-
8:43	0.0	0.0	8:43	0.2	0.2	-
8:44	0.0	0.0	8:44	0.2	0.2	-
8:45	0.0	0.0	8:45	0.3	0.2	-
8:46	0.0	0.0	8:46	0.2	0.2	-
8:47	0.0	0.0	8:47	0.2	0.2	-
8:48	0.0	0.0	8:48	0.2	0.2	-
8:49	0.0	0.0	8:49	0.2	0.2	-
8:50	0.0	0.0	8:50	0.2	0.2	-
8:51	0.0	0.0	8:51	0.2	0.2	-
8:52	0.0	0.0	8:52	0.2	0.2	-
8:53	0.0	0.0	8:53	0.2	0.2	-
8:54	0.0	0.0	8:54	0.1	0.2	-
8:55	0.0	0.0	8:55	0.2	0.2	-
8:56	0.0	0.0	8:56	0.2	0.2	-
8:57	0.0	0.0	8:57	0.2	0.2	-
8:58	0.0	0.0	8:58	0.2	0.2	-
8:59	0.0	0.0	8:59	0.2	0.2	-
9:00	0.0	0.0	9:00	0.1	0.2	-
9:01	0.0	0.0	9:01	0.2	0.2	-
9:02	0.0	0.0	9:02	0.2	0.2	-
9:03	0.0	0.0	9:03	0.2	0.2	-
9:04	0.0	0.0	9:04	0.2	0.2	-
9:05	0.0	0.0	9:05	0.2	0.2	-
9:06	0.0	0.0	9:06	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:07	0.0	0.0	9:07	0.2	0.2	-
9:08	0.0	0.0	9:08	0.2	0.2	-
9:09	0.0	0.0	9:09	0.2	0.2	-
9:10	0.0	0.0	9:10	0.2	0.2	-
9:11	0.0	0.0	9:11	0.2	0.2	-
9:12	0.1	0.0	9:12	0.1	0.2	-
9:13	0.1	0.0	9:13	0.2	0.2	-
9:14	0.0	0.0	9:14	0.2	0.2	-
9:15	0.1	0.0	9:15	0.2	0.2	-
9:16	0.1	0.0	9:16	0.1	0.2	-
9:17	0.1	0.0	9:17	0.2	0.2	-
9:18	0.1	0.0	9:18	0.2	0.2	-
9:19	0.1	0.0	9:19	0.2	0.2	-
9:20	0.1	0.1	9:20	0.1	0.2	-
9:21	0.1	0.1	9:21	0.2	0.2	-
9:22	0.1	0.1	9:22	0.2	0.1	-
9:23	0.1	0.1	9:23	0.2	0.1	-
9:24	0.1	0.1	9:24	0.1	0.1	-
9:25	0.1	0.1	9:25	0.1	0.1	-
9:26	0.1	0.1	9:26	0.2	0.1	-
9:27	0.1	0.1	9:27	0.2	0.1	-
9:28	0.1	0.1	9:28	0.2	0.1	-
9:29	0.1	0.1	9:29	0.2	0.1	-
9:30	0.1	0.1	9:30	0.2	0.1	-
9:31	0.1	0.1	9:31	0.1	0.1	-
9:32	0.1	0.1	9:32	0.1	0.1	-
9:33	0.1	0.1	9:33	0.1	0.1	-
9:34	0.1	0.1	9:34	0.1	0.1	-
9:35	0.1	0.1	9:35	0.1	0.1	-
9:36	0.1	0.1	9:36	0.2	0.1	-
9:37	0.1	0.1	9:37	0.1	0.1	-
9:38	0.1	0.1	9:38	0.1	0.1	-
9:39	0.1	0.1	9:39	0.1	0.1	-
9:40	0.1	0.1	9:40	0.1	0.1	-
9:41	0.1	0.1	9:41	0.1	0.1	-
9:42	0.1	0.1	9:42	0.1	0.1	-
9:43	0.1	0.1	9:43	0.1	0.1	-
9:44	0.1	0.1	9:44	0.1	0.1	-
9:45	0.1	0.1	9:45	0.1	0.1	-
9:46	0.1	0.1	9:46	0.1	0.1	-
9:47	0.1	0.1	9:47	0.1	0.1	-
9:48	0.1	0.1	9:48	0.1	0.1	-
9:49	0.1	0.1	9:49	0.1	0.1	-
9:50	0.1	0.1	9:50	0.1	0.1	-
9:51	0.1	0.1	9:51	0.1	0.1	-
9:52	0.1	0.1	9:52	0.1	0.1	-
9:53	0.1	0.1	9:53	0.1	0.1	-
9:54	0.1	0.1	9:54	0.1	0.1	-
9:55	0.1	0.1	9:55	0.1	0.1	-
9:56	0.1	0.1	9:56	0.1	0.1	-
9:57	0.1	0.1	9:57	0.1	0.1	-
9:58	0.1	0.1	9:58	0.1	0.1	-
9:59	0.1	0.1	9:59	0.1	0.1	-
10:00	0.1	0.1	10:00	0.1	0.1	-
10:01	0.1	0.1	10:01	0.1	0.1	-
10:02	0.1	0.1	10:02	0.1	0.1	-
10:03	0.1	0.1	10:03	0.1	0.1	-
10:04	0.1	0.1	10:04	0.1	0.1	-
10:05	0.1	0.1	10:05	0.1	0.1	-
10:06	0.1	0.1	10:06	0.1	0.1	-
10:07	0.1	0.1	10:07	0.1	0.1	-
10:08	0.1	0.1	10:08	0.1	0.1	-
10:09	0.1	0.1	10:09	0.1	0.1	-
10:10	0.1	0.1	10:10	0.1	0.1	-
10:11	0.1	0.1	10:11	0.1	0.1	-
10:12	0.2	0.1	10:12	0.1	0.1	-
10:13	0.2	0.1	10:13	0.1	0.1	-
10:14	0.2	0.1	10:14	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:15	0.2	0.1	10:15	0.1	0.1	-
10:16	0.2	0.1	10:16	0.1	0.1	-
10:17	0.2	0.1	10:17	0.1	0.2	-
10:18	0.2	0.1	10:18	0.1	0.2	-
10:19	0.2	0.2	10:19	0.1	0.2	-
10:20	0.2	0.2	10:20	0.1	0.2	-
10:21	0.2	0.2	10:21	0.1	0.2	-
10:22	0.2	0.2	10:22	0.1	0.2	-
10:23	0.2	0.2	10:23	0.1	0.2	-
10:24	0.2	0.2	10:24	0.1	0.2	-
10:25	0.2	0.2	10:25	0.1	0.2	-
10:26	0.2	0.2	10:26	0.2	0.2	-
10:27	0.2	0.2	10:27	0.2	0.2	-
10:28	0.2	0.2	10:28	0.2	0.2	-
10:29	0.2	0.2	10:29	0.3	0.2	-
10:30	0.2	0.2	10:30	0.2	0.2	-
10:31	0.2	0.2	10:31	0.2	0.2	-
10:32	0.2	0.2	10:32	0.2	0.2	-
10:33	0.2	0.2	10:33	0.2	0.2	-
10:34	0.2	0.2	10:34	0.2	0.2	-
10:35	0.2	0.2	10:35	0.2	0.2	-
10:36	0.2	0.2	10:36	0.2	0.3	-
10:37	0.2	0.2	10:37	0.3	0.3	-
10:38	0.2	0.2	10:38	0.2	0.3	-
10:39	0.2	0.2	10:39	0.2	0.3	-
10:40	0.2	0.2	10:40	0.2	0.3	-
10:41	0.2	0.2	10:41	0.3	0.2	-
10:42	0.2	0.2	10:42	0.2	0.2	-
10:43	0.2	0.2	10:43	0.3	0.2	-
10:44	0.2	0.2	10:44	0.3	0.2	-
10:45	0.2	0.2	10:45	0.3	0.2	-
10:46	0.2	0.2	10:46	0.2	0.2	-
10:47	0.2	0.2	10:47	0.2	0.2	-
10:48	0.2	0.2	10:48	0.2	0.2	-
10:49	0.2	0.2	10:49	0.2	0.2	-
10:50	0.2	0.2	10:50	0.3	0.2	-
10:51	0.2	0.2	10:51	0.4	0.1	-
10:52	0.2	0.2	10:52	0.3	0.2	-
10:53	0.2	0.2	10:53	0.2	0.2	-
10:54	0.2	0.2	10:54	0.2	0.2	-
10:55	0.2	0.2	10:55	0.3	0.2	-
10:56	0.2	0.2	10:56	0.1	0.2	-
10:57	0.2	0.2	10:57	0.1	0.2	-
10:58	0.2	0.2	10:58	0.1	0.2	-
10:59	0.2	0.2	10:59	0.1	0.2	-
11:00	0.2	0.2	11:00	0.1	0.2	-
11:01	0.2	0.2	11:01	0.1	0.2	-
11:02	0.2	0.2	11:02	0.1	0.2	-
11:03	0.2	0.2	11:03	0.1	0.2	-
11:04	0.2	0.2	11:04	0.1	0.2	-
11:05	0.2	0.2	11:05	0.1	0.2	-
11:06	0.2	0.2	11:06	0.1	0.2	-
11:07	0.2	0.2	11:07	0.6	0.2	-
11:08	0.2	0.2	11:08	0.3	0.2	-
11:09	0.2	0.2	11:09	0.2	0.2	-
11:10	0.2	0.2	11:10	0.2	0.2	-
11:11	0.2	0.2	11:11	0.2	0.2	-
11:12	0.2	0.2	11:12	0.2	0.2	-
11:13	0.2	0.2	11:13	0.2	0.2	-
11:14	0.2	0.2	11:14	0.2	0.2	-
11:15	0.2	0.2	11:15	0.2	0.2	-
11:16	0.2	0.2	11:16	0.2	0.2	-
11:17	0.2	0.2	11:17	0.2	0.2	-
