

ASTORIA COVE

QUEENS, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 18TMP0938Q

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos Containing Material
AOC	Area of Concern
AWQS	Ambient Water Quality Standard
CAMP	Community Air Monitoring Plan
Cis-1,2-DCE	Cis-1,2-dichloroethene
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
CUSCO	Commercial Use Soil Cleanup Objective
1,1-DCE	1,1-Dichloroethene
DER-10	New York State Department of Environmental Conservation Technical Guide 10
DTB	Depth to Bottom
DTW	Depth to Water
EDR	Environmental Data Resources
EM	Electromagnetic Magnetometer
ESA	Environmental Site Assessment
FID	Flame Ionization Detector
Ft bgs	Feet Below Ground Surface
GEI	GEI Consultants, Inc., P.C.
GPR	Ground Penetrating Radar
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HIST UST	Historical Underground Storage Tank
IUSCO	Industrial Use Soil Cleanup Objective
L/min	Liters per minute
LBP	Lead Based Paint

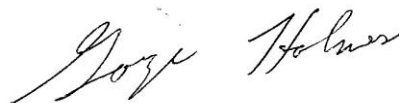
Mg/kg	Milligrams per Kilogram
MS/MSD	-Matrix Spike/Matrix Spike Duplicate
6NYCRR	Title 6 New York Codes, Rules, and Regulations
NYC VCP	New York City Voluntary Cleanup Program
NYC OER	New York City Office of Environmental Remediation
NYSDEC	New York State Department of Environmental Conservation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PBS	Petroleum Bulk Storage
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
PPM	Parts Per Million
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
RRUSCO	Restricted Residential Use Soil Cleanup Objective
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
TOGS	Technical and Operations Guidance Series
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UUSCO	Unrestricted Use Soil Cleanup Objective
VOC	Volatile Organic Compound

CERTIFICATION

I, George Holmes, P.G., am a Qualified Environmental Professional, as defined in RCNY § 43-1402(tt). I have primary direct responsibility for implementation of the Remedial Investigation for the Astoria Cove Site, (OER Project No. 18TMP0938Q). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

George Holmes, P.G.

4/19/2022

A handwritten signature in black ink, appearing to read "George Holmes", written over a horizontal line.

Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 26-10 9th Street in the Astoria section in Queens, New York and is identified as Block 906 Lots 1 & 5, Block 907 Lot 1, Block 908 Lot 12, and Block 909 Lot 35 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 135,940-square feet and is bounded by the East River to the north, 27th Avenue to the south, 9th Street and eight residential buildings to the east, and two open lots, a commercial building, a mixed-use commercial and residential building, and a residential building to the west. An unimproved segment of 26th Avenue and an easement for 8th Street are also present on-Site. A map of the site boundary is shown in Figure 2. Currently, the Site is used for storage of equipment and materials by several contractors and contains two buildings, one of which is vacant, and the other is used to store taxi vehicles, and each contain small partial basements that extend approximately 10 feet below ground surface (ft bgs), at an elevation of approximately 10 ft NAVD88.

The Site elevation varies, but the northern portion of the Site is generally flat and the southern end of the Site is at a higher elevation. The southern end of the Site is at an elevation of approximately 45 ft NAVD88 and the northern portion of the Site is at an elevation of approximately 20 ft NAVD88. As you move to the north across the Site and approach the East River the elevation drops to approximately 13 ft NAVD88.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of four new mixed-use buildings, designated Building 3A, Building 3B, Building 4, and Building 5. Buildings 3A and 3B will be located on Block 906 Lots 1 & 5 and a small portion of Block 907 Lot 1, which will contain the 8th Street Mews; Building 4 will be located on Block 909 Lot 35; and Building 5 will be located on Block 908 Lot 12. Layout of the proposed Site development is presented in Figure 3. The current zoning designation is R7-3 with a C2-4 overlay for Buildings 3A and 3B; R7A with a C2-4

overlay and R6B for Building 4; and R7A with a C2-4 overlay, R6B, and R6 for Building 5. The proposed use is consistent with existing zoning for the property.

Buildings 3A and 3B will consist of an 8-story and 26-story building, respectively, with a full cellar extending approximately 10 ft bgs on average, to an elevation of approximately 8.5 ft NAVD88, and has a combined footprint of approximately 40,000 square feet, a combined gross floor area of approximately 446,000 square feet, and a combined zoning floor area of approximately 344,000 square feet. The cellar will be used for parking and mechanical rooms; the first floor will be used for parking, commercial retail space, and residential space; the second and third floors will be used for parking and residential space; and floors 4 through 26 will be used for residential space. The excavation for the cellar will extend to an elevation of approximately 8.5 ft NAVD88, which is approximately 4.5 to 12.5 ft bgs. The open spaces to the south and east of the building will be finished with sidewalks and the area to the west will be developed as the 8th Street Mews. The open space to the north of the building will be developed as a public walkway.

Building 4 will consist of an eight-story building with a full cellar extending approximately 15 to 41 ft bgs, to an elevation of approximately 4 ft NAVD88, due to the rise in elevation on the southern portion of the Site and has a footprint of approximately 21,200 square feet, a gross floor area of approximately 127,000 square feet, and a zoning floor area of approximately 77,000 square feet. The cellar will be used for parking and mechanical rooms; the first floor will be used for mechanical rooms, commercial retail space, and residential space and floors two through eight will be used for residential space. The excavation for the cellar will extend to an elevation of approximately 4 ft NAVD88, which is approximately 16 to 42 ft bgs. The open space to the north of the building will be finished with a sidewalk and the area to the east will be developed as the 8th Street Mews.

Building 5 will consist of a six-story building with a full cellar at grade in the northern portion of the building and extending approximately 27 ft bgs in the southern portion of the building, to an elevation of approximately 20 ft NAVD88 in the northern portion of the building and approximately 18.5 ft NAVD88 in the southern portion of the building, due to the rise in elevation on the southern portion of the Site. Building 5 will have a footprint of approximately 9,600 square feet, a gross floor area of approximately 76,000 square feet, and a zoning floor area of approximately 56,000 square feet. The cellar/first-floor will be used for mechanical rooms and residential space, and floors two through six will be used for residential space. The

excavation for the cellar will extend to an elevation of approximately 20 ft NAVD88 in the northern portion of the building and approximately 18.5 ft NAVD88 in the southern portion of the building, which is approximately 0 to 28 ft bgs. The open space to the north of the building will be finished with a sidewalk and the area to the west will be developed as the 8th Street Mews. The open space to the southeast of the building will be a rear yard and the open space to the northeast of the building will remain undeveloped and, at the option of the School Construction Authority, will eventually be developed as a school during a later phase of development.

The unimproved portion of 26th Avenue will be improved and will connect to 9th Street and the 8th Street easement will be improved as the 8th Street Mews.

The development of Buildings 3A, 3B, 4, and 5 constitute the Phase I development plan for the Astoria Cove property. Phases 2 and 3 of development will occur on adjoining lots, which are also in the “E” Designation Program, at a later date.

Summary of Past Uses of Site and Areas of Concern

The Site was developed for industrial use in the 1930s to 1940s and has always been used for industrial, manufacturing, or commercial purposes.

The Areas of Concern (AOCs) identified for this site include:

1. The past usage of the Site for industrial purposes.
2. The presence of historic fill material across the Site.
3. The possible presence of a UST on the northern side of the eastern building.

A map showing the location of the possible UST is presented in Figure 5.

Summary of the Work Performed under the Remedial Investigation

Astoria Cove Phase 1, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.).
2. Performed a geophysical survey across the entire Site to investigate for the presence of potential USTs, drums, etc. related to the former industrial use of the Site.

3. Installed 26 soil borings across the entire project Site and collected 52 soil samples for chemical analysis from the soil borings to evaluate soil quality.
4. Installed eight groundwater monitoring wells throughout the Site to establish groundwater flow and collected eight groundwater samples for chemical analysis to evaluate groundwater quality.
5. Installed 15 soil vapor probes around the Site perimeter and collected 15 samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from approximately 13 feet NAVD88 in the north along the East River to approximately 45 feet NAVD88 in the southern portion of the Site.
2. Depth to groundwater ranges from approximately 10 to 20 feet in the northern portion of the Site, at an elevation of approximately 1 to 4.5 ft NAVD88, and is anticipated at approximately 40 to 45 feet in the elevated southern portion of the Site.
3. Groundwater flow is generally from south to north beneath the Site towards the East River.
4. Depth to bedrock was encountered during a previous geotechnical investigation at approximately 75 to greater than 100 ft bgs at the Site.
5. The stratigraphy of the site, from the surface down, consists of historic fill to a depth of 5 to 10 ft bgs underlain by glacial sands and gravel to the termination depths of the borings.
6. Soil/fill samples collected during the RI were compared to the Title 6 New York Codes, Rules, and Regulations (6NYCRR) Part 375-6.8 Unrestricted Use Soil Cleanup Objectives (SCOs) and the Restricted Residential Use SCOs. The soil/fill samples showed the following:
 - a. Buildings 3A and 3B:
 - i. VOCs including acetone (max. of 0.12 mg/kg), tetrachloroethene (PCE) (max. of 38 mg/kg), and trichloroethene (TCE) (at 0.86 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of

these VOCs, tetrachloroethene was also detected at a concentration exceeding its Restricted Residential Use SCOs.

- ii. SVOCs including benzo(a)anthracene (max. of 3.4 mg/kg), benzo(a)pyrene (max. of 2.9 mg/kg), benzo(b)fluoranthene (max. of 4.2 mg/kg), benzo(k)fluoranthene (at 1.2 mg/kg), chrysene (max. of 3.1 mg/kg), dibenzo(a,h)anthracene (at 0.38 mg/kg), and indeno(1,2,3-cd)pyrene (max. of 2 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations exceeding their Restricted Residential Use SCOs.
- iii. Pesticides including 4,4'-DDE (at 0.00562 mg/kg), 4,4'-DDD (at 0.0072 mg/kg), and 4,4'-DDT (at 0.0233 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs.
- iv. PCBs including aroclor 1248 (max. of 3.21 mg/kg), aroclor 1254 (at 3.44 mg/kg), aroclor 1260 (at 0.117 mg/kg), aroclor 1268 (at 1.22 mg/kg), and total PCBs (max. of 3.44 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these PCBs, aroclor 1248, aroclor 1254, aroclor 1268, and total PCBs were also detected at concentrations exceeding their Restricted Residential Use SCOs.
- v. Metals including copper (max. of 156 mg/kg), lead (max. of 168 mg/kg), mercury (max. of 1.45 mg/kg), nickel (at 140 mg/kg), trivalent chromium (max. of 220 mg/kg), and zinc (max. of 265 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these metals, mercury and trivalent chromium were also detected at concentrations exceeding their Restricted Residential Use SCOs.
- vi. Emerging contaminants including perfluorooctanoic acid (PFOA) (at 0.000046 mg/kg), perfluorooctanesulfonic acid (PFOS) (at 0.00128 mg/kg), and perfluoroundecanoic acid (PFUnA) (at 0.000059 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.

b. Building 4:

- i. The VOC acetone (at 0.12 mg/kg) was detected at a concentration exceeding its Unrestricted Use SCO.
- ii. SVOCs including benzo(a)anthracene (max. of 110 mg/kg), benzo(a)pyrene (max. of 100 mg/kg), benzo(b)fluoranthene (max. of 150 mg/kg), benzo(k)fluoranthene (max. of 12 mg/kg), chrysene (max. of 110 mg/kg), dibenzo(a,h)anthracene (max. of 5.3 mg/kg), dibenzofuran (at 8.4 mg/kg), fluoranthene (at 260 mg/kg), indeno(1,2,3-cd)pyrene (max. of 80 mg/kg), phenanthrene (at 160 mg/kg), and pyrene (at 200 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k) fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were also detected at concentrations exceeding their Restricted Residential Use SCOs.
- iii. Pesticides including 4,4'-DDE (at 0.0129 mg/kg) and 4,4'-DDT (max. of 0.0093 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs.
- iv. PCBs including aroclor 1268 (at 0.132 mg/kg) and total PCBs (at 0.171 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs.
- v. Metals including copper (at 55.4 mg/kg), trivalent chromium (at 39 mg/kg), lead (max. of 333 mg/kg), mercury (at 0.331 mg/kg), and zinc (max. of 204 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs.
- vi. Emerging contaminants including PFOA (max. of 0.000127 mg/kg), PFOS (0.00178 mg/kg), perfluorononanoic acid (PFNA) (at 0.00084 mg/kg), perfluorodecanoic acid (PFDA) (at 0.000114 mg/kg), n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) (at 0.00029 mg/kg), PFUnA (at 0.000116 mg/kg), perfluorododecanoic acid (PFDoA) (at 0.000122 mg/kg), and perfluorotetradecanoic acid (PFTA)

(at 0.000215 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.

c. Building 5:

- i. Pesticides and PCBs were not detected at concentrations above the Unrestricted Use SCOs in the soil samples.
 - ii. The VOC acetone (max. of 0.061 mg/kg) was detected at a concentration exceeding its Unrestricted Use SCO.
 - iii. SVOCs including benzo(a)anthracene (max. of 1.3 mg/kg), benzo(a)pyrene (max. of 1.6 mg/kg), benzo(b)fluoranthene (max. of 2.4 mg/kg), chrysene (at 1.5 mg/kg), and indeno(1,2,3-cd)pyrene (max. of 1.3 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations exceeding their Restricted Residential Use SCOs.
 - iv. Metals including copper (at 87.6 mg/kg), trivalent chromium (max. of 240 mg/kg), lead (max. of 158 mg/kg), mercury (at 0.401 mg/kg), nickel (at 93.7 mg/kg), and zinc (max. of 182 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these metals, trivalent chromium was also detected at a concentration exceeding its Restricted Residential Use SCO.
 - v. Emerging contaminants including PFOA (max. of 0.000241 mg/kg), PFOS (at 0.000198 mg/kg), and PFTA (max. of 0.00007 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.
- d. All of the soil samples with Restricted Residential Use SCO exceedances were collected from within the historic fill layer as well as the majority of the samples with Unrestricted Use SCO exceedances. No visual impacts (e.g., staining, odors, sheens, etc.) were identified and no PID readings above background were noted in the soil on-Site, indicating that the impacts are attributable to the historic fill and not indicative of a spill or release.

7. Groundwater samples collected during the RI were compared to the New York State 6NYCRR Part 703.5 Class GA Ambient Water Quality Standards (AWQS). The groundwater samples showed the following:

a. Buildings 3A and 3B:

- i. No pesticides were detected at concentrations above their AWQS.
- ii. VOCs including PCE (at 11 µg/L) and TCE (max. of 13 µg/L) were detected at concentrations exceeding their AWQS.
- iii. SVOCs including benzo(a)anthracene (max. of 0.54 µg/L), benzo(a)pyrene (max. of 0.56 µg/L), benzo(b)fluoranthene (max. of 0.77 µg/L), benzo(k)fluoranthene (max. of 0.2 µg/L), chrysene (max. of 0.45 µg/L), indeno(1,2,3-cd)pyrene (max. of 0.47 µg/L), and phenol (max. of 3.9 µg/L) were detected at concentrations exceeding their AWQS. Phenol was detected in the field blank sample (FB-020222) at a concentration of 2.4 µg/L, which is above the AWQS of 1 µg/L.
- iv. PCBs including aroclor 1248 (at 1.01 µg/L), aroclor 1254 (at 1.13 µg/L), aroclor 1260 (at 0.145 µg/L), and total PCBs (at 2.29 µg/L) were detected at concentrations exceeding their AWQS.
- v. Dissolved metals including magnesium (max. of 494,000 µg/L), manganese (at 1,124 µg/L), and sodium (max. of 4,410,000 µg/L) were detected at concentrations exceeding their AWQS.
- vi. Emerging contaminants including perfluorobutanoic acid (PFBA) (max. of 0.0131 µg/L), perfluoropentanoic acid (PFPeA) (max. of 0.0204 µg/L), perfluorobutanesulfonic acid (PFBS) (max. of 0.00727 µg/L), perfluorohexanoic acid (PFHxA) (max. of 0.0227 µg/L), perfluoroheptanoic acid (PFHpA) (max. of 0.0157 µg/L), perfluorohexanesulfonic acid (PFHxS) (max. of 0.0272 µg/L), PFOA (max. of 0.0409 µg/L), perfluoroheptanesulfonic acid (PFHpS) (max. of 0.00638 µg/L), PFNA (at 0.0026 µg/L), PFOS (max. of 0.038 µg/L), PFDA (at 0.00081 µg/L), PFTA (at 0.000508 µg/L), and 1,4-dioxane (max. of 0.425 µg/L) were detected in the groundwater samples.

b. Building 4:

- i. No VOCs, pesticides, or PCBs were detected at concentrations exceeding their AWQS.
- ii. SVOCs including benzo(a)anthracene (max. of 0.03 µg/L) and benzo(b)fluoranthene (at 0.02 µg/L), and phenol (max. of 3.3 µg/L) were detected at concentrations exceeding their AWQS . Phenol was detected in the field blank sample (FB-020222) at a concentration of 2.4 µg/L, which is above the AWQS of 1 µg/L.
- iii. The dissolved metal manganese (at 821.8 µg/L) was detected at a concentration above the AWQS.
- iv. Emerging contaminants including PFBA (max. of 0.00911 µg/L), PFPeA (max. of 0.0102 µg/L), PFBS (max. of 0.00417 µg/L), PFHxA (max. of 0.00625 µg/L), PFHpA (max. of 0.00399 µg/L), PFHxS (max. of 0.00294 µg/L), PFOA (max. of 0.0141 µg/L), PFNA (max. of 0.00142 µg/L), PFOS (max. of 0.00563 µg/L), PFDA (max. of 0.00128 µg/L), PFTA (max. of 0.000492 µg/L), and 1,4-dioxane (max. of 0.0392 µg/L) were detected in the groundwater samples.

c. Building 5:

- i. No VOCs, SVOCs, pesticides, or PCBs were detected at concentrations exceeding the AWQS.
- ii. Dissolved metals including magnesium (max. of 48,000 µg/L) and sodium (max. of 92,800 µg/L) were detected at concentrations above their AWQS.
- iii. Emerging contaminants including PFBA (max. of 0.0144 µg/L), PFPeA (max. of 0.0332 µg/L), PFBS (max. of 0.00704 µg/L), PFHxA (max. of 0.0272 µg/L), PFHpA (max. of 0.0129 µg/L), PFHxS (max. of 0.0097 µg/L), PFOA (max. of 0.0438 µg/L), PFHpS (at 0.000818 µg/L), PFNA (at 0.00161 µg/L), and PFOS (max. of 0.0352 µg/L). 1,4-Dioxane was not detected in the groundwater samples.

- d. The exceedances of the AWQS do not appear related to a spill or release and are more likely the result of the fill unit present in the area and typical background conditions in an urban environment.
8. Soil vapor samples collected during the RI were compared to the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006. The soil vapor samples showed the following:
- a. Buildings 3A and 3B:
 - i. Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of chlorinated VOCs (CVOCs).
 - ii. The total concentration of petroleum-related VOCs (BTEX) ranged from 2.449 $\mu\text{g}/\text{m}^3$ to 14.9 $\mu\text{g}/\text{m}^3$.
 - iii. CVOCs including 1,1,1-trichloroethane (ranging from 7.15 $\mu\text{g}/\text{m}^3$ to 606 $\mu\text{g}/\text{m}^3$), methylene chloride (at 2.48 $\mu\text{g}/\text{m}^3$), and TCE (at 23.2 $\mu\text{g}/\text{m}^3$) were detected in the soil vapor samples. Other CVOCs including carbon tetrachloride, PCE, and vinyl chloride were not detected in any of the soil vapor samples.
 - iv. Acetone was detected in the soil vapor samples ranging from 69.8 $\mu\text{g}/\text{m}^3$ to 3,470 $\mu\text{g}/\text{m}^3$. Acetone is a common laboratory contaminant.
 - b. Building 4:
 - i. Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of CVOCs.
 - ii. The total concentration of petroleum-related VOCs (BTEX) ranged from 2.52 $\mu\text{g}/\text{m}^3$ to 18.89 $\mu\text{g}/\text{m}^3$.
 - iii. The CVOc PCE (at 16.7 $\mu\text{g}/\text{m}^3$) was detected in the soil vapor samples. Other CVOcs including carbon tetrachloride, 1,1,1-TCA, methylene chloride, TCE, and vinyl chloride were not detected in any of the soil vapor samples.
 - iv. Acetone was detected in the soil vapor samples ranging from 656 $\mu\text{g}/\text{m}^3$ to 5,700 $\mu\text{g}/\text{m}^3$. Acetone is a common laboratory contaminant.

c. Building 5:

- i. Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of CVOCs.
- ii. The total concentration of petroleum-related VOCs (BTEX) ranged from 2.41 $\mu\text{g}/\text{m}^3$ to 4.64 $\mu\text{g}/\text{m}^3$.
- iii. CVOCs including 1,1,1-TCA (at 4.82 $\mu\text{g}/\text{m}^3$), methylene chloride (at 6.39 $\mu\text{g}/\text{m}^3$), and PCE (at 1.51 $\mu\text{g}/\text{m}^3$ and 10.4 $\mu\text{g}/\text{m}^3$) was detected in the soil vapor samples. Other CVOCs including carbon tetrachloride, TCE, and vinyl chloride were not detected in any of the soil vapor samples.
- iv. Acetone was detected in the soil vapor samples ranging from 765 $\mu\text{g}/\text{m}^3$ to 4,660 $\mu\text{g}/\text{m}^3$. Acetone is a common laboratory contaminant.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Astoria Cove Phase 1, LLC is working with the New York City Office of Environmental Remediation (NYCOER) in the “E” Designation Program to investigate and remediate an approximately 3.12-acre site located at 26-10 9th Street in the Astoria section of Queens, New York. Mixed commercial residential use is proposed for the property. The Remedial Investigation (RI) work was performed between January 24 and February 2, 2022. This Remedial Investigation Report (RIR) summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 26-10 9th Street in the Astoria section in Queens, New York and is identified as Block 906 Lots 1 & 5, Block 907 Lot 1, Block 908 Lot 12, and Block 909 Lot 35 on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 135,940-square feet and is bounded by the East River to the north, 27th Avenue to the south, 9th Street and eight residential buildings to the east, and two open lots, a commercial building, a mixed-use commercial and residential building, and a residential building to the west. An unimproved segment of 26th Avenue and an easement for 8th Street are also present on-Site. A map of the site boundary is shown in Figure 2. Currently, the Site is used for storage of equipment and materials by several contractors and contains two buildings, one of which is vacant and the other is used to store taxi vehicles, and each contain small partial basements that extend approximately 10 feet below ground surface (ft bgs), at an elevation of approximated 10 ft NAVD88.

The Site elevation varies, but the northern portion of the Site is generally flat and the southern end of the Site is at a higher elevation. The southern end of the Site is at an elevation of approximately 45 ft NAVD88 and the northern portion of the Site is at an elevation of approximately 20 ft NAVD88. As you move to the north across the Site and approach the East River the elevation drops to approximately 13 ft NAVD88.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of four new mixed-use buildings, designated Building 3A, Building 3B, Building 4 and Building 5. Buildings 3A and 3B will be located on Block 906 Lots 1 & 5 and a small portion of Block 907 Lot 1, which will contain the 8th Street Mews; Building 4 will be located on Block 909 and Lot 35; and Building 5 will be located on Block 908 and Lot 12. Layout of the proposed Site development is presented in Figure 3. The current zoning designation is R7-3 with a C2-4 overlay for Buildings 3A and 3B; R7A with a C2-4 overlay and R6B for Building 4; and R7A with a C2-4 overlay, R6B, and R6 for Building 5. The proposed use is consistent with existing zoning for the property.

Buildings 3A and 3B will consist of an 8-story and 26-story building, respectively, with a full cellar extending approximately 10 ft bgs on average, to an elevation of approximately 8.5 ft NAVD88, and has a combined footprint of approximately 40,000 square feet, a combined gross floor area of approximately 446,000 square feet, and a combined zoning floor area of approximately 344,000 square feet. The cellar will be used for parking and mechanical rooms; the first floor will be used for parking, commercial retail space, and residential space; the second and third floors will be used for parking and residential space; and floors 4 through 26 will be used for residential space. The excavation for the cellar will extend to an elevation of approximately 8.5 ft NAVD88, which is approximately 4.5 to 12.5 ft bgs. The open spaces to the south and east of the building will be finished with sidewalks and the area to the west will be developed as the 8th Street Mews. The open space to the north of the building will be developed as a public walkway.

Building 4 will consist of an eight-story building with a full cellar extending approximately 15 to 41 ft bgs, to an elevation of approximately 4 ft NAVD88, due to the rise in elevation on the southern portion of the Site and has a footprint of approximately 21,200 square feet, a gross floor area of approximately 127,000 square feet, and a zoning floor area of approximately 77,000 square feet. The cellar will be used for parking and mechanical rooms; the first floor will be used for mechanical rooms, commercial retail space, and residential space and floors two through eight will be used for residential space. The excavation for the cellar will extend to an elevation of approximately 4 ft NAVD88, which is approximately 16 to 42 ft bgs. The open space to the north of the building will be finished with a sidewalk and the area to the east will be developed as the 8th Street Mews.

Building 5 will consist of a six-story building with a full cellar on grade in the northern portion of the building and extending approximately 27 ft bgs in the southern portion of the building, to an elevation of approximately 20 ft NAVD88 in the northern portion of the building and approximately 18.5 ft NAVD88 in the southern portion of the building ,due to the rise in elevation on the southern portion of the Site. Building 5 will have a footprint of approximately 9,600 square feet, a gross floor area of approximately 76,000 square feet, and a zoning floor area of approximately 56,000 square feet. The cellar/first-floor will be used for mechanical rooms and residential space, and floors two through six will be used for residential space. The excavation for the cellar will extend to an elevation of approximately 20 ft NAVD88 in the northern portion of the building and approximately 18.5 ft NAVD88 in the southern portion of the building, which is approximately 0 to 28 ft bgs. The open space to the north of the building will be finished with a sidewalk and the area to the west will be developed as the 8th Street Mews. The open space to the southeast of the building will be a rear yard and the open space to the northeast of the building will remain undeveloped and will, at the option of the School Construction Authority, eventually be developed as a school during a later phase of development.

The unimproved portion of 26th Avenue will be improved and will connect to 9th Street and the 8th Street easement will be improved as the 8th Street Mews.

The development of Buildings 3A, 3B, 4, and 5 constitute the Phase I development plan for the Astoria Cove property. Phases 2 and 3 of development will occur on adjoining lots, which are also in the “E” Designation Program, at a later date.

1.3 Description of Surrounding Property

Surrounding property usage at the Site is primarily residential and commercial. Adjoining the Site to the west is a vacant lot used by contractors to store equipment and materials, a vacant lot being developed with an apparent residential building, a commercial building occupied by Goodwill, a mixed-use commercial and residential building, and residential buildings. Adjoining the Site to the south (across 27th Avenue) are residential buildings. Adjoining the Site to the east, including across 9th Street, are residential buildings. The East River adjoins the Site to the north. There are no sensitive receptors (i.e., schools, hospitals, day care facilities) within a 250-to-500-foot radius of the Site. Figure 4 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

The Site was developed for industrial use in the 1930s to 1940s and has always been used for industrial, manufacturing, or commercial purposes.

2.2 Previous Investigations

A Phase I Environmental Site Assessment (ESA) was prepared for the Site by G.C. Environmental, Inc. (GCE) and dated July 19, 2013. The Phase I ESA is included in Appendix A. The Phase I ESA identified 18 recognized environmental conditions (RECs) on-Site, 8 of which apply to the Building 3 A/B, 4, and 5 lots. The relevant RECs are included below:

- **GCE REC 1:** According to the Environmental Data Resources Report (EDR) dated July 16, 2013, Parcel 5 (the Building 5 lot) is included in “Underground Storage Tank (UST)” and “Historical Underground Storage Tank (HIST UST)” listings. The UST and HIST UST database listed the Parcel 5 property as “Superior Steel Studs Inc” under 4-57 26th Avenue, Astoria, New York. According to the New York State Department of Environmental Conservation (NYSDEC) Petroleum Bulk Storage (PBS) database Parcel 5 was listed as Superior Steel Studs Inc with PBS No. 2-305383, under 4-27 26th Avenue, Astoria, New York. No additional information was available for GCE’s review. According to UST & HIST UST database and NYSDEC PBS database, one 4,000-gallon fuel oil UST was administratively closed at the property in 1996. No additional documentation was available for GCE’s review. The Parcel 5 property status listed under UST and HIST UST database is a recognized environmental condition.
- **GCE REC 8:** Buildings C & D (located on the Building 3A and 3B lot) were occupied by “Tisdale Lumber & Coal Yard” and developed with a historical two-story building labeled “coal pockets” with an associated coal yard, a historical one-story building utilized for the storage of shingles, several historical one- and two-story lumber sheds and the remainder of the Site was utilized for the storage of lumber piles. The northern and eastern portions of the Site were occupied by Morey Machinery Co. Inc. and developed with the existing Buildings A, B, C, D and E, utilized for machinery and re-assembling purposes in 1948 to 1979. Buildings A, B, C, D and E and the southern portion of the Site was developed with a historical one-story manufacturing building and occupied by “Superior Steel Studs”. Taken together, these uses are a recognized environmental condition.
- **GCE REC 10:** Polychlorinated Biphenyls (PCBs) are a chemical component of dielectric fluids, coolants, or lubricating oils used in many types of equipment manufactured prior to 1979. Other equipment that may potentially contain PCBs includes hydraulically operated equipment, such as elevators, compaction equipment or manufacturing equipment. PCBs may have environmentally impacted the Site through historical usage of

coolants/manufacturing equipment and is in consequence considered to be a recognized environmental condition.

- **GCE REC 11:** According to the Sanborn Maps provided by EDR on July 16, 2013, Parcel 5 (the Building 5 lot) was used for storage of “Superior Studs Inc” and “Energex Wall Systems” manufacturing supplies. Parcel 6 (the Building 4 lot) was occupied for storage purposes. The 1948 sanborn map indicates that the adjacent property, to the eastern side of Parcel 6 property was occupied with “Metal Container Mfg”. GCE’s visual inspection revealed the presence of storage of manufacturing supplies on Parcel 5. Historical property usages such as storage of manufacturing supplies may have environmentally impacted the Parcels 5 and 6 in general and are thus considered to be a recognized environmental condition.
- **GCE REC 13:** According to the prior Phase I report performed by GCE dated 2006 (this Phase I report was not provided to GEI), there was one 5,000-gallon heating oil UST installed at the Site in 1942 (Building Department Records) and was abandoned c. 2000. Also, according to the prior Phase I report, the fill port associated with this abandoned UST was historically located within the asphalt paved land adjacent to the Building C in Parcel 2 (the Building 3A and 3B lot). GCE’s visual inspection did not reveal the presence of any fill port associated with this tank. No additional information was available for GCE’s review. Historical potential presence of this UST and its usage may have environmentally impacted the property in general. This is a recognized environmental condition.
- **GCE REC 16:** GCE’s visual inspection revealed the presence of oil stains on the floors in Building C (located on the Building 3A and 3B lot) associated with the historic use of machinery equipment. Poor housekeeping was evident throughout the buildings B, C and D. GCE’s visual inspection revealed the presence of leaked silica bags, paint buckets, empty 55-gallon drums, manufacturing supplies etc. throughout and surrounding these buildings. The poor housekeeping practices with evidence of historic leaks associated with the machinery and the observed current condition of the Site is a recognized environmental condition.
- **GCE REC 17:** GCE conducted a limited visual screening survey for the presence of Asbestos Containing Material (ACM) at the Site. GCE identified vinyl floor tiles in the areas of the office spaces located in Buildings F and piping insulation in Buildings A, B, C, F and G (Building C is located on the Building 3A and 3B lot). These materials are suspect of containing ACM. These materials were observed to be undamaged and in good condition at the time of inspection. It should be noted that this survey was limited to visual observations of accessible areas and that the scope of work for this assessment did not include the collection and laboratory analysis of bulk samples of undamaged suspect ACM. Additional suspect ACM may be present in inaccessible areas, including, but not limited to, roofs, pipe chases behind solid walls and ceilings, concealed floor coverings and the interior of water and sewer systems. According to Sanborn maps, aerial photographs and online building records, the current buildings on the Site were identified from at least 1931. With structures that were constructed prior to 1980, the presence of ACM is a possibility and the possible presence of ACM onsite is a recognized environmental condition.

- **GCE REC 18:** GCE conducted a limited visual screening survey for the presence of Lead Based Paint (LBP) at the Site. GCE observed white paint in good condition located in the office spaces in the on-site buildings. According to Sanborn maps, aerial photographs and online building records, the current buildings on the Site were identified from at least 1931. With structures that were constructed prior to 1980, the presence of LBP is a possibility and the possible presence of LBP onsite is a recognized environmental condition

GCE conducted a Limited Phase II ESA in December 2014 in response to RECs identified during the Phase I ESA. The Limited Phase II ESA is included in Appendix A. The Limited Phase II ESA was conducted on the eastern portion of the Building 5 lot, Block 908 Lot 12, where a school may be developed during a later phase of development. GCE conducted a geophysical survey, advanced five soil borings and collected 10 soil samples (from the 0 to 2 and 13 to 15 ft bgs intervals) for laboratory analysis and collected two groundwater samples and five soil vapor samples for laboratory analysis. The findings of the Limited Phase II ESA are summarized below:

- The geophysical survey identified an anomaly that could have been a former UST.
- No visual or olfactory impacts (e.g., staining, odors, etc.) were noted in the soil borings and no photoionization detector (PID) readings above background were recorded.
- The soil analytical results identified the metals chromium and mercury and the volatile organic compound (VOC) acetone at concentrations exceeding the Title 6 New York Codes, Rules and Regulations (6NYCRR) Part 375-6.8 Unrestricted Use Soil Cleanup Objectives (UUSCOs).
- The groundwater analytical results identified the metals aluminum (total and dissolved), barium (total), beryllium (total), chromium (total), copper (total), iron (total and dissolved), lead (total), magnesium (total and dissolved), manganese (total and dissolved), nickel (total), and sodium (total and dissolved), the semi-volatile organic compounds (SVOCs) benzo(a)anthracene and chrysene, and the inorganic compound chloride exceeded the NYSDEC Technical and Operations Guidance Series (TOGS) Ambient Water Quality Standards (AWQS).
- The soil vapor analytical results indicated that the detected concentrations of trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) would require mitigation according to the New York State Department of Health (NYSDOH) Soil Vapor Intrusion Guidance Decision Matrices. The detected concentrations of 1,1-dichloroethene (1,1-DCE), carbon tetrachloride, tetrachloroethene (PCE), methylene chloride, and vinyl chloride could also potentially require mitigation depending on the indoor air concentration of the associated compounds according to the NYSDOH matrices.