11:18	0.2	0.2	11:18	0.2	0.2	-
11:19	0.2	0.2	11:19	0.1	0.2	-
11:20	0.2	0.2	11:20	0.2	0.2	-
11:21	0.2	0.2	11:21	0.2	0.2	-
11:22	0.2	0.2	11:22	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:23	0.2	0.2	11:23	0.2	0.2	-
11:24	0.2	0.2	11:24	0.2	0.2	-
11:25	0.2	0.2	11:25	0.2	0.2	-
11:26	0.2	0.2	11:26	0.2	0.2	-
11:27	0.2	0.2	11:27	0.1	0.2	-
11:28	0.2	0.2	11:28	0.2	0.2	-
11:29	0.2	0.2	11:29	0.2	0.2	-
11:30	0.2	0.2	11:30	0.2	0.2	-
11:31	0.2	0.2	11:31	0.3	0.2	-
11:32	0.2	0.2	11:32	0.2	0.2	-
11:33	0.2	0.2	11:33	0.2	0.2	-
11:34	0.2	0.2	11:34	0.2	0.2	-
11:35	0.2	0.2	11:35	0.1	0.2	-
11:36	0.2	0.2	11:36	0.1	0.2	-
11:37	0.2	0.2	11:37	0.2	0.2	-
11:38	0.2	0.2	11:38	0.1	0.2	-
11:39	0.2	0.2	11:39	0.1	0.2	-
11:40	0.2	0.2	11:40	0.2	0.2	-
11:41	0.2	0.2	11:41	0.2	0.2	-
11:42	0.2	0.2	11:42	0.2	0.2	-
11:43	0.2	0.2	11:43	0.2	0.2	-
11:44	0.2	0.2	11:44	0.2	0.2	-
11:45	0.2	0.2	11:45	0.2	0.2	-
11:46	0.2	0.2	11:46	0.2	0.2	-
11:47	0.2	0.2	11:47	0.2	0.2	-
11:48	0.2	0.2	11:48	0.2	0.2	-
11:49	0.2	0.2	11:49	0.2	0.2	-
11:50	0.2	0.2	11:50	0.2	0.2	-
11:51	0.2	0.2	11:51	0.2	0.2	-
11:52	0.2	0.2	11:52	0.2	0.2	-
11:53	0.2	0.2	11:53	0.2	0.2	-
11:54	0.2	0.2	11:54	0.2	0.2	-
11:55	0.2	0.2	11:55	0.2	0.2	-
11:56	0.2	0.2	11:56	0.2	0.2	-
11:57	0.2	0.2	11:57	0.2	0.2	-
11:58	0.2	0.2	11:58	0.2	0.2	-
11:59	0.2	0.2	11:59	0.2	0.2	-
12:00	0.2	0.2	12:00	0.2	0.2	-
12:01	0.2	0.2	12:01	0.2	0.2	-
12:02	0.2	0.2	12:02	0.2	0.2	-
12:03	0.2	0.2	12:03	0.2	0.2	-
12:04	0.2	0.2	12:04	0.2	0.2	-
12:05	0.2	0.2	12:05	0.2	0.2	-
12:06	0.2	0.2	12:06	0.2	0.2	-
12:07	0.2	0.2	12:07	0.2	0.2	-
12:08	0.2	0.2	12:08	0.2	0.2	-
12:09	0.2	0.2	12:09	0.2	0.2	-
12:10	0.2	0.2	12:10	0.2	0.2	-
12:11	0.2	0.2	12:11	0.2	0.2	-
12:12	0.2	0.2	12:12	0.2	0.2	-
12:13	0.2	0.2	12:13	0.2	0.2	-
12:14	0.2	0.2	12:14	0.2	0.2	-
12:15	0.2	0.2	12:15	0.2	0.2	-
12:16	0.2	0.2	12:16	0.2	0.2	-
12:17	0.2	0.2	12:17	0.2	0.2	-
12:18	0.2	0.2	12:18	0.2	0.2	-
12:19	0.2	0.2	12:19	0.2	0.2	-
12:20	0.2	0.2	12:20	0.2	0.2	-
12:21	0.2	0.2	12:21	0.2	0.2	-
12:22	0.2	0.2	12:22	0.1	0.2	-
12:23	0.2	0.2	12:23	0.2	0.2	-
12:24	0.2	0.2	12:24	0.2	0.2	-
12:25	0.2	0.2	12:25	0.2	0.2	-
12:26	0.2	0.2	12:26	0.2	0.2	-
12:27	0.2	0.2	12:27	0.2	0.2	-
12:28	0.2	0.2	12:28	0.2	0.2	-
12:29	0.2	0.2	12:29	0.2	0.2	-
12:30	0.2	0.2	12:30	0.2	0.2	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:31	0.2	0.2	12:31	0.2	0.2	-
12:32	0.2	0.2	12:32	0.2	0.2	-
12:33	0.2	0.2	12:33	0.2	0.2	-
12:34	0.2	0.2	12:34	0.2	0.2	-
12:35	0.2	0.2	12:35	0.2	0.2	-
12:36	0.2	0.2	12:36	0.2	0.2	-
12:37	0.2	0.2	12:37	0.2	0.2	-
12:38	0.2	0.2	12:38	0.2	0.2	-
12:39	0.2	0.2	12:39	0.1	0.2	-
12:40	0.2	0.2	12:40	0.2	0.2	-
12:41	0.2	0.2	12:41	0.2	0.2	-
12:42	0.2	0.2	12:42	0.2	0.2	-
12:43	0.2	0.2	12:43	0.2	0.2	-
12:44	0.2	0.2	12:44	0.2	0.2	-
12:45	0.2	0.2	12:45	0.2	0.2	-
12:46	0.2	0.2	12:46	0.2	0.2	-
12:47	0.2	0.2	12:47	0.2	0.1	-
12:48	0.2	0.2	12:48	0.2	0.1	-
12:49	0.2	0.2	12:49	0.1	0.1	-
12:50	0.2	0.2	12:50	0.2	0.1	-
12:51	0.2	0.2	12:51	0.2	0.1	-
12:52	0.2	0.2	12:52	0.2	0.1	-
12:53	0.2	0.2	12:53	0.2	0.1	-
12:54	0.2	0.2	12:54	0.2	0.1	-
12:55	0.2	0.2	12:55	0.2	0.1	-
12:56	0.2	0.2	12:56	0.1	0.1	-
12:57	0.2	0.2	12:57	0.1	0.1	-
12:58	0.2	0.2	12:58	0.1	0.1	-
12:59	0.2	0.2	12:59	0.1	0.1	-
13:00	0.2	0.2	13:00	0.1	0.1	-
13:01	0.2	0.2	13:01	0.1	0.1	-
13:02	0.2	0.2	13:02	0.1	0.1	-
13:03	0.2	0.2	13:03	0.1	0.1	-
13:04	0.2	0.2	13:04	0.1	0.1	-
13:05	0.2	0.2	13:05	0.1	0.1	-
13:06	0.2	0.2	13:06	0.1	0.1	-
13:07	0.2	0.2	13:07	0.1	0.1	-
13:08	0.2	0.2	13:08	0.1	0.1	-
13:09	0.2	0.2	13:09	0.1	0.1	-
13:10	0.2	0.2	13:10	0.1	0.1	-
13:11	0.2	0.2	13:11	0.1	0.1	-
13:12	0.2	0.2	13:12	0.1	0.1	-
13:13	0.2	0.2	13:13	0.1	0.1	-
13:14	0.2	0.2	13:14	0.1	0.1	-
13:15	0.2	0.2	13:15	0.1	0.1	-
13:16	0.2	0.2	13:16	0.1	0.1	-
13:17	0.2	0.2	13:17	0.1	0.1	-
13:18	0.2	0.2	13:18	0.1	0.1	-
13:19	0.2	0.2	13:19	0.1	0.1	-
13:20	0.2	0.2	13:20	0.1	0.1	-
13:21	0.2	0.2	13:21	0.1	0.1	-
13:22	0.2	0.2	13:22	0.1	0.1	-
13:23	0.2	0.2	13:23	0.1	0.1	-
13:24	0.2	0.2	13:24	0.1	0.1	-
13:25	0.2	0.2	13:25	0.1	0.1	-
13:26	0.2	0.2	13:26	0.1	0.1	-
13:27	0.2	0.2	13:27	0.1	0.1	-
13:28	0.2	0.2	13:28	0.1	0.1	-
13:29	0.2	0.2	13:29	0.1	0.1	-
13:30	0.2	0.2	13:30	0.1	0.1	-
13:31	0.2	0.2	13:31	0.1	0.1	-
13:32	0.2	0.2	13:32	0.1	0.1	-
13:33	0.2	0.2	13:33	0.1	0.1	-
13:34	0.2	0.2	13:34	0.1	0.1	-
13:35	0.2	0.2	13:35	0.1	0.1	-
13:36	0.2	0.2	13:36	0.1	0.1	-
13:37	0.2	0.2	13:37	0.1	0.1	-
13:38	0.2	0.2	13:38	0.1	0.1	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
13:39	0.2	0.2	13:39	0.1		
13:40	0.2	0.2	13:40			
13:41	0.2	0.2	13:41			
13:42	0.2	0.2	13:42			
13:43	0.2	0.2	13:43			
13:44	0.2	0.2	13:44			
13:45	0.2	0.2	13:45			
13:46	0.2	0.2	13:46			