Based on the former industrial use of the site and the findings of the GCE Limited Phase II ESA, GEI Consultants, Inc., P.C. (GEI) collected additional subsurface soil samples and prepared an Additional Subsurface Sampling Report dated June 30, 2020, included in Appendix A. A total of 23 soil samples were collected from geotechnical soil borings across the

entire property, 13 of which were collected on-Site from the Buildings 3A, 3B, 4 and 5 lots. The findings of GEI's additional subsurface sampling are summarized below:

- Historic urban fill was found throughout the Site, with the maximum thicknesses of up to 18 feet and 23 feet identified in the elevated southern portion of the Site and the northern portion of the Site along the waterfront, respectively. Visual and olfactory impacts, including slight petroleum-like odors, soil staining, and PID readings up to 30 parts per million (ppm) were identified in limited intervals in the shallow soil on the elevated southern portion of the Site on the Building 4 and 5 lots. Petroleum-like odors, soil staining, and PID readings up to 363 ppm were identified in limited intervals in the soil along the waterfront on the Building 3 A/B lots.
- SVOCs were identified in four soil samples from the Building 3A and 3B lots at concentrations exceeding the 6NYCRR Part 375-6.8 Restricted Residential Use SCOs (RRUSCOs), Commercial Use SCOs (CUSCOs), or Industrial Use SCOs (IUSCOs). Metals, pesticides, total PCBs, and VOCs also exceeded the UUSCOs in soil samples on the Building 3A and 3B lot.
- Metals, pesticides, total PCBs, and VOCs exceeded the UUSCOs on the Building 4 lot.
- Metals exceeded the UUSCOs on the Building 5 lot.

2.3 Site Inspection

A Site inspection was performed by GEI representative George Holmes, P.G. on January 24, 2022. The Site contains two buildings on the northern portion of the property, one of which is vacant, and the other is used to store taxi vehicles. The vacant building contained various debris/rubbish. The exterior northern portion of the property was asphalt-paved and the elevated southern portion of the property was unpaved. The exterior portions of the property were used by various contractors to store equipment and materials. Minor areas of staining were observed on the asphalt-pavement and dumping, consisting of construction and demolition (C&D) debris and household rubbish, was observed throughout the Site. An apparent vent pipe for a tank was noted on the north side of the eastern building.

2.4 Areas of Concern

The Areas of Concern (AOCs) identified for this site include:

1. The past usage of the Site for industrial purposes.
2. The presence of historic fill material across the Site.
3. The possible presence of a UST on the northern side of the eastern building.

A map showing the location of the possible UST is presented in Figure 5.

3.0 PROJECT MANAGEMENT

3.1 PROJECT ORGANIZATION

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is George Holmes, P.G.

3.2 HEALTH AND SAFETY

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and Occupational Health and Safety Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements.

3.3 MATERIALS MANAGEMENT

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Astoria Cove Phase 1, LLC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Performed a geophysical survey across the entire Site to investigate for the presence of potential USTs, drums, etc. related to the former industrial use of the Site.
3. Installed 26 soil borings across the entire project Site and collected 52 soil samples for chemical analysis from the soil borings to evaluate soil quality.
4. Installed eight groundwater monitoring wells throughout the Site to establish groundwater flow and collected eight groundwater samples for chemical analysis to evaluate groundwater quality.
5. Installed 15 soil vapor probes around the Site perimeter and collected 15 samples for chemical analysis.

4.1 GEOPHYSICAL INVESTIGATION

A geophysical survey using an electromagnetic magnetometer (EM), utility locating instruments, and ground-penetrating radar (GPR) was conducted across the accessible portions of the Site. An anomaly potentially indicative of a UST was identified in the area of the fill pipe noted on the northern portion of the eastern building. No other anomalies indicative of USTs, drums, or other subsurface structures were identified on-Site.

4.2 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

Twenty-six soil borings (SB-100 through SB-125) were advanced across the Site at the locations shown on Figure 5, including nine soil borings (SB-100 through SB-108) on the Building 3A and 3B lots, six soil borings (SB-109 through SB-114) on the Building 4 lot, and 11 soil borings (SB-115 through SB-125) on the Building 5 lot. The soil borings were advanced using a Geoprobe[®] and a macro-core sampler. The soil boring locations were selected to gain representative soil quality information across the Site. The soil borings were advanced to

various depths based on the anticipated depth of excavation at each location and the soil was sampled continuously at five-foot intervals and logged. The soil was inspected for impacts (e.g., staining, odors, sheens, etc.) and screened for soil vapors using a PID.

Boring logs were prepared by a geologist and are attached in Appendix B. A table showing the various termination depths of each soil boring is included as Table 1.

Groundwater Monitoring Well Construction

Eight temporary groundwater monitoring wells (MW-1 through MW-6, MW-11, and MW-12) were installed across the Site at the locations shown on Figure 5, including four monitoring wells (MW-1 through MW-4) on the Building 3A and 3B lots, two monitoring wells (MW-5 and MW-6) on the Building 4 lot, and two monitoring wells (MW-11 and MW-12) on the Building 5 lot. An additional four groundwater monitoring wells (MW-7 through MW-10), two each on the Building 4 and 5 lots, were planned but could not be installed due to the drill rig encountering refusal numerous times prior to reaching the water table. The monitoring wells were constructed of 1-inch diameter PVC with 10 feet of 0.020-inch slotted screen. Each monitoring well was finished with a sand pack consisting of #2 Morie well grade gravel to approximately two feet above the screen, two feet of wetted bentonite pellets, and soil cuttings to the surface. The approximate depth of each monitoring well and the screen interval is included in Table 1. Upon completion of the groundwater sampling the monitoring well screens and casing were removed, and the boreholes were restored to pre-drilling conditions.

Soil Vapor Probe Installation

Fifteen soil vapor points (SV-1 through SV-15) were installed across the Site at the locations shown on Figure 5, including six soil vapor points (SV-1 through SV-6) on the Building 3A and 3B lots, four soil vapor points (SV-7 through SV-10) on the Building 4 lot, and five soil vapor points (SV-11 through SV-15) on the Building 5 lot. The soil vapor points were installed to various depths based on the anticipated depth of excavation at each location. The soil vapor points were installed using 1-inch diameter steel drill rods advanced using direct push drilling methods. The soil vapor points consisted of a prefabricated six-inch screened stainless steel vapor probe tip attached to teflon riser tubing. Once driven to depth, the rods were removed leaving only the tip and the tubing. The vapor point boreholes were backfilled with #2 Morie well grade gravel. A surface seal was placed using an impermeable clay seal installed within the

last 6 inches of the probe-hole annulus from surface grade level. The approximate depth of each soil vapor point is included in Table 1.

Survey

The top of casing elevation for each monitoring well was measured to the nearest 0.1-foot NAVD88 using a Global Positioning System (GPS). The top of casing elevations for each monitoring well is included in Table 2.

Water Level Measurement

Prior to collecting groundwater samples, the depth to water (DTW) and depth to bottom (DTB) of each monitoring well was measured using an electronic water level meter. Water level data is included in Table 2.

4.3 SAMPLE COLLECTION AND CHEMICAL ANALYSIS

Sampling performed as part of the field investigation was conducted for all Areas of Concern and considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Fifty-two soil samples were collected from the 26 soil borings for chemical analysis during this RI, including 18 soil samples from the Building 3A and 3B lots, 12 soil samples from the Building 4 lot, and 22 soil samples from the Building 5 lot. A surface soil sample (from the 0 to 2 ft bgs interval) and a subsurface soil sample from the two-foot interval beneath the proposed excavation depth were collected at each location. The proposed excavation depths vary across the Site due to changes in elevation and design differences for the three buildings. The soil sampling intervals are provided in Table 1. The subsurface soil sample from the SB-113

location was supposed to be collected from the 41 to 43 ft bgs interval, but the boring could not be advanced past 39 ft bgs due to encountering refusal. Therefore, the subsurface soil sample from the SB-113 location was collected from the 37 to 39 ft bgs interval. No visual impacts, odors, or PID readings above background were observed in any of the borings. Soil boring logs are provided in Appendix B.

All soil samples were collected in laboratory supplied jars, properly labeled with the boring number and the depth of the sample interval, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. Samples were transported to the laboratory under chain-of-custody procedures. Quality assurance/quality control (QA/QC) samples, including blind duplicates, matrix spike/matrix spike duplicates (MS/MSDs), and equipment rinseate blank samples, were collected at a frequency of 1 per 20 primary samples. A total of three sets of QA/QC samples were collected during the soil sampling. One trip blank sample was also included with each shipment of VOC samples to the laboratory.

All non-dedicated sampling equipment was decontaminated by scrubbing using Alconox followed by a clean potable water rinse.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 3. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Eight groundwater samples were collected from the eight temporary groundwater monitoring wells for chemical analysis during this RI. The groundwater samples were collected using low-flow sampling techniques with a peristaltic pump and dedicated tubing. Sampling was conducted in general accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010.

The groundwater samples were collected in laboratory supplied jars, properly labeled with the well identification, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. Samples were transported to the laboratory under chain-of-custody procedures. One set of QA/QC samples, including a blind duplicate, MS/MSD, and equipment rinseate blank sample was collected during

the groundwater sampling. One trip blank sample was also included with each shipment of VOC samples to the laboratory.

All non-dedicated sampling equipment was decontaminated by scrubbing using Alconox followed by a clean potable water rinse.

Groundwater sample collection data is reported in Table 4. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix B. Figure 5 shows the location of groundwater monitoring wells. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Fifteen soil vapor probes were installed and 15 soil vapor samples were collected for chemical analysis during this RI in accordance with the *NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006* (NYSDOH Guidance). The soil vapor samples were collected from the interval directly below the proposed excavation depth at each location. The soil vapor sample depths are provided in Table 1. Soil vapor samples were collected for a duration of 24 hours.

Samples were collected in certified clean 6-liter Summa canisters and were analyzed using United States Environmental Protection Agency (USEPA) Method TO-15. Flow rate for both purging and sampling did not exceed 0.2 liter per minute (L/min). One to three implant volumes were purged prior to the collection of any samples.

As part of the vapor intrusion evaluation, a tracer gas was used in accordance with NYSDOH protocols to serve as a QA/QC device to verify the integrity of the soil vapor probe seal. An inverted plastic pail was used to keep the tracer gas in contact with the probe during testing. A portable monitoring device was used to analyze a sample of soil vapor for the tracer gas prior to sampling. Helium was not present above 0.1% concentrations prior to, or following sample collection, verifying the integrity of the probe seals. Tracer monitoring was performed a second time following the sample collection to confirm the integrity of the probe seals.

Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 5. Soil vapor sampling logs are included in Appendix B. Methodologies used for soil vapor assessment conform to the NYSDOH Guidance.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Alpha Analytical, NYSDOH Environmental Laboratory Accreditation Program (ELAP) #11148
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Alpha Analytical NYSDOH ELAP #11148
Chemical Analytical Methods	Soil analytical methods: • Target Analyte List (TAL) Metals by USEPA Method 6010C (rev. 2007). • VOCs by USEPA Method 8260C (rev. 2006). • SVOCs by USEPA Method 8270D (rev. 2007). • Pesticides by USEPA Method 8081B (rev. 2000). • PCBs by USEPA Method 8082A (rev. 2000). • 1,4-Dioxane by USEPA Method 8270 SIM. • Per- and Polyfluoroalkyl Substances (PFAS) by LCMS/MS by USEPA Method 537.1. Groundwater analytical methods: • TAL Metals (total and dissolved) by EPA Method 6010C (rev. 2007). • VOCs by EPA Method 8260C (rev. 2006). • SVOCs by EPA Method 8270D (rev. 2007). • Pesticides by EPA Method 8081B (rev. 2000). • PCBs by EPA Method 8082A (rev. 2000). • 1,4-Dioxane by USEPA Method 8270 SIM. • PFAS by LCMS/MS by USEPA Method 537.1. Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 3, 4, and 5, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix C.

5.0 ENVIRONMENTAL EVALUATION

5.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Stratigraphy

In general, historic fill material overlies glacial deposits at the Site. The stratigraphy of the Site, from the surface down, generally consists of historic fill to a depth of 5 to 10 ft bgs underlain by glacial sands and gravel to the termination depths of the borings. The historic fill generally consisted of sand with silt and gravel containing brick and concrete fragments. No visual impacts (e.g., staining, odors, sheens, etc.) were identified and no PID readings above background were noted. Bedrock was not encountered, but during a previous geotechnical investigation was noted at depths of approximately 75 ft bgs to greater than 100 ft bgs. Soil boring logs are included as Appendix B.

Hydrogeology

Groundwater on the Site was encountered at approximately 15 to 20 ft bgs and at approximately 10 to 15 ft bgs near the water, at an elevation of approximately 1 to 4.5 ft NAVD88. Groundwater was not encountered on the elevated southern portion of the Site due to the drill rig encountering refusal. A table of water level data for all monitor wells is included in Table 2. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 6. Groundwater flow is from south to north towards the East River.

5.2 SOIL CHEMISTRY

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. The 52 soil samples collected as part of the RI were compared to the 6NYCRR Part 375-6.8 Unrestricted Use SCOs and Restricted Residential Use SCOs. A summary table of data for chemical analyses performed on soil samples is included in Table 3. Figure 7 shows the location and posts the values for soil/fill that exceed the Track 1 and Track 2 Soil Cleanup Objectives. The soil/fill samples showed the following:

Buildings 3A and 3B:

VOCs including acetone (max. of 0.12 mg/kg), tetrachloroethene (PCE) (max. of 38 mg/kg), and trichloroethene (TCE) (at 0.86 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these VOCs, tetrachloroethene was also detected at a concentration exceeding its Restricted Residential Use SCOs.

SVOCs including benzo(a)anthracene (max. of 3.4 mg/kg within SB-106 [3-5']), benzo(a)pyrene (max. of 2.9 mg/kg within SB-106 [3-5']), benzo(b)fluoranthene (max. of 4.2 mg/kg within SB-106 [3-5']), benzo(k)fluoranthene (at 1.2 mg/kg within SB-107 [0-2']), chrysene (max. of 3.1 mg/kg within SB-106 [3-5']), dibenzo(a,h)anthracene (at 0.38 mg/kg within SB-107 [0-2']), and indeno(1,2,3-cd)pyrene (max. of 2 mg/kg within SB-107 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations exceeding their Restricted Residential Use SCOs.

Pesticides including 4,4'-DDE (at 0.00562 mg/kg), 4,4'-DDD (at 0.0072 mg/kg), and 4,4'-DDT (at 0.0233 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. All maximum detections were located within SB-107 (0-2').

PCBs including aroclor 1248 (max. of 3.21 mg/kg within SB-106 [3-5']), aroclor 1254 (at 3.44 mg/kg within SB-106 [0-2']), aroclor 1260 (at 0.117 mg/kg within SB-1105 [0-2']), aroclor 1268 (at 1.22 mg/kg within SB-107 [0-2']), and total PCBs (max. of 3.44 mg/kg within SB-106 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these PCBs, aroclor 1248, aroclor 1254, aroclor 1268, and total PCBs were also detected at concentrations exceeding their Restricted Residential Use SCOs.

Metals including copper (max. of 156 mg/kg within SB-106 [3-5']), lead (max. of 168 mg/kg within SB-106 [3-5']), mercury (max. of 1.45 mg/kg within SB-106 [3-5']), nickel (at 140 mg/kg within SB-106 [3-5']), trivalent chromium (max. of 220 mg/kg within SB-106 [3-5']), and zinc (max. of 265 mg/kg within SB-105 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these metals, mercury and trivalent chromium were also detected at concentrations exceeding their Restricted Residential Use SCOs.

Emerging contaminants including perfluorooctanoic acid (PFOA) (at 0.000046 mg/kg), perfluorooctanesulfonic acid (PFOS) (at 0.00128 mg/kg), and perfluoroundecanoic acid

(PFUnA) (at 0.000059 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.

Building 4:

The VOC acetone (at 0.12 mg/kg within SB-112 [0-2']) was detected at a concentration exceeding the Unrestricted Use SCO.

SVOCs including benzo(a)anthracene (max. of 110 mg/kg), benzo(a)pyrene (max. of 100 mg/kg), benzo(b)fluoranthene (max. of 150 mg/kg), benzo(k)fluoranthene (max. of 12 mg/kg), chrysene (max. of 110 mg/kg), dibenzo(a,h)anthracene (max. of 5.3 mg/kg), dibenzofuran (at 8.4 mg/kg), fluoranthene (at 260 mg/kg), indeno(1,2,3-cd)pyrene (max. of 80 mg/kg), phenanthrene (at 160 mg/kg), and pyrene (at 200 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k) fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were also detected at concentrations exceeding their Restricted Residential SCOs. All maximum exceedances occurred within SB-113 (0-2').