Date: 11/15/2022

Start: 6:57

End: 12:55

Observer: Tom Herold

UPWIND -

DOWNWIND -

UW

DW

Particulate Monitoring		
	UW	DW
Daily Average	0.012	0.051
Minimum 15min Average	0.008	0.007
Maximum 15min Average	0.030	0.314
Exceedance (15min >.15)	NA	16
Minimum 1min Reading	0.007	0.006
Maximum 1min Reading	0.067	1.020

NA - Not applicable, upwind unit used for background concentrations

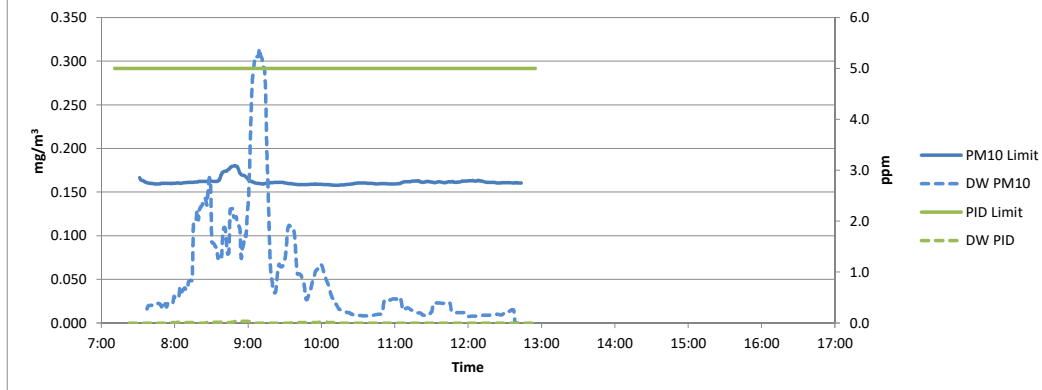
All reported units are mg/m³ (milligrams per cubic meter) unless specified otherwise

Organic Vapor Monitoring		
	UW	DW
Daily Average	0.0	0.0
Minimum 15min Average	0.0	0.0
Maximum 15min Average	0.0	0.0
Exceedance (15min >5)	NA	0
Minimum 1min Reading	0.0	0.0
Maximum 1min Reading	0.0	0.1