Pesticides including 4,4'-DDE (at 0.0129 mg/kg within SB-113 [0-2']) and 4,4'-DDT (max. of 0.0093 mg/kg within SB-111 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs.

PCBs including aroclor 1268 (at 0.132 mg/kg) and total PCBs (at 0.171 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs within SB-111 (0-2').

Metals including copper (at 55.4 mg/kg within SB-111 [24-26']), trivalent chromium (at 39 mg/kg within SB-112 [17-19']), lead (max. of 333 mg/kg within SB-114 [0-2']), mercury (at 0.331 mg/kg within SB-114 [3-5']), and zinc (max. of 204 mg/kg within SB-114 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs.

Emerging contaminants including PFOA (max. of 0.000127 mg/kg), PFOS (0.00178 mg/kg), perfluorononanoic acid (PFNA) (at 0.00084 mg/kg), perfluorodecanoic acid (PFDA) (at 0.000114 mg/kg), n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) (at 0.00029 mg/kg), PFUnA (at 0.000116 mg/kg), perfluorododecanoic acid (PFDoA) (at 0.000122 mg/kg), and perfluorotetradecanoic acid (PFTA) (at 0.000215 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.

Building 5:

Pesticides and PCBs were not detected at concentrations above their Unrestricted Use SCOs in the soil samples.

The VOC acetone (max. of 0.061 mg/kg within SB-122 [0-2']) was detected at a concentration exceeding its Unrestricted Use SCO.

SVOCs including benzo(a)anthracene (max. of 1.3 mg/kg), benzo(a)pyrene (max. of 1.6 mg/kg), benzo(b)fluoranthene (max. of 2.4 mg/kg), chrysene (at 1.5 mg/kg), and indeno(1,2,3-cd)pyrene (max. of 1.3 mg/kg) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations exceeding their Restricted Residential Use SCOs. All maximum exceedances occurred within SB-115 (0-2').

Metals including copper (at 87.6 mg/kg within SB-120 [0-2']), trivalent chromium (max. of 240 mg/kg within DUP-03 [0-2']), lead (max. of 158 mg/kg within SB-120 [0-2']), mercury (at 0.401 mg/kg within SB-120 [0-2']), nickel (at 93.7 mg/kg within DUP-03 [0-2']), and zinc (max. of 182 mg/kg within SB-122 [2-4'] and SB-124 [0-2']) were detected at concentrations exceeding their Unrestricted Use SCOs. Of these metals, trivalent chromium was also detected at a concentration exceeding its Restricted Residential Use SCO.

Emerging contaminants including PFOA (max. of 0.000241 mg/kg), PFOS (at 0.000198 mg/kg), and PFTA (max. of 0.00007 mg/kg) were detected in the soil samples. 1,4-dioxane was not detected in any of the soil samples.

All of the soil samples with Restricted Residential Use SCO exceedances were collected from within the historic fill layer as well as the majority of the samples with Unrestricted Use SCO exceedances. No visual impacts (e.g., staining, odors, sheens, etc.) were identified and no PID readings above background were noted in the soil on-Site, indicating that the impacts are attributable to the historic fill and not indicative of a spill or release.

5.3 GROUNDWATER CHEMISTRY

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 4. Figure 8 shows the location and posts the values for

groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA Ambient Water Quality Standards (AWQS). The groundwater samples showed the following:

Buildings 3A and 3B:

No pesticides were detected at concentrations above their AWQS.

VOCs including PCE (at 11 µg/L within MW-2) and TCE (max. of 13 µg/L within MW-3 and DUP-01) were detected at concentrations exceeding their AWQS.

SVOCs including benzo(a)anthracene (max. of 0.54 µg/L within MW-2), benzo(a)pyrene (max. of 0.56 µg/L), benzo(b)fluoranthene (max. of 0.77 µg/L), benzo(k)fluoranthene (max. of 0.2 µg/L), chrysene (max. of 0.45 µg/L), indeno(1,2,3-cd)pyrene (max. of 0.47 µg/L), and phenol (max. of 3.9 µg/L) were detected at concentrations exceeding their AWQS within MW-2. Phenol was detected in the field blank sample (FB-020222) at a concentration of 2.4 µg/L, which is above the AWQS of 1 µg/L.

PCBs including aroclor 1248 (at 1.01 µg/L), aroclor 1254 (at 1.13 µg/L), aroclor 1260 (at 0.145 µg/L), and total PCBs (at 2.29 µg/L) were detected at concentrations exceeding their AWQS within MW-2.

Dissolved metals including magnesium (max. of 494,000 µg/L within MW-2), manganese (at 1,124 µg/L within MW-4), and sodium (max. of 4,410,000 µg/L within MW-2) were detected at concentrations exceeding their AWQS.

Emerging contaminants including perfluorobutanoic acid (PFBA) (max. of 0.0131 µg/L), perfluoropentanoic acid (PFPeA) (max. of 0.0204 µg/L), perfluorobutanesulfonic acid (PFBS) (max. of 0.00727 µg/L), perfluorohexanoic acid (PFHxA) (max. of 0.0227 µg/L), perfluoroheptanoic acid (PFHpA) (max. of 0.0157 µg/L), perfluorohexanesulfonic acid (PFHxS) (max. of 0.0272 µg/L), PFOA (max. of 0.0409 µg/L), perfluoroheptanesulfonic acid (PFHpS) (max. of 0.00638 µg/L), PFNA (at 0.0026 µg/L), PFOS (max. of 0.038 µg/L), PFDA (at 0.00081 µg/L), PFTA (at 0.000508 µg/L), and 1,4-dioxane (max. of 0.425 µg/L) were detected in the groundwater samples.

Building 4:

No VOCs, pesticides, or PCBs were detected at concentrations exceeding the AWQS.

SVOCs including benzo(a)anthracene (max. of 0.03 µg/L within MW-5), benzo(b)fluoranthene (at 0.02 µg/L within MW-5), and phenol (max. of 3.3 µg/L within MW-6) were detected at concentrations exceeding their AWQS. Phenol was detected in the field blank sample (FB-020222) at a concentration of 2.4 µg/L, which is above the AWQS of 1 µg/L.

The dissolved metal manganese (at 821.8 µg/L within MW-5) was detected at a concentration above the AWQS.

Emerging contaminants including PFBA (max. of 0.00911 µg/L), PFPeA (max. of 0.0102 µg/L), PFBS (max. of 0.00417 µg/L), PFHxA (max. of 0.00625 µg/L), PFHpA (max. of 0.00399 µg/L), PFHxS (max. of 0.00294 µg/L), PFOA (max. of 0.0141 µg/L), PFNA (max. of 0.00142 µg/L), PFOS (max. of 0.00563 µg/L), PFDA (max. of 0.00128 µg/L), PFTA (max. of 0.000492 µg/L), and 1,4-dioxane (max. of 0.0392 µg/L) were detected in the groundwater samples.

Building 5:

No VOCs, SVOCs, pesticides, or PCBs were detected at concentrations exceeding the AWQS.

Dissolved metals including magnesium (max. of 48,000 µg/L) and sodium (max. of 92,800 µg/L) were detected at concentrations above their AWQS within MW-11.

Emerging contaminants including PFBA (max. of 0.0144 µg/L), PFPeA (max. of 0.0332 µg/L), PFBS (max. of 0.00704 µg/L), PFHxA (max. of 0.0272 µg/L), PFHpA (max. of 0.0129 µg/L), PFHxS (max. of 0.0097 µg/L), PFOA (max. of 0.0438 µg/L), PFHpS (at 0.000818 µg/L), PFNA (at 0.00161 µg/L), and PFOS (max. of 0.0352 µg/L). 1,4-Dioxane was not detected in the groundwater samples.

The exceedances of the AWQS do not appear related to a spill or release and are more likely the result of the fill unit present in the area and typical background conditions in an urban environment.

5.4 SOIL VAPOR CHEMISTRY

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 5. Figure 9 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the RI were compared to the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006. The soil vapor samples showed the following:

Buildings 3A and 3B:

Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of chlorinated VOCs (CVOCs).

The total concentration of petroleum-related VOCs (BTEX) ranged from 2.449 $\mu\text{g}/\text{m}^3$ within SV-4 to 14.9 $\mu\text{g}/\text{m}^3$ within SV-1.

CVOCs including 1,1,1-trichloroethane (ranging from 7.15 $\mu\text{g}/\text{m}^3$ within SV-2 to 606 $\mu\text{g}/\text{m}^3$ within SV-3), methylene chloride (at 2.48 $\mu\text{g}/\text{m}^3$ within SV-4), and TCE (at 23.2 $\mu\text{g}/\text{m}^3$ within SV-5) were detected in the soil vapor samples. Other CVOCs including carbon tetrachloride, PCE, and vinyl chloride were not detected in any of the soil vapor samples.

Acetone was detected in the soil vapor samples ranging from 69.8 $\mu\text{g}/\text{m}^3$ within SV-3 to 3,470 $\mu\text{g}/\text{m}^3$ within SV-6. Acetone is a common laboratory contaminant.

Building 4:

Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of CVOCs.

The total concentration of petroleum-related VOCs (BTEX) ranged from 2.52 $\mu\text{g}/\text{m}^3$ within SV-9 to 18.89 $\mu\text{g}/\text{m}^3$ within SV-7.

The CVOC PCE (at 16.7 $\mu\text{g}/\text{m}^3$ within SV-7) was detected in the soil vapor samples. Other CVOCs including carbon tetrachloride, 1,1,1-TCA, methylene chloride, TCE, and vinyl chloride were not detected in any of the soil vapor samples.

Acetone was detected in the soil vapor samples ranging from 656 $\mu\text{g}/\text{m}^3$ within SV-9 to 5,700 $\mu\text{g}/\text{m}^3$ within SV-10. Acetone is a common laboratory contaminant.

Building 5:

Soil vapor results indicated low levels of petroleum-related VOCs and elevated levels of CVOCs.

The total concentration of petroleum-related VOCs (BTEX) ranged from 2.41 µg/m³ within SV-11 to 4.64 µg/m³ within SV-15.

CVOCs including 1,1,1-TCA (at 4.82 µg/m³ within SV-15), methylene chloride (at 6.39 µg/m³ within SV-13), and PCE (at 1.51 µg/m³ within SV-15 and 10.4 µg/m³ within SV-13) was detected in the soil vapor samples. Other CVOCs including carbon tetrachloride, TCE, and vinyl chloride were not detected in any of the soil vapor samples.

Acetone was detected in the soil vapor samples ranging from 765 µg/m³ within SV-15 to 4,660 µg/m³ within SV-14. Acetone is a common laboratory contaminant.

5.5 PRIOR ACTIVITY

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 IMPEDIMENTS TO REMEDIAL ACTION

There are no known impediments to remedial action at this property.

Tables

Soil Borings	Termination Depth (ft bgs)	Surface Soil Sample (ft bgs)	Subsurface Soil Sample (ft bgs)
SB-100	5	0-2	3-5
SB-101	15	0-2	11.5-13.5
SB-102	15	0-2	11.5-13.5
SB-103	15	0-2	3-5
SB-104	15	0-2	11.5-13.5
SB-105	11.5	0-2	9.5-11.5
SB-106	5	0-2	3-5
SB-107	10	0-2	6.5-8.5
SB-108	15	0-2	11.5-13.5
SB-109	25	0-2	17-19
SB-110	45	0-2	41-43
SB-111	26	0-2	24-26
SB-112	20	0-2	17-19
SB-113	39	0-2	37-39
SB-114	5	0-2	3-5
SB-115	5	0-2	3-5
SB-116	5	0-2	3-5
SB-117	34	0-2	29.5-31.5
SB-118	34	0-2	29.5-31.5
SB-119	30	0-2	26.5-28.5
SB-120	32	0-2	29.5-31.5
SB-121	5	0-2	2-4
SB-122	5	0-2	2-4
SB-123	5	0-2	3-5
SB-124	5	0-2	3-5
SB-125	5	0-2	3-5
Groundwater Samples	Total Depth (ft bgs)	Approximate Screen Interval (ft bgs)	
MW-1	25	15-25	
MW-2	20	10-20	
MW-3	20	10-20	
MW-4	30	20-30	
MW-5	25	15-25	
MW-6	30	20-30	
MW-11	25	15-25	
MW-12	30	20-30	
Soil Vapor Samples	Implant Depth (ft bgs)		
SV-1	5		
SV-2	11.5		
SV-3	11.5		
SV-4	5		
SV-5	6.5		
SV-6	11.5		
SV-7	17		
SV-8	17		
SV-9	39		
SV-10	5		
SV-11	5		
SV-12	29.5		
SV-13	29.5		
SV-14	2		
SV-15	5		

NOTES:
ft bgs - feet below ground surface

Table 2. Groundwater Elevations
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

Monitoring Wells	Date	Approximate Screen Interval (ft bgs)	Top of Casing Elevation (ft NAVD88)	Depth to Water (ft)	Depth to Bottom (ft)	Groundwater Elevation (ft NAVD88)
MW-1	2/1/2022	15-25	19.1	17.15	23.05	1.95
MW-2	2/2/2022	10-20	12.4	11.33	19.40	1.07
MW-3	2/2/2022	10-20	14.1	12.75	19.55	1.35
MW-4	2/1/2022	20-30	19.6	17.60	28.56	2.00
MW-5	2/2/2022	15-25	21.9	18.76	24.36	3.14
MW-6	2/2/2022	20-30	23.4	18.92	29.74	4.48
MW-11	2/1/2022	15-25	25.5	21.61	28.53	3.89
MW-12	2/1/2022	20-30	24.6	21.70	30.09	2.90

NOTES:

ft bgs - feet below ground surface

LOCATION					SB-100		SB-100		SB-101		DUP-02		SB-101		SB-102		SB-102		SB-103		SB-103		SB-103		
SAMPLE DEPTH (ft.)					0-2		3-5		0-2		0-2		11.5-13.5		0-2		11.5-13.5		0-2		0-2		3-5		
SAMPLING DATE					1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		
PARENT SAMPLE											SB-101(0-2)														
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																									
	2,4-D	94-75-7	~	~	mg/kg	0.178	U	0.184	U	0.178	U	0.181	U	0.199	U	0.177	U	0.175	U	0.18	U	-	-	0.173	U
	2,4,5-T	93-76-5	~	~	mg/kg	0.178	U	0.184	U	0.178	U	0.181	U	0.199	U	0.177	U	0.175	U	0.18	U	-	-	0.173	U
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	0.178	U	0.184	U	0.178	U	0.181	U	0.199	U	0.177	U	0.175	U	0.18	U	-	-	0.173	U
General Chemistry																									
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	11		11		7.5		8.1		34		17		25		14		-	-	13	
	Solids, Total	NONE	~	~	%	93		90.1		92.4		90.4		83.4		92.1		92.8		90.6		-	-	94.4	
	Cyanide, Total	57-12-5	27	27	mg/kg	1	U	1.1	U	1.1	U	1	U	1.1	U	1	U	0.98	U	1	U	-	-	0.98	U
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.86	U	0.888	U	0.866	U	0.885	U	0.959	U	0.869	U	0.862	U	0.883	U	-	-	0.847	U
Organochlorine Pesticides by GC																									
	Delta-BHC	319-86-8	0.04	100	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Lindane	58-89-9	0.1	1.3	mg/kg	0.000703	U	0.000731	U	0.000718	U	0.000716	U	0.00079	U	0.000703	U	0.000714	U	0.00732	U	-	-	0.00699	U
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	0.000703	U	0.000731	U	0.000718	U	0.000716	U	0.00079	U	0.000703	U	0.000714	U	0.00732	U	-	-	0.00699	U
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Heptachlor	76-44-8	0.042	2.1	mg/kg	0.000843	U	0.000877	U	0.000861	U	0.000859	U	0.000948	U	0.000844	U	0.000857	U	0.00879	U	-	-	0.00838	U
	Aldrin	309-00-2	0.005	0.097	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	0.00316	U	0.00329	U	0.00323	U	0.00322	U	0.00355	U	0.00316	U	0.00321	U	0.033	U	-	-	0.0314	U
	Endrin	72-20-8	0.014	11	mg/kg	0.000703	U	0.000731	U	0.000718	U	0.000716	U	0.00079	U	0.000703	U	0.000714	U	0.00732	U	-	-	0.00699	U
	Endrin aldehyde	7421-93-4	~	~	mg/kg	0.00211	U	0.00219	U	0.00215	U	0.00215	U	0.00237	U	0.00211	U	0.00214	U	0.022	U	-	-	0.021	U
	Endrin ketone	53494-70-5	~	~	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Dieldrin	60-57-1	0.005	0.2	mg/kg	0.00105	U	0.0011	U	0.00108	U	0.00107	U	0.00118	U	0.00105	U	0.00107	U	0.011	U	-	-	0.0105	U
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	0.00316	U	0.00329	U	0.00323	U	0.00322	U	0.00355	U	0.00316	U	0.00321	U	0.033	U	-	-	0.0314	U
	Endosulfan I	959-98-8	2.4	24	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Endosulfan II	33213-65-9	2.4	24	mg/kg	0.00169	U	0.00175	U	0.00172	U	0.00172	U	0.0019	U	0.00169	U	0.00171	U	0.0176	U	-	-	0.0168	U
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	0.000703	U	0.000731	U	0.000718	U	0.000716	U	0.00079	U	0.000703	U	0.000714	U	0.00732	U	-	-	0.00699	U
	Methoxychlor	72-43-5	~	~	mg/kg	0.00316	U	0.00329	U	0.00323	U	0.00322	U	0.00355	U	0.00316	U	0.00321	U	0.033	U	-	-	0.0314	U
	Toxaphene	8001-35-2	~	~	mg/kg	0.0316	U	0.0329	U	0.0323	U	0.0322	U	0.0355	U	0.0316	U	0.0321	U	0.33	U	-	-	0.314	U
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	0.00211	U	0.00219	U	0.00215	U	0.00215	U	0.00237	U	0.00211	U	0.00214	U	0.022	U	-	-	0.021	U
	trans-Chlordane	5103-74-2	~	~	mg/kg	0.00211	U	0.00219	U	0.00215	U	0.00215	U	0.00237	U	0.00211	U	0.00214	U	0.00649	J	-	-	0.021	U
	Chlordane	57-74-9	~	~	mg/kg	0.014	U	0.0146	U	0.0144	U	0.0143	U	0.0158	U	0.0141	U	0.0143	U	0.146	U	-	-	0.14	U
Polychlorinated Biphenyls by GC																									
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.0355	U	0.0394	U	0.0359	U	0.0342	U	0.0354	U	-	-	0.0335	U
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.0355	U	0.0394	U	0.0359	U	0.0342	U	0.0354	U	-	-	0.0335	U
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.0355	U	0.0394	U	0.0359	U	0.0342	U	0.0354	U	-	-	0.0335	U
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.0355	U	0.0394	U	0.0359	U	0.0342	U	0.0354	U	-	-	0.0335	U
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.0355	U	0.0394	U	0.047	P	0.012	JP	0.0354	U	-	-	0.0335	U
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.0342	U	0.0352	U	0.0343	U	0.00638	J	0.0394	U	0.0359	U	0.0342	U	0.0354	U	-	-	0.0335	U
	Aroclor 1ro																								

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-100		SB-100		SB-101		DUP-02		SB-101		SB-102		SB-102		SB-103		SB-103		SB-103	
SAMPLE DEPTH (ft.)						0-2		3-5		0-2		0-2		11.5-13.5		0-2		11.5-13.5		0-2		0-2		3-5	
SAMPLING DATE						1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022			
PARENT SAMPLE												SB-101(0-2)													
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.1	J	0.2	U	0.38		0.18	U	0.27		-	-	0.18	U
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.041	J	0.18	U	0.18	U	-	-	0.18	U
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Diethyl phthalate	84-66-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Dimethyl phthalate	131-11-3	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	0.46		0.18		0.16		0.2		0.12	U	0.045	J	0.11	U	0.42		-	-	0.47	
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	0.44		0.17		0.13	J	0.18		0.16	U	0.14	U	0.14	U	0.41		-	-	0.44	
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	0.52		0.21		0.16		0.24		0.12	U	0.1	U	0.11	U	0.54		-	-	0.56	
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	0.18		0.06	J	0.057	J	0.06	J	0.12	U	0.1	U	0.11	U	0.14		-	-	0.16	
	Chrysene	218-01-9	1	3.9	mg/kg	0.46		0.18		0.14		0.2		0.12	U	0.061	J	0.11	U	0.4		-	-	0.44	
	Acenaphthylene	208-96-8	100	100	mg/kg	0.033	J	0.15	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U	0.043	J	-	-	0.042	J
	Anthracene	120-12-7	100	100	mg/kg	0.15		0.049	J	0.069	J	0.067	J	0.12	U	0.1	U	0.11	U	0.13		-	-	0.17	
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	0.24		0.085	J	0.066	J	0.16		0.16	U	0.025	J	0.14	U	0.25		-	-	0.24	
	Fluorene	86-73-7	30	100	mg/kg	0.035	J	0.18	U	0.025	J	0.031	J	0.2	U	0.18	U	0.18	U	0.048	J	-	-	0.063	J
	Phenanthrene	85-01-8	100	100	mg/kg	0.63		0.26		0.32		0.39		0.12	U	0.078	J	0.11	U	0.44		-	-	0.52	
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	0.057	J	0.11	U	0.11	U	0.025	J	0.12	U	0.1	U	0.11	U	0.062	J	-	-	0.049	J
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	0.26		0.098	J	0.072	J	0.15		0.16	U	0.025	J	0.14	U	0.25		-	-	0.25	
	Pyrene	129-00-0	100	100	mg/kg	0.87		0.36		0.31		0.45		0.12	U	0.08	J	0.11	U	0.66		-	-	0.78	
	Biphenyl	92-52-4	~	~	mg/kg	0.4	U	0.42	U	0.4	U	0.41	U	0.45	U	0.4	U	0.4	U	0.42	U	-	-	0.4	U
	4-Chloroaniline	106-47-8	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	2-Nitroaniline	88-74-4	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	3-Nitroaniline	99-09-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	4-Nitroaniline	100-01-6	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Dibenzofuran	132-64-9	7	59	mg/kg	0.022	J	0.02	J	0.018	J	0.025	J	0.2	U	0.18	U	0.18	U	0.026	J	-	-	0.034	J
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	0.03	J	0.032	J	0.21	U	0.22	U	0.24	U	0.031	J	0.21	U	0.038	J	-	-	0.21	U
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	Acetophenone	98-86-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	0.11	U	0.11	U	0.11	U	0.11	U	0.12	U	0.1	U	0.11	U	0.11	U	-	-	0.1	U
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	2-Chlorophenol	95-57-8	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	0.16	U	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	-	-	0.16	U
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	-	-	0.18	U
	2-Nitrophenol	88-75-5	~	~	mg/kg	0.38	U	0.4	U	0.38	U	0.39	U	0.43	U	0.38	U	0.38	U	0.4	U	-	-	0.38	U
	4-Nitrophenol	100-02-7	~	~	mg/kg	0.25	U	0.26	U	0.25	U	0.25	U	0.28	U	0.25	U	0.25	U	0.26	U	-	-	0.25	U
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	0.85	U	0.88	U	0.85	U	0.86	U	0.95	U	0.85	U	0.85	U	0.88	U	-	-	0.84	U
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	0.46	U	0.48	U	0.46	U	0.47	U	0.51	U	0.46	U	0.46	U	0.48	U	-	-	0.46	U
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.14	U	0.15	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U	0.15	U	-	-	0.14	U
	Phenol	108-95-2	0.33	100	mg/kg	0.18	U	0.18	U	0.18	U	0.18	U	0.2	U	0.029	J	0.18	U	0.18	U	-	-	0.18	U
	2-Methylphenol	95-48-7	0.33	100</																					

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-100		SB-100		SB-101		DUP-02		SB-101		SB-102		SB-102		SB-103		SB-103		SB-103	
SAMPLE DEPTH (ft.)						0-2		3-5		0-2		0-2		11.5-13.5		0-2		11.5-13.5		0-2		0-2		3-5	
SAMPLING DATE						1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022	
PARENT SAMPLE												SB-101(0-2)													
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Sodium, Total	7440-23-5	~	~	mg/kg	192		170		295		499		214		255		144	J	186		-	-	110	J
	Thallium, Total	7440-28-0	~	~	mg/kg	1.63	U	1.68	U	1.64	U	1.66	U	1.8	U	1.66	U	1.63	U	1.67	U	-	-	1.61	U
	Vanadium, Total	7440-62-2	~	~	mg/kg	18.3		17.6		12.1		12.5		41.4		22.1		33.9		21.8		-	-	24.7	
	Zinc, Total	7440-66-6	109	10000	mg/kg	92.2		37.9		24.4		24		74.7		66.9		45.3		50.8		-	-	50.5	
Volatile Organics by EPA 5035																									
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.0053	U	0.0052	U	0.005	U	0.0056	U	0.006	U	0.0056	U	0.0059	U	0.32	U	-	-	0.31	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.00035	J	0.0018		0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	Chloroform	67-66-3	0.37	49	mg/kg	0.0016	U	0.0016	U	0.0015	U	0.0017	U	0.0018	U	0.0017	U	0.0018	U	0.098	U	-	-	0.092	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	38		37	E	34	
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.0043	U	0.0042	U	0.004	U	0.0045	U	0.0048	U	0.0044	U	0.0047	U	0.26	U	-	-	0.24	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.003		0.0028		0.0005	U	0.00056	U	0.0006	U	0.0046		0.0012		0.032	U	-	-	0.031	U
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	Bromoform	75-25-2	~	~	mg/kg	0.0043	U	0.0042	U	0.004	U	0.0045	U	0.0048	U	0.0044	U	0.0047	U	0.26	U	-	-	0.24	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00056	U	0.00059	U	0.032	U	-	-	0.031	U
	Benzene	71-43-2	0.06	4.8	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.00022	J	0.00059	U	0.032	U	-	-	0.031	U
	Toluene	108-88-3	0.7	100	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	Ethylbenzene	100-41-4	1	41	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.00063	J	0.0025		0.00035	J	0.065	U	-	-	0.061	U
	Chloromethane	74-87-3	~	~	mg/kg	0.0043	U	0.0042	U	0.004	U	0.0045	U	0.0048	U	0.0044	U	0.0047	U	0.26	U	-	-	0.24	U
	Bromomethane	74-83-9	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	Chloroethane	75-00-3	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.0011	U	0.0012	U	0.065	U	-	-	0.061	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0016	U	0.0016	U	0.0015	U	0.0017	U	0.0018	U	0.0017	U	0.0018	U	0.098	U	-	-	0.092	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.00053	U	0.00052	U	0.0005	U	0.00056	U	0.0006	U	0.0012		0.001		0.86		-	-	0.44	
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U						

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-100		SB-100		SB-101		DUP-02		SB-101		SB-102		SB-102		SB-103		SB-103		SB-103	
SAMPLE DEPTH (ft.)						0-2		3-5		0-2		0-2		11.5-13.5		0-2		11.5-13.5		0-2		0-2		3-5	
SAMPLING DATE						1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022	
PARENT SAMPLE												SB-101(0-2)													
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.00013	J	0.001	U	0.001	U	0.0011	U	0.0012	U	0.00016	J	0.0012	U	0.031	J	-	-	0.061	U
	Naphthalene	91-20-3	12	100	mg/kg	0.0043	U	0.0042	U	0.004	U	0.0045	U	0.0048	U	0.0013	J	0.0047	U	0.043	J	-	-	0.041	J
	Acrylonitrile	107-13-1	~	~	mg/kg	0.0043	U	0.0042	U	0.004	U	0.0045	U	0.0048	U	0.0044	U	0.0047	U	0.26	U	-	-	0.24	U
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.0011	U	0.001	U	0.001	U	0.0011	U	0.0012	U	0.00024	J	0.0012	U	0.065	U	-	-	0.061	U
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.00084	J	0.0024	U	0.13	U	-	-	0.12	U
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.00058	J	0.0021	U	0.002	U	0.0023	U	0.00086	J	0.0026		0.0005	J	0.13	U	-	-	0.12	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.086	U	0.083	U	0.081	U	0.09	U	0.097	U	0.089	U	0.095	U	5.2	U	-	-	4.9	U
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.00072	J	0.0021	U	0.002	U	0.0023	U	0.00024	J	0.0011	J	0.00029	J	0.02	J	-	-	0.12	U
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0012	J	0.0024	U	0.13	U	-	-	0.12	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.00022	J	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.00033	J	0.0024	U	0.013	J	-	-	0.12	U
	Ethyl ether	60-29-7	~	~	mg/kg	0.0021	U	0.0021	U	0.002	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	0.13	U	-	-	0.12	U
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.0053	U	0.0052	U	0.005	U	0.0056	U	0.006	U	0.0056	U	0.0059	U	0.32	U	-	-	0.31	U
Volatile Organics by EPA 5035 High																									
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-							

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-100		SB-100		SB-101		DUP-02		SB-101		SB-102		SB-102		SB-103		SB-103		SB-103		
SAMPLE DEPTH (ft.)						0-2		3-5		0-2		0-2		11.5-13.5		0-2		11.5-13.5		0-2		0-2		3-5		
SAMPLING DATE						1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		
PARENT SAMPLE												SB-101(0-2)														
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Chemistry																										
	Solids, Total	NONE	~	~	mg/kg	-	-	-	-	90.8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perfluorinated Alkyl Acids by Isotope Dilution																										
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	-	-	0.000481	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	-	-	0.00024	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-103		SB-104		SB-104		SB-105		SB-105		SB-106		SB-106		SB-106		SB-107		SB-107		
SAMPLE DEPTH (ft.)					3-5		0-2		11.5-13.5		0-2		9.5-11.5		0-2		3-5		3-5		0-2		0-2		
SAMPLING DATE					1/26/2022		1/25/2022		1/25/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		
PARENT SAMPLE																									
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																									
	2,4-D	94-75-7	~	~	mg/kg	-	-	0.182	U	0.186	U	0.193	U	0.191	U	0.179	U	0.188	U	-	-	0.189	U	-	-
	2,4,5-T	93-76-5	~	~	mg/kg	-	-	0.182	U	0.186	U	0.193	U	0.191	U	0.179	U	0.188	U	-	-	0.189	U	-	-
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	-	-	0.182	U	0.186	U	0.193	U	0.191	U	0.179	U	0.188	U	-	-	0.189	U	-	-
General Chemistry																									
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	-	-	13		19	J	13		13		29		220		-	-	15		-	-
	Solids, Total	NONE	~	~	%	-	-	89.2		89.1		85.7		85.9		91.4		88.7		-	-	88		-	-
	Cyanide, Total	57-12-5	27	27	mg/kg	-	-	1	U	1.1	U	0.71	J	1.1	U	1	U	1.2		-	-	1	U	-	-
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	-	-	0.897	U	0.269	J	0.933	U	0.931	U	0.875	U	0.902	U	-	-	0.909	U	-	-
Organochlorine Pesticides by GC																									
	Delta-BHC	319-86-8	0.04	100	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Lindane	58-89-9	0.1	1.3	mg/kg	-	-	0.00072	U	0.000714	U	0.000749	U	0.000742	U	0.00728	U	0.0074	U	-	-	0.000721	U	-	-
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	-	-	0.00072	U	0.000714	U	0.000749	U	0.000742	U	0.00728	U	0.0074	U	-	-	0.000721	U	-	-
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Heptachlor	76-44-8	0.042	2.1	mg/kg	-	-	0.000864	U	0.000857	U	0.000899	U	0.00089	U	0.00874	U	0.00888	U	-	-	0.000865	U	-	-
	Aldrin	309-00-2	0.005	0.097	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	-	-	0.00324	U	0.00321	U	0.00337	U	0.00334	U	0.0328	U	0.0333	U	-	-	0.00324	U	-	-
	Endrin	72-20-8	0.014	11	mg/kg	-	-	0.00072	U	0.000714	U	0.000749	U	0.000742	U	0.00728	U	0.0074	U	-	-	0.000721	U	-	-
	Endrin aldehyde	7421-93-4	~	~	mg/kg	-	-	0.00216	U	0.00214	U	0.00225	U	0.00222	U	0.0218	U	0.0222	U	-	-	0.00216	U	-	-
	Endrin ketone	53494-70-5	~	~	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Dieldrin	60-57-1	0.005	0.2	mg/kg	-	-	0.00108	U	0.00107	U	0.00112	U	0.00111	U	0.0109	U	0.0111	U	-	-	0.00108	U	-	-
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00562		-	-
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.0072	IP	-	-
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	-	-	0.00324	U	0.00321	U	0.00337	U	0.00334	U	0.0328	U	0.0333	U	-	-	0.0233		-	-
	Endosulfan I	959-98-8	2.4	24	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Endosulfan II	33213-65-9	2.4	24	mg/kg	-	-	0.00173	U	0.00171	U	0.0018	U	0.00178	U	0.0175	U	0.0178	U	-	-	0.00173	U	-	-
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	-	-	0.00072	U	0.000714	U	0.000749	U	0.000742	U	0.00728	U	0.0074	U	-	-	0.000721	U	-	-
	Methoxychlor	72-43-5	~	~	mg/kg	-	-	0.00324	U	0.00321	U	0.00337	U	0.00334	U	0.0328	U	0.0333	U	-	-	0.00324	U	-	-
	Toxaphene	8001-35-2	~	~	mg/kg	-	-	0.0324	U	0.0321	U	0.0337	U	0.0334	U	0.328	U	0.333	U	-	-	0.0324	U	-	-
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	-	-	0.00216	U	0.00214	U	0.00225	U	0.00222	U	0.0218	U	0.0222	U	-	-	0.00241		-	-
	trans-Chlordane	5103-74-2	~	~	mg/kg	-	-	0.00216	U	0.00214	U	0.00225	U	0.00222	U	0.0218	U	0.0222	U	-	-	0.00264	IP	-	-
	Chlordane	57-74-9	~	~	mg/kg	-	-	0.0144	U	0.0143	U	0.015	U	0.0148	U	0.146	U	0.148	U	-	-	0.0144	U	-	-
Polychlorinated Biphenyls by GC																									
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.574		0.0383	U	0.704	U	3.21		-	-	0.726	U	-	-
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	3.44		0.714	U	-	-	0.726	U	-	-
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.117	J	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0.714	U	-	-	0.726	U	-	-
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	-	-	0.0356	U	0.0357	U	0.186	U	0.0383	U	0.704	U	0							