NA - Not applicable, upwind unit used for background concentrations

All reported units are ppm (parts per million) unless specified otherwise

Air Monitoring Data Summary



Tuesday, November 15, 2022						
Number of Instances Where Downwind Particulates Exceeds Upwind Particulate + 150 =						16
Number of Comparable Data Points =						301
Start Time:						7:17
End Time:						12:43
PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
7:17	0.047		7:17			
7:18	0.016		7:18			
7:19	0.018		7:19			
7:20	0.018		7:20			
7:21	0.026		7:21			
7:22	0.015		7:22			
7:23	0.013		7:23	0.012		
7:24	0.015		7:24	0.009		
7:25	0.011		7:25	0.009		
7:26	0.011		7:26	0.009		
7:27	0.015		7:27	0.010		
7:28	0.013		7:28	0.009		
7:29	0.012		7:29	0.012		
7:30	0.009		7:30	0.014		
7:31	0.008	0.016	7:31	0.006		
7:32	0.008	0.014	7:32	0.009		
7:33	0.009	0.013	7:33	0.028		
7:34	0.010	0.013	7:34	0.046		
7:35	0.008	0.012	7:35	0.007		
7:36	0.009	0.011	7:36	0.024		
7:37	0.009	0.011	7:37	0.039	0.016	-
7:38	0.009	0.010	7:38	0.067	0.020	-
7:39	0.009	0.010	7:39	0.010	0.020	-
7:40	0.011	0.010	7:40	0.014	0.020	-
7:41	0.012	0.010	7:41	0.008	0.020	-
7:42	0.009	0.010	7:42	0.009	0.020	-
7:43	0.009	0.009	7:43	0.008	0.020	-
7:44	0.009	0.009	7:44	0.010	0.020	-
7:45	0.009	0.009	7:45	0.030	0.021	-
7:46	0.009	0.009	7:46	0.028	0.022	-
7:47	0.008	0.009	7:47	0.008	0.022	-
7:48	0.014	0.010	7:48	0.008	0.021	-
7:49	0.015	0.010	7:49	0.010	0.019	-
7:50	0.011	0.010	7:50	0.093	0.024	-
7:51	0.009	0.010	7:51	0.011	0.024	-
7:52	0.008	0.010	7:52	0.010	0.022	-
7:53	0.010	0.010	7:53	0.019	0.018	-
7:54	0.010	0.010	7:54	0.069	0.022	-
7:55	0.009	0.010	7:55	0.009	0.022	-
7:56	0.009	0.010	7:56	0.007	0.022	-
7:57	0.009	0.010	7:57	0.007	0.022	-
7:58	0.010	0.010	7:58	0.008	0.022	-
7:59	0.011	0.010	7:59	0.137	0.030	-
8:00	0.011	0.010	8:00	0.009	0.029	-
8:01	0.012	0.010	8:01	0.010	0.028	-
8:02	0.011	0.011	8:02	0.029	0.029	-
8:03	0.011	0.010	8:03	0.016	0.030	-
8:04	0.012	0.010	8:04	0.188	0.041	-
8:05	0.011	0.010	8:05	0.011	0.036	-
8:06	0.012	0.010	8:06	0.022	0.037	-
8:07	0.013	0.011	8:07	0.041	0.039	-
8:08	0.012	0.011	8:08	0.043	0.040	-
8:09	0.011	0.011	8:09	0.029	0.038	-
8:10	0.011	0.011	8:10	0.037	0.040	-
8:11	0.010	0.011	8:11	0.122	0.047	-
8:12	0.010	0.011	8:12	0.026	0.049	-
8:13	0.010	0.011	8:13	0.014	0.049	-
8:14	0.011	0.011	8:14	0.135	0.049	-
8:15	0.013	0.011	8:15	1.010	0.116	-
8:16	0.013	0.011	8:16	0.023	0.116	-
8:17	0.013	0.012	8:17	0.033	0.117	-
8:18	0.013	0.012	8:18	0.200	0.129	-
8:19	0.014	0.012	8:19	0.028	0.118	-
8:20	0.016	0.012	8:20	0.194	0.130	-
8:21	0.015	0.012	8:21	0.059	0.133	-
8:22	0.012	0.012	8:22	0.068	0.135	-
8:23	0.011	0.012	8:23	0.110	0.139	-
8:24	0.012	0.012	8:24	0.092	0.143	-
8:25	0.011	0.012	8:25	0.013	0.142	-
8:26	0.011	0.012	8:26	0.027	0.135	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
8:27	0.013	0.013	8:27	0.283	0.153	-
8:28	0.011	0.013	8:28	0.226	0.167	X
8:29	0.011	0.013	8:29	0.018	0.159	-
8:30	0.011	0.012	8:30	0.015	0.093	-
8:31	0.011	0.012	8:31	0.010	0.092	-
8:32	0.011	0.012	8:32	0.010	0.090	-
8:33	0.012	0.012	8:33	0.156	0.087	-
8:34	0.015	0.012	8:34	0.015	0.086	-
8:35	0.023	0.013	8:35	0.012	0.074	-
8:36	0.031	0.014	8:36	0.146	0.080	-
8:37	0.067	0.017	8:37	0.040	0.078	-
8:38	0.065	0.021	8:38	0.079	0.076	-
8:39	0.039	0.023	8:39	0.513	0.104	-
8:40	0.022	0.024	8:40	0.095	0.110	-
8:41	0.016	0.024	8:41	0.010	0.109	-
8:42	0.017	0.024	8:42	0.013	0.091	-
8:43	0.027	0.025	8:43	0.052	0.079	-
8:44	0.028	0.026	8:44	0.046	0.081	-
8:45	0.036	0.028	8:45	0.758	0.130	-
8:46	0.029	0.029	8:46	0.014	0.131	-
8:47	0.018	0.030	8:47	0.015	0.131	-
8:48	0.016	0.030	8:48	0.012	0.121	-
8:49	0.019	0.030	8:49	0.013	0.121	-
8:50	0.017	0.030	8:50	0.018	0.122	-
8:51	0.016	0.029	8:51	0.012	0.113	-
8:52	0.011	0.025	8:52	0.023	0.112	-
8:53	0.013	0.022	8:53	0.022	0.108	-
8:54	0.014	0.020	8:54	0.018	0.075	-
8:55	0.013	0.019	8:55	0.252	0.085	-
8:56	0.012	0.019	8:56	0.089	0.090	-
8:57	0.009	0.019	8:57	0.166	0.101	-
8:58	0.009	0.017	8:58	0.034	0.099	-
8:59	0.010	0.016	8:59	0.430	0.125	-
9:00	0.009	0.014	9:00	1.020	0.143	-
9:01	0.009	0.013	9:01	0.617	0.183	X
9:02	0.009	0.012	9:02	0.791	0.234	X
9:03	0.009	0.012	9:03	0.617	0.275	X
9:04	0.009	0.011	9:04	0.210	0.288	X
9:05	0.009	0.011	9:05	0.205	0.300	X
9:06	0.009	0.010	9:06	0.096	0.306	X
9:07	0.008	0.010	9:07	0.011	0.305	X
9:08	0.011	0.010	9:08	0.029	0.306	X
9:09	0.011	0.010	9:09	0.148	0.314	X
9:10	0.010	0.010	9:10	0.128	0.306	X
9:11	0.010	0.009	9:11	0.047	0.303	X
9:12	0.010	0.009	9:12	0.018	0.293	X
9:13	0.013	0.010	9:13	0.017	0.292	X
9:14	0.014	0.010	9:14	0.007	0.264	X
9:15	0.012	0.010	9:15	0.007	0.197	X
9:16	0.013	0.010	9:16	0.007	0.156	-
9:17	0.011	0.011	9:17	0.010	0.104	-
9:18	0.010	0.011	9:18	0.007	0.063	-
9:19	0.011	0.011	9:19	0.020	0.050	-
9:20	0.010	0.011	9:20	0.044	0.040	-
9:21	0.011	0.011	9:21	0.027	0.035	-
9:22	0.011	0.011	9:22	0.008	0.035	-
9:23	0.011	0.011	9:23	0.182	0.045	-
9:24	0.010	0.011	9:24	0.382	0.061	-
9:25	0.011	0.011	9:25	0.227	0.067	-
9:26	0.011	0.011	9:26	0.010	0.065	-
9:27	0.010	0.011	9:27	0.011	0.064	-
9:28	0.010	0.011	9:28	0.034	0.066	-
9:29	0.009	0.011	9:29	0.067	0.070	-
9:30	0.009	0.011	9:30	0.087	0.075	-
9:31	0.008	0.010	9:31	0.214	0.089	-
9:32	0.008	0.010	9:32	0.272	0.106	-
9:33	0.008	0.010	9:33	0.091	0.112	-
9:34	0.008	0.010	9:34	0.008	0.111	-
9:35	0.008	0.010	9:35	0.006	0.108	-
9:36	0.008	0.009	9:36	0.007	0.107	-
9:37	0.008	0.009	9:37	0.007	0.107	-
9:38	0.008	0.009	9:38	0.013	0.096	-
9:39	0.009	0.009	9:39	0.011	0.071	-
9:40	0.009	0.009	9:40	0.007	0.056	-
9:41	0.009	0.009	9:41	0.008	0.056	-
9:42	0.009	0.009	9:42	0.010	0.056	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
9:43	0.009	0.008	9:43	0.010	0.055	-
9:44	0.009	0.008	9:44	0.011	0.051	-
9:45	0.009	0.008	9:45	0.044	0.048	-
9:46	0.009	0.009	9:46	0.074	0.039	-
9:47	0.009	0.009	9:47	0.100	0.027	-
9:48	0.009	0.009	9:48	0.088	0.027	-
9:49	0.009	0.009	9:49	0.070	0.031	-
9:50	0.009	0.009	9:50	0.073	0.036	-
9:51	0.009	0.009	9:51	0.067	0.040	-
9:52	0.010	0.009	9:52	0.105	0.046	-
9:53	0.009	0.009	9:53	0.077	0.050	-
9:54	0.010	0.009	9:54	0.081	0.055	-
9:55	0.009	0.009	9:55	0.077	0.060	-
9:56	0.008	0.009	9:56	0.029	0.061	-
9:57	0.008	0.009	9:57	0.038	0.063	-
9:58	0.008	0.009	9:58	0.047	0.065	-
9:59	0.008	0.009	9:59	0.044	0.068	-
10:00	0.008	0.009	10:00	0.016	0.066	-
10:01	0.008	0.009	10:01	0.010	0.061	-
10:02	0.008	0.009	10:02	0.013	0.056	-
10:03	0.008	0.009	10:03	0.027	0.052	-
10:04	0.008	0.009	10:04	0.020	0.048	-
10:05	0.008	0.008	10:05	0.019	0.045	-
10:06	0.008	0.008	10:06	0.017	0.041	-
10:07	0.008	0.008	10:07	0.009	0.035	-
10:08	0.007	0.008	10:08	0.015	0.031	-
10:09	0.007	0.008	10:09	0.035	0.028	-
10:10	0.008	0.008	10:10	0.011	0.023	-
10:11	0.008	0.008	10:11	0.021	0.023	-
10:12	0.008	0.008	10:12	0.008	0.021	-
10:13	0.008	0.008	10:13	0.008	0.018	-
10:14	0.009	0.008	10:14	0.009	0.016	-
10:15	0.010	0.008	10:15	0.011	0.016	-
10:16	0.009	0.008	10:16	0.007	0.015	-
10:17	0.009	0.008	10:17	0.010	0.015	-
10:18	0.010	0.008	10:18	0.011	0.014	-
10:19	0.011	0.009	10:19	0.007	0.013	-
10:20	0.010	0.009	10:20	0.010	0.013	-
10:21	0.010	0.009	10:21	0.007	0.012	-
10:22	0.010	0.009	10:22	0.009	0.012	-
10:23	0.009	0.009	10:23	0.009	0.012	-
10:24	0.010	0.009	10:24	0.013	0.010	-
10:25	0.011	0.009	10:25	0.010	0.010	-
10:26	0.012	0.010	10:26	0.007	0.009	-
10:27	0.012	0.010	10:27	0.009	0.009	-
10:28	0.011	0.010	10:28	0.008	0.009	-
10:29	0.011	0.010	10:29	0.008	0.009	-
10:30	0.010	0.010	10:30	0.007	0.009	-
10:31	0.010	0.010	10:31	0.007	0.009	-
10:32	0.009	0.010	10:32	0.007	0.009	-
10:33	0.010	0.010	10:33	0.007	0.008	-
10:34	0.010	0.010	10:34	0.007	0.008	-
10:35	0.009	0.010	10:35	0.007	0.008	-
10:36	0.010	0.010	10:36	0.009	0.008	-
10:37	0.009	0.010	10:37	0.008	0.008	-
10:38	0.009	0.010	10:38	0.009	0.008	-
10:39	0.010	0.010	10:39	0.009	0.008	-
10:40	0.010	0.010	10:40	0.012	0.008	-
10:41	0.009	0.010	10:41	0.015	0.009	-
10:42	0.009	0.010	10:42	0.013	0.009	-
10:43	0.009	0.010	10:43	0.013	0.009	-
10:44	0.009	0.009	10:44	0.014	0.010	-
10:45	0.010	0.009	10:45	0.010	0.010	-
10:46	0.010	0.009	10:46	0.010	0.010	-
10:47	0.010	0.010	10:47	0.008	0.010	-
10:48	0.010	0.010	10:48	0.008	0.010	-
10:49	0.010	0.010	10:49	0.011	0.010	-
10:50	0.010	0.010	10:50	0.095	0.016	-
10:51	0.009	0.010	10:51	0.155	0.026	-
10:52	0.009	0.010	10:52	0.017	0.027	-
10:53	0.009	0.010	10:53	0.016	0.027	-
10:54	0.008	0.009	10:54	0.007	0.027	-
10:55	0.009	0.009	10:55	0.007	0.027	-
10:56	0.009	0.009	10:56	0.012	0.026	-
10:57	0.009	0.009	10:57	0.022	0.027	-
10:58	0.009	0.009	10:58	0.023	0.028	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
10:59	0.009	0.009	10:59	0.014	0.028	-
11:00	0.009	0.009	11:00	0.009	0.028	-
11:01	0.013	0.009	11:01	0.007	0.027	-
11:02	0.012	0.010	11:02	0.026	0.029	-
11:03	0.013	0.010	11:03	0.024	0.030	-
11:04	0.010	0.010	11:04	0.014	0.030	-
11:05	0.025	0.011	11:05	0.013	0.024	-
11:06	0.015	0.011	11:06	0.015	0.015	-
11:07	0.016	0.012	11:07	0.035	0.016	-
11:08	0.011	0.012	11:08	0.014	0.016	-
11:09	0.009	0.012	11:09	0.020	0.017	-
11:10	0.009	0.012	11:10	0.012	0.017	-
11:11	0.008	0.012	11:11	0.008	0.017	-
11:12	0.009	0.012	11:12	0.008	0.016	-
11:13	0.015	0.012	11:13	0.006	0.015	-
11:14	0.015	0.013	11:14	0.007	0.015	-
11:15	0.011	0.013	11:15	0.007	0.014	-
11:16	0.011	0.013	11:16	0.007	0.014	-
11:17	0.012	0.013	11:17	0.008	0.013	-
11:18	0.018	0.013	11:18	0.007	0.012	-
11:19	0.011	0.013	11:19	0.008	0.012	-
11:20	0.010	0.012	11:20	0.010	0.011	-
11:21	0.010	0.012	11:21	0.013	0.011	-
11:22	0.010	0.011	11:22	0.008	0.010	-
11:23	0.012	0.011	11:23	0.010	0.009	-
11:24	0.013	0.012	11:24	0.009	0.009	-
11:25	0.012	0.012	11:25	0.007	0.008	-
11:26	0.013	0.012	11:26	0.016	0.009	-
11:27	0.010	0.012	11:27	0.010	0.009	-
11:28	0.010	0.012	11:28	0.018	0.010	-
11:29	0.010	0.012	11:29	0.040	0.012	-
11:30	0.009	0.011	11:30	0.027	0.013	-
11:31	0.008	0.011	11:31	0.139	0.022	-
11:32	0.008	0.011	11:32	0.024	0.023	-
11:33	0.018	0.011	11:33	0.006	0.023	-
11:34	0.017	0.011	11:34	0.010	0.023	-
11:35	0.016	0.012	11:35	0.008	0.023	-
11:36	0.010	0.012	11:36	0.011	0.023	-
11:37	0.008	0.012	11:37	0.008	0.023	-
11:38	0.008	0.011	11:38	0.008	0.023	-
11:39	0.009	0.011	11:39	0.007	0.023	-
11:40	0.010	0.011	11:40	0.007	0.023	-
11:41	0.012	0.011	11:41	0.008	0.022	-
11:42	0.015	0.011	11:42	0.011	0.022	-
11:43	0.017	0.012	11:43	0.037	0.023	-
11:44	0.011	0.012	11:44	0.041	0.023	-
11:45	0.008	0.012	11:45	0.007	0.022	-
11:46	0.011	0.012	11:46	0.007	0.013	-
11:47	0.011	0.012	11:47	0.008	0.012	-
11:48	0.008	0.011	11:48	0.006	0.012	-
11:49	0.015	0.011	11:49	0.006	0.012	-
11:50	0.014	0.011	11:50	0.008	0.012	-
11:51	0.014	0.011	11:51	0.009	0.012	-
11:52	0.011	0.012	11:52	0.010	0.012	-
11:53	0.009	0.012	11:53	0.007	0.012	-
11:54	0.015	0.012	11:54	0.006	0.012	-
11:55	0.019	0.013	11:55	0.007	0.012	-
11:56	0.010	0.013	11:56	0.010	0.012	-
11:57	0.015	0.013	11:57	0.007	0.012	-
11:58	0.016	0.012	11:58	0.007	0.010	-
11:59	0.016	0.013	11:59	0.007	0.007	-
12:00	0.012	0.013	12:00	0.009	0.008	-
12:01	0.010	0.013	12:01	0.008	0.008	-
12:02	0.009	0.013	12:02	0.009	0.008	-
12:03	0.013	0.013	12:03	0.008	0.008	-
12:04	0.011	0.013	12:04	0.008	0.008	-
12:05	0.011	0.013	12:05	0.007	0.008	-
12:06	0.013	0.013	12:06	0.007	0.008	-
12:07	0.014	0.013	12:07	0.008	0.008	-
12:08	0.017	0.013	12:08	0.011	0.008	-
12:09	0.012	0.013	12:09	0.008	0.008	-
12:10	0.010	0.013	12:10	0.015	0.009	-
12:11	0.009	0.013	12:11	0.013	0.009	-
12:12	0.009	0.012	12:12	0.010	0.009	-
12:13	0.009	0.012	12:13	0.008	0.009	-
12:14	0.011	0.011	12:14	0.008	0.009	-