LOCATION					SB-103	SB-104	SB-104	SB-105	SB-105	SB-106	SB-106	SB-106	SB-107	SB-107									
SAMPLE DEPTH (ft.)					3-5	0-2	11.5-13.5	0-2	9.5-11.5	0-2	3-5	3-5	0-2	0-2									
SAMPLING DATE					1/26/2022	1/25/2022	1/25/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022	1/26/2022									
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.18	U	0.18	U	-	-	0.18	U	-	-
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	-	-	0.18	U	0.18	U	0.091	J	0.19	U	0.3	J	-	-	0.1	J	-	-
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Diethyl phthalate	84-66-2	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Dimethyl phthalate	131-11-3	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	-	-	0.63		0.11	U	0.61		0.12	U	0.44		-	-	2.9		-	-
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	-	-	0.67		0.15	U	0.63		0.15	U	0.5		-	-	2.9		-	-
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	-	-	0.83		0.11	U	0.74		0.12	U	0.64		-	-	3.4		-	-
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	-	-	0.26		0.11	U	0.22		0.12	U	0.2		-	-	1.2		-	-
	Chrysene	218-01-9	1	3.9	mg/kg	-	-	0.64		0.11	U	0.63		0.12	U	0.47		-	-	2.9		-	-
	Acenaphthylene	208-96-8	100	100	mg/kg	-	-	0.053	J	0.15	U	0.05	J	0.15	U	0.074	J	-	-	0.52		-	-
	Anthracene	120-12-7	100	100	mg/kg	-	-	0.21		0.11	U	0.26		0.12	U	0.3		-	-	1.2		-	-
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	-	-	0.39		0.15	U	0.42		0.15	U	0.25		-	-	1.5		-	-
	Fluorene	86-73-7	30	100	mg/kg	-	-	0.12	J	0.18	U	0.097	J	0.19	U	0.41		-	-	0.65		-	-
	Phenanthrene	85-01-8	100	100	mg/kg	-	-	0.91		0.11	U	1.2		0.12	U	1.1		-	-	6.5		-	-
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	-	-	0.094	J	0.11	U	0.1	J	0.12	U	0.053	J	-	-	0.38		-	-
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	-	-	0.46		0.15	U	0.46		0.15	U	0.29		-	-	2		-	-
	Pyrene	129-00-0	100	100	mg/kg	-	-	1.2		0.11	U	1.2		0.12	U	1		-	-	5.8		-	-
	Biphenyl	92-52-4	~	~	mg/kg	-	-	0.42	U	0.42	U	0.44	U	0.44	U	0.037	J	-	-	0.035	J	-	-
	4-Chloroaniline	106-47-8	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2-Nitroaniline	88-74-4	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	3-Nitroaniline	99-09-2	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	4-Nitroaniline	100-01-6	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Dibenzofuran	132-64-9	7	59	mg/kg	-	-	0.066	J	0.18	U	0.063	J	0.19	U	0.22		-	-	0.36		-	-
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	-	-	0.078	J	0.22	U	0.045	J	0.23	U	0.44		-	-	0.059	J	-	-
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Acetophenone	98-86-2	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	-	-	0.11	U	0.11	U	0.12	U	0.12	U	0.11	U	-	-	0.11	U	-	-
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2-Chlorophenol	95-57-8	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	-	-	0.17	U	0.16	U	0.17	U	0.17	U	0.16	U	-	-	0.17	U	-	-
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2-Nitrophenol	88-75-5	~	~	mg/kg	-	-	0.4	U	0.4	U	0.42	U	0.42	U	0.39	U	-	-	0.4	U	-	-
	4-Nitrophenol	100-02-7	~	~	mg/kg	-	-	0.26	U	0.26	U	0.27	U	0.27	U	0.25	U	-	-	0.26	U	-	-
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	-	-	0.88	U	0.88	U	0.92	U	0.92	U	0.86	U	-	-	0.89	U	-	-
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	-	-	0.48	U	0.48	U	0.5	U	0.5	U	0.47	U	-	-	0.48	U	-	-
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	-	-	0.15	U	0.15	U	0.15	U	0.15	U	0.14	U	-	-	0.15	U	-	-
	Phenol	108-95-2	0.33	100	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	2-Methylphenol	95-48-7	0.33	100	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	-	-	0.26	U	0.26	U	0.28	U	0.28	U	0.041	J	-	-	0.27	U	-	-
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Benzoic Acid	65-85-0	~	~	mg/kg	-	-	0.6	U	0.59	U	0.62	U	0.62	U	0.58	U	-	-	0.6	U	-	-
	Benzyl Alcohol	100-51-6	~	~	mg/kg	-	-	0.18	U	0.18	U	0.19	U	0.19	U	0.18	U	-	-	0.18	U	-	-
	Carbazole	86-74-8	~	~																			

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-103		SB-104		SB-104		SB-105		SB-105		SB-106		SB-106		SB-106		SB-107		SB-107		
SAMPLE DEPTH (ft.)					3-5		0-2		11.5-13.5		0-2		9.5-11.5		0-2		3-5		3-5		0-2		0-2		
SAMPLING DATE					1/26/2022		1/25/2022		1/25/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		
PARENT SAMPLE																									
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
	Sodium, Total	7440-23-5	~	~	mg/kg	-	-	45.2	J	122	J	46.5	J	43.1	J	104	J	161	J	-	-	88.5	J	-	-
	Thallium, Total	7440-28-0	~	~	mg/kg	-	-	1.7	U	1.71	U	1.77	U	1.76	U	1.65	U	1.72	U	-	-	1.73	U	-	-
	Vanadium, Total	7440-62-2	~	~	mg/kg	-	-	17.9		27.9		14		18.2		24.1		27.4		-	-	23.1		-	-
	Zinc, Total	7440-66-6	109	10000	mg/kg	-	-	93.2		48.7		265		33.4		140		173		-	-	175		-	-
Volatile Organics by EPA 5035																									
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	0.0052	U	0.0057	U	0.0075	U	0.0054	U	0.0057	U	0.006	U	0.0052	U	0.0055	U	0.0062	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	0.00027	J	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	0.0016	U	0.0017	U	0.0022	U	0.0016	U	0.0017	U	0.0018	U	0.0016	U	0.0017	U	0.0019	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	31	E	0.00052	U	0.00057	U	0.0041		0.00054	U	0.0095		0.019		0.016		0.00027	J	0.00062	U
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	0.0042	U	0.0046	U	0.006	U	0.0043	U	0.0045	U	0.0048	U	0.0042	U	0.0044	U	0.005	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	0.0023		0.00057	U	0.00075	U	0.0015		0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	Bromoform	75-25-2	~	~	mg/kg	-	-	0.0042	U	0.0046	U	0.006	U	0.0043	U	0.0045	U	0.0048	U	0.0042	U	0.0044	U	0.005	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00057	U	0.0006	U	0.00052	U	0.00055	U	0.00062	U
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	0.00052	U	0.00057	U	0.00075	U	0.00054	U	0.00052	J	0.00044	J	0.00033	J	0.00079		0.00057	J
	Toluene	108-88-3	0.7	100	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.00023	J	0.00032	J	0.0011	U	0.0012	U
	Chloromethane	74-87-3	~	~	mg/kg	-	-	0.0042	U	0.0046	U	0.006	U	0.0043	U	0.0045	U	0.0048	U	0.0042	U	0.0044	U	0.005	U
	Bromomethane	74-83-9	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.001	J	0.00098	J	0.0011	U	0.0012	U
	Chloroethane	75-00-3	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.0012	U	0.001	U	0.0011	U	0.0012	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	0.0016	U	0.0017	U	0.0022	U	0.0031		0.0017	U	0.00023	J	0.00032	J	0.0017	U	0.0019	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	0.00052	U	0.00057	U	0.035		0.023		0.00066		0.017		0.015		0.0022		0.0017	
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.00034	J	0.00088	J	0.0022	U	0.0025	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0007	J	0.0024	U	0.00035	J	0.0022	U	0.0025	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	-</																			

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-103		SB-104		SB-104		SB-105		SB-105		SB-106		SB-106		SB-106		SB-107		SB-107	
SAMPLE DEPTH (ft.)						3-5		0-2		11.5-13.5		0-2		9.5-11.5		0-2		3-5		3-5		0-2		0-2	
SAMPLING DATE						1/26/2022		1/25/2022		1/25/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022	
PARENT SAMPLE																									
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.00053	J	0.0012		0.0014		0.0011	U	0.0012	U
	Naphthalene	91-20-3	12	100	mg/kg	-	-	0.0025	J	0.0046	U	0.006	U	0.0043	U	0.0019	J	0.017		0.022		0.005	U	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	0.0042	U	0.0046	U	0.006	U	0.0043	U	0.0045	U	0.0048	U	0.0042	U	0.0044	U	0.005	U
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	0.001	U	0.0011	U	0.0015	U	0.0011	U	0.0011	U	0.00096	J	0.0012		0.0011	U	0.0012	U
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.00053	J	0.0028		0.0014	J	0.0022	U	0.0025	U
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.00076	J	0.0058		0.003		0.0022	U	0.0025	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	0.083	U	0.092	U	0.12	U	0.086	U	0.091	U	0.095	U	0.084	U	0.089	U	0.1	U
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0099		0.0082		0.0023		0.0022	U	0.0025	U
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.00066	J	0.0036		0.0033		0.0022	U	0.0025	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.027		0.0032		0.0034		0.0022	U	0.0025	U
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	0.0021	U	0.0023	U	0.003	U	0.0022	U	0.0023	U	0.0024	U	0.0021	U	0.0022	U	0.0025	U
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	0.0052	U	0.0057	U	0.0075	U	0.0054	U	0.0057	U	0.006	U	0.0052	U	0.0055	U	0.0062	U
Volatile Organics by EPA 5035 High																									
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dichlorobenzene																								

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-103		SB-104		SB-104		SB-105		SB-105		SB-106		SB-106		SB-106		SB-107		SB-107	
SAMPLE DEPTH (ft.)						3-5		0-2		11.5-13.5		0-2		9.5-11.5		0-2		3-5		3-5		0-2		0-2	
SAMPLING DATE						1/26/2022		1/25/2022		1/25/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022		1/26/2022	
PARENT SAMPLE																									
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																									
	Solids, Total	NONE	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85.9	-	-	-
Perfluorinated Alkyl Acids by Isotope Dilution																									
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00027	U	-	-	-
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00027	U	-	-	-
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00027	U	-	-	-
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00046	JF	-	-	-
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00027	U	-	-	-
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00128		-	-	-
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00027	U	-	-	-
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000059	JF	-	-	-
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00054	U	-	-	-
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00133	J	-	-	-

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-107		SB-108		SB-108		SB-109		DUP-01		SB-109		SB-110		SB-110		SB-111		
SAMPLE DEPTH (ft.)					6.5-8.5		0-2		11.5-13.5		0-2		0-2		17-19		0-2		41-43		0-2		
SAMPLING DATE					1/26/2022		1/25/2022		1/25/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/24/2022		
PARENT SAMPLE													SB-109(0-2)										
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																							
	2,4-D	94-75-7	~	~	mg/kg	0.191	U	0.174	U	0.188	U	0.184	U	0.181	U	0.176	U	0.173	U	0.185	U	0.177	U
	2,4,5-T	93-76-5	~	~	mg/kg	0.191	U	0.174	U	0.188	U	0.184	U	0.181	U	0.176	U	0.173	U	0.185	U	0.177	U
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	0.191	U	0.174	U	0.188	U	0.184	U	0.181	U	0.176	U	0.173	U	0.185	U	0.177	U
General Chemistry																							
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	10		22	J	26	J	16		16		19		12		18		11	
	Solids, Total	NONE	~	~	%	85.7		93.9		86.7		89.5		90.9		94.4		95.6		87.4		92.2	
	Cyanide, Total	57-12-5	27	27	mg/kg	1.1	U	0.98	U	1.1	U	1.1	U	1.1	U	1	U	0.97	U	1.1	U	0.99	U
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.933	U	0.256	J	0.277	J	0.894	U	0.88	U	0.847	U	0.837	U	0.915	U	0.868	U
Organochlorine Pesticides by GC																							
	Delta-BHC	319-86-8	0.04	100	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Lindane	58-89-9	0.1	1.3	mg/kg	0.000744	U	0.000693	U	0.000751	U	0.000727	U	0.000721	U	0.000672	U	0.00338	U	0.000745	U	0.000694	U
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	0.000744	U	0.000693	U	0.000751	U	0.000727	U	0.000721	U	0.000672	U	0.00338	U	0.000745	U	0.000694	U
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Heptachlor	76-44-8	0.042	2.1	mg/kg	0.000892	U	0.000831	U	0.000901	U	0.000873	U	0.000866	U	0.000806	U	0.00405	U	0.000894	U	0.000833	U
	Aldrin	309-00-2	0.005	0.097	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	0.00335	U	0.00312	U	0.00338	U	0.00327	U	0.00325	U	0.00302	U	0.0152	U	0.00335	U	0.00312	U
	Endrin	72-20-8	0.014	11	mg/kg	0.000744	U	0.000693	U	0.000751	U	0.000727	U	0.000721	U	0.000672	U	0.00338	U	0.000745	U	0.000694	U
	Endrin aldehyde	7421-93-4	~	~	mg/kg	0.00223	U	0.00208	U	0.00225	U	0.00218	U	0.00216	U	0.00202	U	0.0101	U	0.00223	U	0.00208	U
	Endrin ketone	53494-70-5	~	~	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Dieldrin	60-57-1	0.005	0.2	mg/kg	0.00112	U	0.00104	U	0.00113	U	0.00109	U	0.00108	U	0.00101	U	0.00507	U	0.00112	U	0.00104	U
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00105	J	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00201	IP
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00113	JIP
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	0.00335	U	0.00312	U	0.00338	U	0.00327	U	0.00325	U	0.00302	U	0.0152	U	0.00335	U	0.0093	
	Endosulfan I	959-98-8	2.4	24	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Endosulfan II	33213-65-9	2.4	24	mg/kg	0.00178	U	0.00166	U	0.0018	U	0.00174	U	0.00173	U	0.00161	U	0.00811	U	0.00179	U	0.00167	U
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	0.000744	U	0.000693	U	0.000751	U	0.000727	U	0.000721	U	0.000672	U	0.00338	U	0.000745	U	0.000694	U
	Methoxychlor	72-43-5	~	~	mg/kg	0.00335	U	0.00312	U	0.00338	U	0.00327	U	0.00325	U	0.00302	U	0.0152	U	0.00335	U	0.00312	U
	Toxaphene	8001-35-2	~	~	mg/kg	0.0335	U	0.0312	U	0.0338	U	0.0327	U	0.0325	U	0.0302	U	0.152	U	0.0335	U	0.0312	U
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	0.00223	U	0.00208	U	0.00225	U	0.00146	J	0.00216	U	0.00202	U	0.00382	J	0.00223	U	0.00143	JIP
	trans-Chlordane	5103-74-2	~	~	mg/kg	0.00223	U	0.00208	U	0.00225	U	0.00178	J	0.00216	U	0.00202	U	0.00268	JIP	0.00223	U	0.00247	
	Chlordane	57-74-9	~	~	mg/kg	0.0149	U	0.0138	U	0.015	U	0.0119	J	0.0144	U	0.0134	U	0.0676	U	0.0149	U	0.0139	U
Polychlorinated Biphenyls by GC																							
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0392	
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.0378	U	0.052		0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0361	U	0.0362	U	0.0351	U	0.0342	U	0.0373	U	0.0358	U
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	0.0378	U	0.0337	U	0.0365	U	0.0327	J	0.0347	J	0.0351	U	0.0157	J	0.0373	U	0.132	
	PCBs, Total	1336-36-3	0.1																				