PARTICULATE DATA						
Upwind			Downwind			Exceeds Particulate Alarm Limits
Time	Concentration (mg/m ³)	15-Minute Average	Time	Concentration (mg/m ³)	15-Minute Average	
12:15	0.011	0.011	12:15	0.007	0.009	-
12:16	0.009	0.011	12:16	0.008	0.009	-
12:17	0.009	0.011	12:17	0.010	0.009	-
12:18	0.012	0.011	12:18	0.010	0.009	-
12:19	0.010	0.011	12:19	0.012	0.009	-
12:20	0.013	0.011	12:20	0.009	0.010	-
12:21	0.012	0.011	12:21	0.009	0.010	-
12:22	0.010	0.011	12:22	0.015	0.010	-
12:23	0.010	0.010	12:23	0.009	0.010	-
12:24	0.010	0.010	12:24	0.008	0.010	-
12:25	0.010	0.010	12:25	0.009	0.010	-
12:26	0.013	0.011	12:26	0.008	0.009	-
12:27	0.013	0.011	12:27	0.010	0.009	-
12:28	0.011	0.011	12:28	0.020	0.010	-
12:29	0.010	0.011	12:29	0.025	0.011	-
12:30	0.010	0.011	12:30	0.034	0.013	-
12:31	0.010	0.011	12:31	0.014	0.013	-
12:32	0.010	0.011	12:32	0.009	0.013	-
12:33	0.011	0.011	12:33	0.009	0.013	-
12:34	0.009	0.011	12:34	0.018	0.014	-
12:35	0.010	0.011	12:35	0.030	0.015	-
12:36	0.009	0.010	12:36	0.009	0.015	-
12:37	0.012	0.011	12:37	0.009	0.015	-
12:38	0.011	0.011	12:38			
12:39	0.011	0.011	12:39			
12:40	0.009	0.011	12:40			
12:41	0.012	0.011	12:41			
12:42	0.012	0.010	12:42			
12:43	0.011	0.010	12:43			

Tuesday, November 15, 2022						
Number of Instances Where Downwind VOCs Exceeds Upwind VOCs + 5 =						0
Number of Comparable Data Points =						332
Start Time:						6:57
End Time:						12:55
PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
6:57	0.0		6:57			
6:58	0.0		6:58			
6:59	0.0		6:59			
7:00	0.0		7:00			
7:01	0.0		7:01			
7:02	0.0		7:02			
7:03	0.0		7:03			
7:04	0.0		7:04			
7:05	0.0		7:05			
7:06	0.0		7:06			
7:07	0.0		7:07			
7:08	0.0		7:08			
7:09	0.0		7:09	0.0		
7:10	0.0		7:10	0.0		
7:11	0.0	0.0	7:11	0.0		
7:12	0.0	0.0	7:12	0.0		
7:13	0.0	0.0	7:13	0.0		
7:14	0.0	0.0	7:14	0.0		
7:15	0.0	0.0	7:15	0.0		
7:16	0.0	0.0	7:16	0.0		
7:17	0.0	0.0	7:17	0.0		
7:18	0.0	0.0	7:18	0.0		
7:19	0.0	0.0	7:19	0.0		
7:20	0.0	0.0	7:20	0.0		
7:21	0.0	0.0	7:21	0.0		
7:22	0.0	0.0	7:22	0.0		
7:23	0.0	0.0	7:23	0.0	0.0	-
7:24	0.0	0.0	7:24	0.0	0.0	-
7:25	0.0	0.0	7:25	0.0	0.0	-
7:26	0.0	0.0	7:26	0.0	0.0	-
7:27	0.0	0.0	7:27	0.0	0.0	-
7:28	0.0	0.0	7:28	0.0	0.0	-
7:29	0.0	0.0	7:29	0.0	0.0	-
7:30	0.0	0.0	7:30	0.0	0.0	-
7:31	0.0	0.0	7:31	0.0	0.0	-
7:32	0.0	0.0	7:32	0.0	0.0	-
7:33	0.0	0.0	7:33	0.0	0.0	-
7:34	0.0	0.0	7:34	0.0	0.0	-
7:35	0.0	0.0	7:35	0.0	0.0	-
7:36	0.0	0.0	7:36	0.0	0.0	-
7:37	0.0	0.0	7:37	0.0	0.0	-
7:38	0.0	0.0	7:38	0.0	0.0	-
7:39	0.0	0.0	7:39	0.0	0.0	-
7:40	0.0	0.0	7:40	0.0	0.0	-
7:41	0.0	0.0	7:41	0.0	0.0	-
7:42	0.0	0.0	7:42	0.0	0.0	-
7:43	0.0	0.0	7:43	0.0	0.0	-
7:44	0.0	0.0	7:44	0.0	0.0	-
7:45	0.0	0.0	7:45	0.0	0.0	-
7:46	0.0	0.0	7:46	0.0	0.0	-
7:47	0.0	0.0	7:47	0.0	0.0	-
7:48	0.0	0.0	7:48	0.0	0.0	-
7:49	0.0	0.0	7:49	0.0	0.0	-
7:50	0.0	0.0	7:50	0.0	0.0	-
7:51	0.0	0.0	7:51	0.0	0.0	-
7:52	0.0	0.0	7:52	0.0	0.0	-
7:53	0.0	0.0	7:53	0.0	0.0	-
7:54	0.0	0.0	7:54	0.0	0.0	-
7:55	0.0	0.0	7:55	0.0	0.0	-
7:56	0.0	0.0	7:56	0.0	0.0	-
7:57	0.0	0.0	7:57	0.0	0.0	-
7:58	0.0	0.0	7:58	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
7:59	0.0	0.0	7:59	0.0	0.0	-
8:00	0.0	0.0	8:00	0.0	0.0	-
8:01	0.0	0.0	8:01	0.0	0.0	-
8:02	0.0	0.0	8:02	0.0	0.0	-
8:03	0.0	0.0	8:03	0.0	0.0	-
8:04	0.0	0.0	8:04	0.0	0.0	-
8:05	0.0	0.0	8:05	0.0	0.0	-
8:06	0.0	0.0	8:06	0.0	0.0	-
8:07	0.0	0.0	8:07	0.0	0.0	-
8:08	0.0	0.0	8:08	0.0	0.0	-
8:09	0.0	0.0	8:09	0.1	0.0	-
8:10	0.0	0.0	8:10	0.0	0.0	-
8:11	0.0	0.0	8:11	0.0	0.0	-
8:12	0.0	0.0	8:12	0.0	0.0	-
8:13	0.0	0.0	8:13	0.0	0.0	-
8:14	0.0	0.0	8:14	0.0	0.0	-
8:15	0.0	0.0	8:15	0.0	0.0	-
8:16	0.0	0.0	8:16	0.0	0.0	-
8:17	0.0	0.0	8:17	0.1	0.0	-
8:18	0.0	0.0	8:18	0.0	0.0	-
8:19	0.0	0.0	8:19	0.0	0.0	-
8:20	0.0	0.0	8:20	0.0	0.0	-
8:21	0.0	0.0	8:21	0.0	0.0	-
8:22	0.0	0.0	8:22	0.0	0.0	-
8:23	0.0	0.0	8:23	0.0	0.0	-
8:24	0.0	0.0	8:24	0.0	0.0	-
8:25	0.0	0.0	8:25	0.0	0.0	-
8:26	0.0	0.0	8:26	0.0	0.0	-
8:27	0.0	0.0	8:27	0.0	0.0	-
8:28	0.0	0.0	8:28	0.0	0.0	-
8:29	0.0	0.0	8:29	0.0	0.0	-
8:30	0.0	0.0	8:30	0.0	0.0	-
8:31	0.0	0.0	8:31	0.0	0.0	-
8:32	0.0	0.0	8:32	0.0	0.0	-
8:33	0.0	0.0	8:33	0.0	0.0	-
8:34	0.0	0.0	8:34	0.0	0.0	-
8:35	0.0	0.0	8:35	0.0	0.0	-
8:36	0.0	0.0	8:36	0.0	0.0	-
8:37	0.0	0.0	8:37	0.0	0.0	-
8:38	0.0	0.0	8:38	0.0	0.0	-
8:39	0.0	0.0	8:39	0.0	0.0	-
8:40	0.0	0.0	8:40	0.0	0.0	-
8:41	0.0	0.0	8:41	0.1	0.0	-
8:42	0.0	0.0	8:42	0.0	0.0	-
8:43	0.0	0.0	8:43	0.0	0.0	-
8:44	0.0	0.0	8:44	0.0	0.0	-
8:45	0.0	0.0	8:45	0.0	0.0	-
8:46	0.0	0.0	8:46	0.0	0.0	-
8:47	0.0	0.0	8:47	0.1	0.0	-
8:48	0.0	0.0	8:48	0.0	0.0	-
8:49	0.0	0.0	8:49	0.0	0.0	-
8:50	0.0	0.0	8:50	0.0	0.0	-
8:51	0.0	0.0	8:51	0.0	0.0	-
8:52	0.0	0.0	8:52	0.0	0.0	-
8:53	0.0	0.0	8:53	0.0	0.0	-
8:54	0.0	0.0	8:54	0.0	0.0	-
8:55	0.0	0.0	8:55	0.0	0.0	-
8:56	0.0	0.0	8:56	0.0	0.0	-
8:57	0.0	0.0	8:57	0.0	0.0	-
8:58	0.0	0.0	8:58	0.0	0.0	-
8:59	0.0	0.0	8:59	0.0	0.0	-
9:00	0.0	0.0	9:00	0.0	0.0	-
9:01	0.0	0.0	9:01	0.1	0.0	-
9:02	0.0	0.0	9:02	0.1	0.0	-
9:03	0.0	0.0	9:03	0.1	0.0	-
9:04	0.0	0.0	9:04	0.1	0.0	-
9:05	0.0	0.0	9:05	0.1	0.0	-
9:06	0.0	0.0	9:06	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
9:07	0.0	0.0	9:07	0.0	0.0	-
9:08	0.0	0.0	9:08	0.0	0.0	-
9:09	0.0	0.0	9:09	0.0	0.0	-
9:10	0.0	0.0	9:10	0.0	0.0	-
9:11	0.0	0.0	9:11	0.0	0.0	-
9:12	0.0	0.0	9:12	0.0	0.0	-
9:13	0.0	0.0	9:13	0.0	0.0	-
9:14	0.0	0.0	9:14	0.0	0.0	-
9:15	0.0	0.0	9:15	0.0	0.0	-
9:16	0.0	0.0	9:16	0.0	0.0	-
9:17	0.0	0.0	9:17	0.0	0.0	-
9:18	0.0	0.0	9:18	0.0	0.0	-
9:19	0.0	0.0	9:19	0.0	0.0	-
9:20	0.0	0.0	9:20	0.0	0.0	-
9:21	0.0	0.0	9:21	0.0	0.0	-
9:22	0.0	0.0	9:22	0.0	0.0	-
9:23	0.0	0.0	9:23	0.0	0.0	-
9:24	0.0	0.0	9:24	0.0	0.0	-
9:25	0.0	0.0	9:25	0.0	0.0	-
9:26	0.0	0.0	9:26	0.0	0.0	-
9:27	0.0	0.0	9:27	0.0	0.0	-
9:28	0.0	0.0	9:28	0.0	0.0	-
9:29	0.0	0.0	9:29	0.0	0.0	-
9:30	0.0	0.0	9:30	0.0	0.0	-
9:31	0.0	0.0	9:31	0.0	0.0	-
9:32	0.0	0.0	9:32	0.0	0.0	-
9:33	0.0	0.0	9:33	0.0	0.0	-
9:34	0.0	0.0	9:34	0.0	0.0	-
9:35	0.0	0.0	9:35	0.0	0.0	-
9:36	0.0	0.0	9:36	0.0	0.0	-
9:37	0.0	0.0	9:37	0.0	0.0	-
9:38	0.0	0.0	9:38	0.0	0.0	-
9:39	0.0	0.0	9:39	0.0	0.0	-
9:40	0.0	0.0	9:40	0.0	0.0	-
9:41	0.0	0.0	9:41	0.0	0.0	-
9:42	0.0	0.0	9:42	0.0	0.0	-
9:43	0.0	0.0	9:43	0.0	0.0	-
9:44	0.0	0.0	9:44	0.0	0.0	-
9:45	0.0	0.0	9:45	0.0	0.0	-
9:46	0.0	0.0	9:46	0.0	0.0	-
9:47	0.0	0.0	9:47	0.0	0.0	-