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-107	SB-108		SB-108	SB-109		DUP-01	SB-109	SB-110	SB-110	SB-111
SAMPLE DEPTH (ft.)					6.5-8.5	0-2		11.5-13.5	0-2		0-2	17-19	0-2	41-43	0-2
SAMPLING DATE					1/26/2022	1/25/2022		1/25/2022	1/24/2022		1/24/2022	1/24/2022	1/27/2022	1/27/2022	1/24/2022
PARENT SAMPLE											SB-109(0-2)				
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.85	U
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	0.19	U	0.13	J	0.19	U	0.18	U	0.72	J
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.85	U
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	0.19	U	5.4		0.19	U	0.18	U	0.85	U
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.33	J
	Diethyl phthalate	84-66-2	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.85	U
	Dimethyl phthalate	131-11-3	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.85	U
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	0.021	J	0.1	U	0.11	U	0.098	J	0.1	U
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	0.15	U	0.14	U	0.15	U	0.099	J	0.14	U
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	0.11	U	0.1	U	0.11	U	0.13		0.1	U
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	0.11	U	0.1	U	0.11	U	0.038	J	0.1	U
	Chrysene	218-01-9	1	3.9	mg/kg	0.11	U	0.1	U	0.11	U	0.098	J	0.1	U
	Acenaphthylene	208-96-8	100	100	mg/kg	0.15	U	0.14	U	0.15	U	0.14	U	0.13	J
	Anthracene	120-12-7	100	100	mg/kg	0.11	U	0.1	U	0.11	U	0.11	U	1	
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	0.15	U	0.14	U	0.15	U	0.062	J	0.053	J
	Fluorene	86-73-7	30	100	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.5	J
	Phenanthrene	85-01-8	100	100	mg/kg	0.11	U	0.025	J	0.11	U	0.092	J	0.1	U
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	0.15	U	0.14	U	0.15	U	0.062	J	0.14	U
	Pyrene	129-00-0	100	100	mg/kg	0.026	J	0.031	J	0.11	U	0.15		0.1	U
	Biphenyl	92-52-4	~	~	mg/kg	0.43	U	0.39	U	0.43	U	0.42	U	0.4	U
	4-Chloroaniline	106-47-8	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2-Nitroaniline	88-74-4	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	3-Nitroaniline	99-09-2	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	4-Nitroaniline	100-01-6	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	Dibenzofuran	132-64-9	7	59	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	0.23	U	0.21	U	0.23	U	0.22	U	0.21	J
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	Acetophenone	98-86-2	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	0.11	U	0.1	U	0.11	U	0.11	U	0.1	U
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2-Chlorophenol	95-57-8	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	0.17	U	0.16	U	0.17	U	0.16	U	0.16	U
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2-Nitrophenol	88-75-5	~	~	mg/kg	0.41	U	0.37	U	0.41	U	0.39	U	0.38	U
	4-Nitrophenol	100-02-7	~	~	mg/kg	0.26	U	0.24	U	0.27	U	0.25	U	0.25	U
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	0.91	U	0.83	U	0.91	U	0.87	U	0.84	U
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	0.49	U	0.45	U	0.49	U	0.47	U	0.46	U
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.15	U	0.14	U	0.15	U	0.14	U	0.14	U
	Phenol	108-95-2	0.33	100	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	2-Methylphenol	95-48-7	0.33	100	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	0.27	U	0.25	U	0.27	U	0.26	U	0.25	U
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	Benzoic Acid	65-85-0	~	~	mg/kg	0.61	U	0.56	U	0.62	U	0.59	U	0.57	U
	Benzyl Alcohol	100-51-6	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	Carbazole	86-74-8	~	~	mg/kg	0.19	U	0.17	U	0.19	U	0.18	U	0.18	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.028	U	0.026	U	0.028	U	0.027	U	0.026	U
Total Metals															
	Aluminum, Total	7429-90-5	~	~	mg/kg	5110		5300		9930		8330		5340	
	Antimony, Total	7440-36-0	~	~	mg/kg	4.42	U	4.03	U	4.36	U	4.21	U	4	U
	Arsenic, Total	7440-38-2	13	16	mg/kg	2.06		1.8		1.03		4.89		3.75	
	Barium, Total	7440-39-3	350	400	mg/kg	34		22.4		83.9		42.6		43.3	
	Beryllium, Total	7440-41-7	7.2	72	mg/kg	0.327	J	0.274	J	0.322	J	0.345	J	0.376	J
	Cadmium, Total	7440-43-9	2.5	4.3	mg/kg	0.159	J	0.363	J	0.462	J	0.371	J	0.326	J
	Calcium, Total	7440-70-2	~	~	mg/kg	5930		4780		1540		17500		7200	
	Chromium, Total	7440-47-3	~	~	mg/kg	10		22.8		25.8		16		15.8	
	Cobalt, Total	7440-48-4	~	~	mg/kg	3.98		4.86		10.8		6.94		6.13	
	Copper, Total	7440-50-8	50	270	mg/kg	21.2		13.5		23.8		15.3		15.4	
	Iron, Total	7439-89-6	~	~	mg/kg	8860		9510		18600		16800		15300	
	Lead, Total	7439-92-1	63	400	mg/kg	33.6		5.48		4.37		21.6		16.9	
	Magnesium, Total	7439-95-4	~	~	mg/kg	4080		2750		5800		3080		2960	
	Manganese, Total	7439-96-5	1600	2000	mg/kg	143		398		340		238		261	
	Mercury, Total	7439-97-6	0.18	0.81	mg/kg	0.077		0.084	U	0.087	U	0.137		0.078	U
	Nickel, Total	7440-02-0	30	310	mg/kg	8.04		11.6		18.9		11.4		11.8	
	Potassium, Total	7440-09-7	~	~	mg/kg	703		432		3390		1200		1080	
	Selenium, Total	7782-49-2	3.9	180	mg/kg	0.318	J	1.61	U	1.74	U	1.68	U	1.67	U
	Silver, Total	7440-22-4	2	180	mg/kg	0.884	U	0.807	U	0.872	U	0.843	U	0.835	U

LOCATION					SB-107		SB-108		SB-108		SB-109		DUP-01		SB-109		SB-110		SB-110		SB-111	
SAMPLE DEPTH (ft.)					6.5-8.5		0-2		11.5-13.5		0-2		0-2		17-19		0-2		41-43		0-2	
SAMPLING DATE					1/26/2022		1/25/2022		1/25/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/24/2022	
PARENT SAMPLE													SB-109(0-2)									
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	Sodium, Total	7440-23-5	~	~	mg/kg	53.6	J	62.2	J	226		234		152	J	153	J	139	J	142	J	
	Thallium, Total	7440-28-0	~	~	mg/kg	1.77	U	1.61	U	1.74	U	1.68	U	1.67	U	1.6	U	1.6	U	1.76	U	
	Vanadium, Total	7440-62-2	~	~	mg/kg	17.8		15		36.2		25.1		23.3		26.2		20.8		27.4		
	Zinc, Total	7440-66-6	109	10000	mg/kg	26		57.5		49.7		45.9		37.8		32.4		86.4		45.4		
Volatile Organics by EPA 5035																						
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.005	U	0.0057	U	0.005	U	0.0059	U	0.0062	U	0.0052	U	0.009	U	0.0058	U	
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Chloroform	67-66-3	0.37	49	mg/kg	0.0015	U	0.0017	U	0.0015	U	0.0018	U	0.0019	U	0.0016	U	0.0027	U	0.0017	U	
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.004	U	0.0046	U	0.004	U	0.0047	U	0.005	U	0.0042	U	0.0072	U	0.0046	U	
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.00032	J	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	Bromoform	75-25-2	~	~	mg/kg	0.004	U	0.0046	U	0.004	U	0.0047	U	0.005	U	0.0042	U	0.0072	U	0.0046	U	
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	Benzene	71-43-2	0.06	4.8	mg/kg	0.0005	U	0.00057	U	0.0005	U	0.00033	J	0.00035	J	0.00052	U	0.0009	U	0.00058	U	
	Toluene	108-88-3	0.7	100	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Ethylbenzene	100-41-4	1	41	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Chloromethane	74-87-3	~	~	mg/kg	0.004	U	0.0046	U	0.004	U	0.0047	U	0.005	U	0.0042	U	0.0072	U	0.0046	U	
	Bromomethane	74-83-9	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Chloroethane	75-00-3	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0015	U	0.0017	U	0.0015	U	0.0018	U	0.0019	U	0.0016	U	0.0027	U	0.0017	U	
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.005		0.00057	U	0.0005	U	0.00059	U	0.00062	U	0.00052	U	0.0009	U	0.00058	U	
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	p/m-Xylene	179601-23-1	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	o-Xylene	95-47-6	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	0.0005	J	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	0.0005	J	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Dibromomethane	74-95-3	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U	0.0023	U	
	Styrene	100-42-5	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U	0.0012	U	
	Dichlorodifluoromethane	75-71-8	~																			

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-107	SB-108		SB-108	SB-109		DUP-01	SB-109		SB-110		SB-110		SB-111	
SAMPLE DEPTH (ft.)					6.5-8.5	0-2		11.5-13.5	0-2		0-2	17-19		0-2		41-43		0-2	
SAMPLING DATE					1/26/2022	1/25/2022		1/25/2022	1/24/2022		1/24/2022	1/24/2022		1/27/2022		1/27/2022		1/24/2022	
PARENT SAMPLE											SB-109(0-2)								
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0012	U
	Naphthalene	91-20-3	12	100	mg/kg	0.004	U	0.0046	U	0.004	U	0.0047	U	0.005	U	0.0042	U	0.04	U
	Acrylonitrile	107-13-1	~	~	mg/kg	0.004	U	0.0046	U	0.004	U	0.0047	U	0.005	U	0.0042	U	0.0072	U
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.001	U	0.0011	U	0.001	U	0.0012	U	0.0012	U	0.001	U	0.0018	U
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.08	U	0.091	U	0.08	U	0.094	U	0.1	U	0.084	U	0.14	U
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.002	U	0.00086	J	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	Ethyl ether	60-29-7	~	~	mg/kg	0.002	U	0.0023	U	0.002	U	0.0024	U	0.0025	U	0.0021	U	0.0036	U
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.005	U	0.0057	U	0.005	U	0.0059	U	0.0062	U	0.0052	U	0.009	U
Volatile Organics by EPA 5035 High																			
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p/m-Xylene	179601-23-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	o-Xylene	95-47-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromomethane	74-95-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Styrene	100-42-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	75-71-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	67-64-1	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon disulfide	75-15-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-Butanone	78-93-3	0.12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vinyl acetate	108-05-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4-Methyl-2-pentanone	108-10-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,3-Trichloropropane	96-18-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-Hexanone	591-78-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromochloromethane	74-97-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2,2-Dichloropropane	594-20-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dibromoethane	106-93-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichloropropane	142-28-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-107	SB-108		SB-108	SB-109		DUP-01	SB-109	SB-110		SB-110	SB-111	
SAMPLE DEPTH (ft.)					6.5-8.5	0-2		11.5-13.5	0-2		0-2	17-19	0-2		41-43	0-2	
SAMPLING DATE					1/26/2022	1/25/2022		1/25/2022	1/24/2022		1/24/2022	1/24/2022	1/27/2022		1/27/2022	1/24/2022	
PARENT SAMPLE											SB-109(0-2)						
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																	
	Solids, Total	NONE	~	~	mg/kg	-	-	-	-	91.7	-	-	-	-	-	-	-
Perfluorinated Alkyl Acids by Isotope Dilution																	
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	-	-	0.000245	U	-	-	-	-	-	-
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	-	-	0.000245	U	-	-	-	-	-	-
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	-	-	0.000245	U	-	-	-	-	-	-
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	-	-	0.000044	JF	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	-	-	0.000245	U	-	-	-	-	-	-
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	-	-	0.00119		-	-	-	-	-	-
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	-	-	0.000245	U	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	-	-	0.00049	U	-	-	-	-	-	-
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	-	-	0.00123	J	-	-	-	-	-	-

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-111		SB-111		SB-112		SB-112		SB-112		SB-113		SB-113		SB-113		SB-114		
SAMPLE DEPTH (ft.)					0-2		24-26		0-2		0-2		17-19		0-2		0-2		37-39		0-2		
SAMPLING DATE					1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/27/2022		1/28/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																							
	2,4-D	94-75-7	~	~	mg/kg	-	-	0.177	U	0.177	U	-	-	0.181	U	0.176	U	-	-	0.177	U	0.179	U
	2,4,5-T	93-76-5	~	~	mg/kg	-	-	0.177	U	0.177	U	-	-	0.181	U	0.176	U	-	-	0.177	U	0.179	U
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	-	-	0.177	U	0.177	U	-	-	0.181	U	0.176	U	-	-	0.177	U	0.179	U
General Chemistry																							
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	-	-	25		17		-	-	39	J	15		-	-	18		20	
	Solids, Total	NONE	~	~	%	-	-	92.5		91.8		-	-	89.8		94		-	-	93.3		92.2	
	Cyanide, Total	57-12-5	27	27	mg/kg	-	-	1	U	1.1	U	-	-	1.1	U	0.46	J	-	-	1	U	1.1	U
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	-	-	0.865	U	0.871	U	-	-	0.301	J	0.851	U	-	-	0.857	U	0.868	U
Organochlorine Pesticides by GC																							
	Delta-BHC	319-86-8	0.04	100	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Lindane	58-89-9	0.1	1.3	mg/kg	-	-	0.000713	U	0.000706	U	-	-	0.000709	U	0.00345	U	-	-	0.000711	U	0.00716	U
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	-	-	0.000713	U	0.000706	U	-	-	0.000709	U	0.00345	U	-	-	0.000711	U	0.00716	U
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Heptachlor	76-44-8	0.042	2.1	mg/kg	-	-	0.000855	U	0.000847	U	-	-	0.000851	U	0.00414	U	-	-	0.000853	U	0.0086	U
	Aldrin	309-00-2	0.005	0.097	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	-	-	0.00321	U	0.00317	U	-	-	0.00319	U	0.0155	U	-	-	0.0032	U	0.0322	U
	Endrin	72-20-8	0.014	11	mg/kg	-	-	0.000713	U	0.000706	U	-	-	0.000709	U	0.00345	U	-	-	0.000711	U	0.00716	U
	Endrin aldehyde	7421-93-4	~	~	mg/kg	-	-	0.00214	U	0.00212	U	-	-	0.00213	U	0.0103	U	-	-	0.00213	U	0.0215	U
	Endrin ketone	53494-70-5	~	~	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Dieldrin	60-57-1	0.005	0.2	mg/kg	-	-	0.00107	U	0.00106	U	-	-	0.00106	U	0.00517	U	-	-	0.00107	U	0.0107	U
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.0129		-	-	0.0017	U	0.0172	U
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00322	JIP	-	-	0.0017	U	0.0172	U
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	-	-	0.00321	U	0.00317	U	-	-	0.00319	U	0.0155	U	-	-	0.0032	U	0.0322	U
	Endosulfan I	959-98-8	2.4	24	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Endosulfan II	33213-65-9	2.4	24	mg/kg	-	-	0.00171	U	0.00169	U	-	-	0.0017	U	0.00828	U	-	-	0.0017	U	0.0172	U
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	-	-	0.000713	U	0.000706	U	-	-	0.000709	U	0.00345	U	-	-	0.000711	U	0.00716	U
	Methoxychlor	72-43-5	~	~	mg/kg	-	-	0.00321	U	0.00317	U	-	-	0.00319	U	0.0155	U	-	-	0.0032	U	0.0322	U
	Toxaphene	8001-35-2	~	~	mg/kg	-	-	0.0321	U	0.0317	U	-	-	0.0319	U	0.155	U	-	-	0.032	U	0.322	U
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	-	-	0.00214	U	0.00212	U	-	-	0.00213	U	0.0103	U	-	-	0.00213	U	0.0215	U
	trans-Chlordane	5103-74-2	~	~	mg/kg	-	-	0.00214	U	0.00212	U	-	-	0.00213	U	0.0103	U	-	-	0.00213	U	0.0215	U
	Chlordane	57-74-9	~	~	mg/kg	-	-	0.0142	U	0.0141	U	-	-	0.0142	U	0.069	U	-	-	0.0142	U	0.143	U
Polychlorinated Biphenyls by GC																							
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	-	-	0.0355	U	0.00669	J	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.038	
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.0369		-	-	0.0342	U	0.0122	J
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	-	-	0.0355	U	0.0361	U	-	-	0.0359	U	0.034	U	-	-	0.0342	U	0.035	U
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	-	-	0.0355	U	0.00462	J	-	-	0.0359	U	0.0167	J	-	-	0.0342	U	0.0041	J
	PCBs, Total	1336-36-3	0.1	1	mg/kg	-	-	0.0355	U	0.0113	J	-	-	0.0359	U	0.0536	J	-	-	0.0342	U	0.0543	J
Semivolatle Organics by GC/MS																							
	Acenaphthene	83-32-9	20	100	mg/kg	-	-	0.14	U	0.14	U	-	-	0.14	U	12		-	-	0.14	U	0.16	J
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	0.88	U
	Hexachlorobenzene	118-74-1	0.33	1.2	mg/kg	-	-	0.11	U	0.11	U	-	-	0.11	U	0.53	U	-	-	0.1	U	0.53	U
	Bis(2-chloroethyl)ether	111-44-4	~	~	mg/kg	-	-	0.16	U	0.16	U	-	-	0.16	U	0.8	U	-					