9:48	0.0	0.0	9:48	0.0	0.0	-
9:49	0.0	0.0	9:49	0.0	0.0	-
9:50	0.0	0.0	9:50	0.0	0.0	-
9:51	0.0	0.0	9:51	0.1	0.0	-
9:52	0.0	0.0	9:52	0.0	0.0	-
9:53	0.0	0.0	9:53	0.0	0.0	-
9:54	0.0	0.0	9:54	0.0	0.0	-
9:55	0.0	0.0	9:55	0.0	0.0	-
9:56	0.0	0.0	9:56	0.0	0.0	-
9:57	0.0	0.0	9:57	0.0	0.0	-
9:58	0.0	0.0	9:58	0.0	0.0	-
9:59	0.0	0.0	9:59	0.0	0.0	-
10:00	0.0	0.0	10:00	0.0	0.0	-
10:01	0.0	0.0	10:01	0.0	0.0	-
10:02	0.0	0.0	10:02	0.0	0.0	-
10:03	0.0	0.0	10:03	0.0	0.0	-
10:04	0.0	0.0	10:04	0.0	0.0	-
10:05	0.0	0.0	10:05	0.0	0.0	-
10:06	0.0	0.0	10:06	0.1	0.0	-
10:07	0.0	0.0	10:07	0.0	0.0	-
10:08	0.0	0.0	10:08	0.0	0.0	-
10:09	0.0	0.0	10:09	0.0	0.0	-
10:10	0.0	0.0	10:10	0.0	0.0	-
10:11	0.0	0.0	10:11	0.0	0.0	-
10:12	0.0	0.0	10:12	0.0	0.0	-
10:13	0.0	0.0	10:13	0.1	0.0	-
10:14	0.0	0.0	10:14	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
10:15	0.0	0.0	10:15	0.0	0.0	-
10:16	0.0	0.0	10:16	0.0	0.0	-
10:17	0.0	0.0	10:17	0.0	0.0	-
10:18	0.0	0.0	10:18	0.0	0.0	-
10:19	0.0	0.0	10:19	0.0	0.0	-
10:20	0.0	0.0	10:20	0.0	0.0	-
10:21	0.0	0.0	10:21	0.0	0.0	-
10:22	0.0	0.0	10:22	0.0	0.0	-
10:23	0.0	0.0	10:23	0.0	0.0	-
10:24	0.0	0.0	10:24	0.0	0.0	-
10:25	0.0	0.0	10:25	0.0	0.0	-
10:26	0.0	0.0	10:26	0.0	0.0	-
10:27	0.0	0.0	10:27	0.0	0.0	-
10:28	0.0	0.0	10:28	0.0	0.0	-
10:29	0.0	0.0	10:29	0.0	0.0	-
10:30	0.0	0.0	10:30	0.0	0.0	-
10:31	0.0	0.0	10:31	0.0	0.0	-
10:32	0.0	0.0	10:32	0.0	0.0	-
10:33	0.0	0.0	10:33	0.0	0.0	-
10:34	0.0	0.0	10:34	0.0	0.0	-
10:35	0.0	0.0	10:35	0.0	0.0	-
10:36	0.0	0.0	10:36	0.0	0.0	-
10:37	0.0	0.0	10:37	0.0	0.0	-
10:38	0.0	0.0	10:38	0.0	0.0	-
10:39	0.0	0.0	10:39	0.0	0.0	-
10:40	0.0	0.0	10:40	0.0	0.0	-
10:41	0.0	0.0	10:41	0.0	0.0	-
10:42	0.0	0.0	10:42	0.0	0.0	-
10:43	0.0	0.0	10:43	0.0	0.0	-
10:44	0.0	0.0	10:44	0.0	0.0	-
10:45	0.0	0.0	10:45	0.0	0.0	-
10:46	0.0	0.0	10:46	0.0	0.0	-
10:47	0.0	0.0	10:47	0.0	0.0	-
10:48	0.0	0.0	10:48	0.0	0.0	-
10:49	0.0	0.0	10:49	0.0	0.0	-
10:50	0.0	0.0	10:50	0.0	0.0	-
10:51	0.0	0.0	10:51	0.0	0.0	-
10:52	0.0	0.0	10:52	0.0	0.0	-
10:53	0.0	0.0	10:53	0.0	0.0	-
10:54	0.0	0.0	10:54	0.0	0.0	-
10:55	0.0	0.0	10:55	0.0	0.0	-
10:56	0.0	0.0	10:56	0.0	0.0	-
10:57	0.0	0.0	10:57	0.0	0.0	-
10:58	0.0	0.0	10:58	0.0	0.0	-
10:59	0.0	0.0	10:59	0.0	0.0	-
11:00	0.0	0.0	11:00	0.0	0.0	-
11:01	0.0	0.0	11:01	0.0	0.0	-
11:02	0.0	0.0	11:02	0.0	0.0	-
11:03	0.0	0.0	11:03	0.0	0.0	-
11:04	0.0	0.0	11:04	0.0	0.0	-
11:05	0.0	0.0	11:05	0.0	0.0	-
11:06	0.0	0.0	11:06	0.0	0.0	-
11:07	0.0	0.0	11:07	0.0	0.0	-
11:08	0.0	0.0	11:08	0.0	0.0	-
11:09	0.0	0.0	11:09	0.0	0.0	-
11:10	0.0	0.0	11:10	0.0	0.0	-
11:11	0.0	0.0	11:11	0.0	0.0	-
11:12	0.0	0.0	11:12	0.0	0.0	-
11:13	0.0	0.0	11:13	0.0	0.0	-
11:14	0.0	0.0	11:14	0.0	0.0	-
11:15	0.0	0.0	11:15	0.0	0.0	-
11:16	0.0	0.0	11:16	0.0	0.0	-
11:17	0.0	0.0	11:17	0.0	0.0	-
11:18	0.0	0.0	11:18	0.0	0.0	-
11:19	0.0	0.0	11:19	0.0	0.0	-
11:20	0.0	0.0	11:20	0.0	0.0	-
11:21	0.0	0.0	11:21	0.0	0.0	-
11:22	0.0	0.0	11:22	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
11:23	0.0	0.0	11:23	0.0	0.0	-
11:24	0.0	0.0	11:24	0.0	0.0	-
11:25	0.0	0.0	11:25	0.0	0.0	-
11:26	0.0	0.0	11:26	0.0	0.0	-
11:27	0.0	0.0	11:27	0.0	0.0	-
11:28	0.0	0.0	11:28	0.0	0.0	-
11:29	0.0	0.0	11:29	0.0	0.0	-
11:30	0.0	0.0	11:30	0.0	0.0	-
11:31	0.0	0.0	11:31	0.0	0.0	-
11:32	0.0	0.0	11:32	0.0	0.0	-
11:33	0.0	0.0	11:33	0.0	0.0	-
11:34	0.0	0.0	11:34	0.0	0.0	-
11:35	0.0	0.0	11:35	0.0	0.0	-
11:36	0.0	0.0	11:36	0.0	0.0	-
11:37	0.0	0.0	11:37	0.0	0.0	-
11:38	0.0	0.0	11:38	0.0	0.0	-
11:39	0.0	0.0	11:39	0.0	0.0	-
11:40	0.0	0.0	11:40	0.0	0.0	-
11:41	0.0	0.0	11:41	0.0	0.0	-
11:42	0.0	0.0	11:42	0.0	0.0	-
11:43	0.0	0.0	11:43	0.0	0.0	-
11:44	0.0	0.0	11:44	0.0	0.0	-
11:45	0.0	0.0	11:45	0.0	0.0	-
11:46	0.0	0.0	11:46	0.0	0.0	-
11:47	0.0	0.0	11:47	0.0	0.0	-
11:48	0.0	0.0	11:48	0.0	0.0	-
11:49	0.0	0.0	11:49	0.0	0.0	-
11:50	0.0	0.0	11:50	0.0	0.0	-
11:51	0.0	0.0	11:51	0.0	0.0	-
11:52	0.0	0.0	11:52	0.0	0.0	-
11:53	0.0	0.0	11:53	0.0	0.0	-
11:54	0.0	0.0	11:54	0.0	0.0	-
11:55	0.0	0.0	11:55	0.0	0.0	-
11:56	0.0	0.0	11:56	0.0	0.0	-
11:57	0.0	0.0	11:57	0.0	0.0	-
11:58	0.0	0.0	11:58	0.0	0.0	-
11:59	0.0	0.0	11:59	0.0	0.0	-
12:00	0.0	0.0	12:00	0.0	0.0	-
12:01	0.0	0.0	12:01	0.0	0.0	-
12:02	0.0	0.0	12:02	0.0	0.0	-
12:03	0.0	0.0	12:03	0.0	0.0	-
12:04	0.0	0.0	12:04	0.0	0.0	-
12:05	0.0	0.0	12:05	0.0	0.0	-
12:06	0.0	0.0	12:06	0.0	0.0	-
12:07	0.0	0.0	12:07	0.0	0.0	-
12:08	0.0	0.0	12:08	0.0	0.0	-
12:09	0.0	0.0	12:09	0.0	0.0	-
12:10	0.0	0.0	12:10	0.0	0.0	-
12:11	0.0	0.0	12:11	0.0	0.0	-
12:12	0.0	0.0	12:12	0.0	0.0	-
12:13	0.0	0.0	12:13	0.0	0.0	-
12:14	0.0	0.0	12:14	0.0	0.0	-
12:15	0.0	0.0	12:15	0.0	0.0	-
12:16	0.0	0.0	12:16	0.0	0.0	-
12:17	0.0	0.0	12:17	0.0	0.0	-
12:18	0.0	0.0	12:18	0.0	0.0	-
12:19	0.0	0.0	12:19	0.0	0.0	-
12:20	0.0	0.0	12:20	0.0	0.0	-
12:21	0.0	0.0	12:21	0.0	0.0	-
12:22	0.0	0.0	12:22	0.0	0.0	-
12:23	0.0	0.0	12:23	0.0	0.0	-
12:24	0.0	0.0	12:24	0.0	0.0	-
12:25	0.0	0.0	12:25	0.0	0.0	-
12:26	0.0	0.0	12:26	0.0	0.0	-
12:27	0.0	0.0	12:27	0.0	0.0	-
12:28	0.0	0.0	12:28	0.0	0.0	-
12:29	0.0	0.0	12:29	0.0	0.0	-
12:30	0.0	0.0	12:30	0.0	0.0	-

PID DATA						
Upwind			Downwind			Exceeds VOCs Alarm Limits
Time	VOC (ppm)	15-Minute Average	Time	VOC (ppm)	15-Minute Average	
12:31	0.0	0.0	12:31	0.0	0.0	-
12:32	0.0	0.0	12:32	0.0	0.0	-
12:33	0.0	0.0	12:33	0.0	0.0	-
12:34	0.0	0.0	12:34	0.0	0.0	-
12:35	0.0	0.0	12:35	0.0	0.0	-
12:36	0.0	0.0	12:36	0.0	0.0	-
12:37	0.0	0.0	12:37	0.0	0.0	-
12:38	0.0	0.0	12:38	0.0	0.0	-
12:39	0.0	0.0	12:39	0.0	0.0	-
12:40	0.0	0.0	12:40	0.0	0.0	-
12:41	0.0	0.0	12:41	0.0	0.0	-
12:42	0.0	0.0	12:42	0.0	0.0	-
12:43	0.0	0.0	12:43	0.0	0.0	-
12:44	0.0	0.0	12:44	0.0	0.0	-
12:45	0.0	0.0	12:45	0.0	0.0	-
12:46	0.0	0.0	12:46	0.0	0.0	-
12:47	0.0	0.0	12:47	0.0	0.0	-
12:48	0.0	0.0	12:48	0.0	0.0	-
12:49	0.0	0.0	12:49	0.0	0.0	-
12:50	0.0	0.0	12:50	0.0	0.0	-
12:51	0.0	0.0	12:51	0.0	0.0	-
12:52	0.0	0.0	12:52	0.0	0.0	-
12:53	0.0	0.0	12:53	0.0	0.0	-
12:54	0.0	0.0	12:54	0.0	0.0	-
12:55	0.0	0.0	12:55	0.0		

APPENDIX H

SITE OBSERVATION REPORTS

APPENDIX I

LABORATORY ANALYTICAL DATA REPORTS

APPENDIX J

DATA USABILITY SUMMARY REPORTS

APPENDIX K

COMPLETED FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS DECISION KEY