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-111		SB-111		SB-112		SB-112		SB-112		SB-113		SB-113		SB-113		SB-114	
SAMPLE DEPTH (ft.)					0-2		24-26		0-2		0-2		17-19		0-2		0-2		37-39		0-2	
SAMPLING DATE					1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/27/2022		1/28/2022	
PARENT SAMPLE																						
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	-	-	0.18	U	0.32		-	-	0.18	U	0.8	J	-	-	0.094	J	
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	-	-	0.18	U	0.34		-	-	0.18	U	0.88	U	-	-	0.18	U	
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Diethyl phthalate	84-66-2	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Dimethyl phthalate	131-11-3	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	-	-	0.11	U	0.12		-	-	0.11	U	87	E	110		0.1	U	
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	-	-	0.14	U	0.11	J	-	-	0.14	U	74	E	100		0.14	U	
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	-	-	0.11	U	0.15		-	-	0.11	U	120	E	150		0.1	U	
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	-	-	0.11	U	0.048	J	-	-	0.11	U	12		-	-	0.1	U	
	Chrysene	218-01-9	1	3.9	mg/kg	-	-	0.11	U	0.16		-	-	0.11	U	62	E	110		0.1	U	
	Acenaphthylene	208-96-8	100	100	mg/kg	-	-	0.14	U	0.14	U	-	-	0.14	U	0.58	J	-	-	0.14	U	
	Anthracene	120-12-7	100	100	mg/kg	-	-	0.11	U	0.11	U	-	-	0.11	U	27		-	-	0.1	U	
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	-	-	0.14	U	0.068	J	-	-	0.14	U	50	E	73		0.14	U	
	Fluorene	86-73-7	30	100	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	14		-	-	0.18	U	
	Phenanthrene	85-01-8	100	100	mg/kg	-	-	0.11	U	0.1	J	-	-	0.11	U	84	E	160		0.1	U	
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	-	-	0.11	U	0.11	U	-	-	0.11	U	5.3		-	-	0.1	U	
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	-	-	0.14	U	0.074	J	-	-	0.14	U	62	E	80		0.14	U	
	Pyrene	129-00-0	100	100	mg/kg	-	-	0.11	U	0.2		-	-	0.11	U	90	E	200		0.1	U	
	Biphenyl	92-52-4	~	~	mg/kg	-	-	0.41	U	0.41	U	-	-	0.41	U	0.9	J	-	-	0.4	U	
	4-Chloroaniline	106-47-8	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2-Nitroaniline	88-74-4	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	3-Nitroaniline	99-09-2	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	4-Nitroaniline	100-01-6	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Dibenzofuran	132-64-9	7	59	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	8.4		-	-	0.18	U	
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	-	-	0.21	U	0.22	U	-	-	0.22	U	2.6		-	-	0.21	U	
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Acetophenone	98-86-2	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	-	-	0.11	U	0.11	U	-	-	0.11	U	0.53	U	-	-	0.1	U	
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2-Chlorophenol	95-57-8	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	-	-	0.16	U	0.16	U	-	-	0.16	U	0.8	U	-	-	0.16	U	
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2-Nitrophenol	88-75-5	~	~	mg/kg	-	-	0.39	U	0.39	U	-	-	0.39	U	1.9	U	-	-	0.38	U	
	4-Nitrophenol	100-02-7	~	~	mg/kg	-	-	0.25	U	0.25	U	-	-	0.25	U	1.2	U	-	-	0.24	U	
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	-	-	0.86	U	0.86	U	-	-	0.87	U	4.2	U	-	-	0.84	U	
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	-	-	0.46	U	0.47	U	-	-	0.47	U	2.3	U	-	-	0.46	U	
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	-	-	0.14	U	0.14	U	-	-	0.14	U	0.71	U	-	-	0.14	U	
	Phenol	108-95-2	0.33	100	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	2-Methylphenol	95-48-7	0.33	100	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	-	-	0.26	U	0.26	U	-	-	0.26	U	0.17	J	-	-	0.25	U	
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	0.88	U	-	-	0.18	U	
	Benzoic Acid	65-85-0	~	~	mg/kg	-	-	0.58	U	0.58	U	-	-	0.58	U	2.9	U	-	-	0.57	U	
	Benzyl Alcohol	100-51-6	~	~	mg/kg	-	-	0.18	U	30		32	E	0.18	U	0.88	U	-	-	0.18	U	
	Carbazole	86-74-8	~	~	mg/kg	-	-	0.18	U	0.18	U	-	-	0.18	U	17		-	-	0.18	U	
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	0.027	U	0.027	U	-	-	0.027	U	0.13	U	-	-	0.026	U	
Total Metals																						
	Aluminum, Total	7429-90-5	~	~	mg/kg	-	-	7520		7260		-	-	8250		7600		-	-	6760		
	Antimony, Total	7440-36-0	~	~	mg/kg	-	-	4.09	U	4.1	U	-	-	4.21	U	4.25	U	-	-	4.27	U	
	Arsenic, Total	7440-38-2	13	16	mg/kg	-	-	0.859		1.57		-	-	0.808	J	2.86		-	-	0.513	J	
	Barium, Total	7440-39-3	350	400	mg/kg	-	-	94.5		38.1		-	-	77.5		104		-	-	115		
	Beryllium, Total	7440-41-7	7.2	72	mg/kg	-	-	0.09	J	0.246	J	-	-									

LOCATION					SB-111		SB-111		SB-112		SB-112		SB-112		SB-113		SB-113		SB-113		SB-114		
SAMPLE DEPTH (ft.)					0-2		24-26		0-2		0-2		17-19		0-2		0-2		37-39		0-2		
SAMPLING DATE					1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/27/2022		1/28/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
	Sodium, Total	7440-23-5	~	~	mg/kg	-	-	189		209		-	-	170		227		-	-	112	J	339	
	Thallium, Total	7440-28-0	~	~	mg/kg	-	-	1.64	U	1.64	U	-	-	1.68	U	1.7	U	-	-	1.71	U	1.66	U
	Vanadium, Total	7440-62-2	~	~	mg/kg	-	-	35.8		23.6		-	-	33.2		29.9		-	-	23.5		30.7	
	Zinc, Total	7440-66-6	109	10000	mg/kg	-	-	43.6		61.2		-	-	34.5		107		-	-	37.3		204	
Volatile Organics by EPA 5035																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.006	U	0.0052	U	0.006	U	-	-	0.0051	U	0.0078	U	0.0073	U	0.0054	U	0.0082	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	Chloroform	67-66-3	0.37	49	mg/kg	0.0018	U	0.0016	U	0.0018	U	-	-	0.0015	U	0.0024	U	0.0022	U	0.0016	U	0.0025	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00038	J	0.00044	J	0.00054	U	0.00082	U
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.0048	U	0.0042	U	0.0048	U	-	-	0.004	U	0.0063	U	0.0058	U	0.0043	U	0.0066	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	Bromoform	75-25-2	~	~	mg/kg	0.0048	U	0.0042	U	0.0048	U	-	-	0.004	U	0.0063	U	0.0058	U	0.0043	U	0.0066	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.0006	U	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078	U	0.00073	U	0.00054	U	0.00082	U
	Benzene	71-43-2	0.06	4.8	mg/kg	0.00023	J	0.00052	U	0.00022	J	-	-	0.00051	U	0.00026	J	0.00073	U	0.00054	U	0.00082	U
	Toluene	108-88-3	0.7	100	mg/kg	0.00079	J	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	Ethylbenzene	100-41-4	1	41	mg/kg	0.00032	J	0.001	U	0.007		-	-	0.00014	J	0.0006	J	0.00057	J	0.0011	U	0.0016	U
	Chloromethane	74-87-3	~	~	mg/kg	0.0048	U	0.0042	U	0.0048	U	-	-	0.004	U	0.0063	U	0.0058	U	0.0043	U	0.0066	U
	Bromomethane	74-83-9	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	Chloroethane	75-00-3	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0018	U	0.0016	U	0.0018	U	-	-	0.0015	U	0.0024	U	0.0022	U	0.0016	U	0.0025	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.00044	J	0.00052	U	0.0006	U	-	-	0.00051	U	0.00078		0.00071	J	0.00054	U	0.00082	U
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0004	J	0.00038	J	0.0022	U	0.0033	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	p/m-Xylene	179601-23-1	~	~	mg/kg	0.00067	J	0.0021	U	0.047		-	-	0.00064	J	0.00089	J	0.00085	J	0.0022	U	0.0033	U
	o-Xylene	95-47-6	~	~	mg/kg	0.0012	U	0.001	U	0.022		-	-	0.001	U	0.0005	J	0.00045	J	0.0011	U	0.0016	U
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	0.00067	J	0.001	U	0.069		-	-	0.00064	J	0.0014	J	0.0013	J	0.0011	U	0.0016	U
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.0016							

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-111		SB-111		SB-112		SB-112		SB-112		SB-113		SB-113		SB-113		SB-114	
SAMPLE DEPTH (ft.)						0-2		24-26		0-2		0-2		17-19		0-2		0-2		37-39		0-2	
SAMPLING DATE						1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/27/2022		1/28/2022	
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.0012	U	0.001	U	0.0012	U	-	-	0.001	U	0.00026	J	0.00021	J	0.0011	U	0.0016	U
	Naphthalene	91-20-3	12	100	mg/kg	0.0048	U	0.0042	U	0.0048	U	-	-	0.004	U	1.6	E	1.4	E	0.0021	J	0.0017	J
	Acrylonitrile	107-13-1	~	~	mg/kg	0.0048	U	0.0042	U	0.0048	U	-	-	0.004	U	0.0063	U	0.0058	U	0.0043	U	0.0066	U
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.0012	U	0.001	U	0.00039	J	-	-	0.001	U	0.0016	U	0.0015	U	0.0011	U	0.0016	U
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.0024	U	0.0021	U	0.00079	J	-	-	0.002	U	0.001	J	0.00088	J	0.0022	U	0.0033	U
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.0024	U	0.0021	U	0.0029		-	-	0.002	U	0.0022	J	0.0019	J	0.0022	U	0.0033	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.096	U	0.083	U	0.096	U	-	-	0.081	U	0.12	U	0.12	U	0.087	U	0.13	U
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.0024	U	0.0021	U	0.00047	J	-	-	0.002	U	0.0018	J	0.0015	J	0.0022	U	0.00032	J
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.0024	U	0.0021	U	0.0018	J	-	-	0.002	U	0.0016	J	0.0014	J	0.0022	U	0.0033	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.00072	J	0.0006	J	0.0022	U	0.0033	U
	Ethyl ether	60-29-7	~	~	mg/kg	0.0024	U	0.0021	U	0.0024	U	-	-	0.002	U	0.0031	U	0.0029	U	0.0022	U	0.0033	U
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.006	U	0.0052	U	0.006	U	-	-	0.0051	U	0.0078	U	0.0073	U	0.0054	U	0.0082	U
Volatile Organics by EPA 5035 High																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.46	U	-	-	-	-	-	-
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	0.14	U	-	-	-	-	-	-
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.37	U	-	-	-	-	-	-
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.37	U	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.37	U	-	-	-	-	-	-
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.14	U	-	-	-	-	-	-
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	p/m-Xylene	179601-23-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	o-Xylene	95-47-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-					

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-111		SB-111		SB-112		SB-112		SB-112		SB-113		SB-113		SB-113		SB-114	
SAMPLE DEPTH (ft.)						0-2		24-26		0-2		0-2		17-19		0-2		0-2		37-39		0-2	
SAMPLING DATE						1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/27/2022		1/27/2022		1/27/2022		1/28/2022	
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.046	U	-	-	-	-	-	-
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.28	U	-	-	-	-	-	-
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.37	U	-	-	-	-	-	-
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	12		-	-	-	-	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.37	U	-	-	-	-	-	-
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	0.092	U	-	-	-	-	-	-
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	~	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	7.4	U	-	-	-	-	-	-
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.18	U	-	-	-	-	-	-
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.46	U	-	-	-	-	-	-
General Chemistry																							
	Solids, Total	NONE	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	92.5		-	-	-	-	-	-
Perfluorinated Alkyl Acids by Isotope Dilution																							
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00026	U	-	-	-	-	-	-
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00026	U	-	-	-	-	-	-
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00026	U	-	-	-	-	-	-
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000127	J	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	-	-	~	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000084	J	-	-	-	-	-	-
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00178	F	-	-	-	-	-	-
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000114	J	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000291	J	-	-	-	-	-	-
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000116	J	-	-	-	-	-	-
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000122	J	-	-	-	-	-	-
	Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000521	U	-	-	-	-	-	-
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000215	J	-	-	-	-	-	-
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00191	J	-	-	-	-	-	-

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-114		SB-115		SB-115		SB-116		SB-116		SB-117		DUP-03		SB-117		SB-118		
SAMPLE DEPTH (ft.)					3-5		0-2		3-5		0-2		3-5		0-2		0-2		29.5-31.5		0-2		
SAMPLING DATE					1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		
PARENT SAMPLE																	SB-117(0-2)						
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																							
	2,4-D	94-75-7	~	~	mg/kg	0.22	U	0.172	U	0.173	U	0.176	U	0.174	U	0.181	U	0.176	U	0.17	U	0.183	U
	2,4,5-T	93-76-5	~	~	mg/kg	0.22	U	0.172	U	0.173	U	0.176	U	0.174	U	0.181	U	0.176	U	0.17	U	0.183	U
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	0.22	U	0.172	U	0.173	U	0.176	U	0.174	U	0.181	U	0.176	U	0.17	U	0.183	U
General Chemistry																							
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	17	J	12		15		32	J	28		66		240		6.3		16	
	Solids, Total	NONE	~	~	%	75.2		94.3		94.8		92.9		95.9		91.4		92.2		95.9		90.6	
	Cyanide, Total	57-12-5	27	27	mg/kg	1.3	U	0.97	U	0.97	U	1	U	1	U	1	U	1.1	U	1	U	1	U
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.465	J	0.848	U	0.844	U	0.312	J	0.834	U	0.875	U	0.868	U	0.834	U	0.883	U
Organochlorine Pesticides by GC																							
	Delta-BHC	319-86-8	0.04	100	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Lindane	58-89-9	0.1	1.3	mg/kg	0.000862	U	0.00695	U	0.000685	U	0.000697	U	0.000681	U	0.000707	U	0.0007	U	0.000683	U	0.000724	U
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	0.000862	U	0.00695	U	0.000685	U	0.000697	U	0.000681	U	0.000707	U	0.0007	U	0.000683	U	0.000724	U
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Heptachlor	76-44-8	0.042	2.1	mg/kg	0.00103	U	0.00834	U	0.000822	U	0.000836	U	0.000817	U	0.000848	U	0.00084	U	0.00082	U	0.000869	U
	Aldrin	309-00-2	0.005	0.097	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	0.00388	U	0.0313	U	0.00308	U	0.00314	U	0.00306	U	0.00318	U	0.00315	U	0.00307	U	0.00326	U
	Endrin	72-20-8	0.014	11	mg/kg	0.000862	U	0.00695	U	0.000685	U	0.000697	U	0.000681	U	0.000707	U	0.0007	U	0.000683	U	0.000724	U
	Endrin aldehyde	7421-93-4	~	~	mg/kg	0.00258	U	0.0209	U	0.00205	U	0.00209	U	0.00204	U	0.00212	U	0.0021	U	0.00205	U	0.00217	U
	Endrin ketone	53494-70-5	~	~	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Dieldrin	60-57-1	0.005	0.2	mg/kg	0.00129	U	0.0104	U	0.00103	U	0.00104	U	0.00102	U	0.00106	U	0.00105	U	0.00102	U	0.00109	U
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	0.00416		0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00103	J
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	0.00417		0.0313	U	0.00308	U	0.00314	U	0.00306	U	0.00318	U	0.00315	U	0.00307	U	0.00326	U
	Endosulfan I	959-98-8	2.4	24	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Endosulfan II	33213-65-9	2.4	24	mg/kg	0.00207	U	0.0167	U	0.00164	U	0.00167	U	0.00163	U	0.0017	U	0.00168	U	0.00164	U	0.00174	U
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	0.000862	U	0.00695	U	0.000685	U	0.000697	U	0.000681	U	0.000707	U	0.0007	U	0.000683	U	0.000724	U
	Methoxychlor	72-43-5	~	~	mg/kg	0.00388	U	0.0313	U	0.00308	U	0.00314	U	0.00306	U	0.00318	U	0.00315	U	0.00307	U	0.00326	U
	Toxaphene	8001-35-2	~	~	mg/kg	0.0388	U	0.313	U	0.0308	U	0.0314	U	0.0306	U	0.0318	U	0.0315	U	0.0307	U	0.0326	U
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	0.00233	J	0.0285	IP	0.00205	U	0.00209	U	0.00204	U	0.000926	J	0.000956	J	0.00205	U	0.00153	JP
	trans-Chlordane	5103-74-2	~	~	mg/kg	0.00289		0.0506		0.00205	U	0.00209	U	0.00204	U	0.00108	JP	0.00056	JIP	0.00205	U	0.00211	J
	Chlordane	57-74-9	~	~	mg/kg	0.0172	U	0.319		0.0137	U	0.0139	U	0.0136	U	0.0141	U	0.014	U	0.0137	U	0.0145	U
Polychlorinated Biphenyls by GC																							
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0109	J
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.0188	JP	0.0192	J	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	0.0108	J	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.00869	J	0.0342	U	0.0347	U	0.0133	J
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	0.0427	U	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.0367	U
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	0.00657	J	0.0333	U	0.0339	U	0.034	U	0.0329	U	0.0353	U	0.0342	U	0.0347	U	0.00516	J
	PCBs, Total	1336-36-3	0.1	1	mg/kg	0.0362	J	0.0192	J														

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-114		SB-115		SB-115		SB-116		SB-116		SB-117		DUP-03		SB-117		SB-118	
SAMPLE DEPTH (ft.)						3-5		0-2		3-5		0-2		3-5		0-2		0-2		29.5-31.5		0-2	
SAMPLING DATE						1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022	
PARENT SAMPLE																		SB-117(0-2)					
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	0.25		0.12	J	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.078	J
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Diethyl phthalate	84-66-2	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Dimethyl phthalate	131-11-3	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	2.9		1.3		0.1	U	0.046	J	0.1	U	0.12	J	0.48	J	0.1	U	0.16	
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	3.2		1.6		0.14	U	0.066	J	0.14	U	0.71	U	0.51	J	0.14	U	0.17	
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	4.3		2.4		0.1	U	0.097	J	0.1	U	0.17	J	0.73		0.1	U	0.24	
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	1.3		0.53		0.1	U	0.028	J	0.1	U	0.53	U	0.24	J	0.1	U	0.085	J
	Chrysene	218-01-9	1	3.9	mg/kg	3.1		1.5		0.1	U	0.064	J	0.1	U	0.11	J	0.43	J	0.1	U	0.19	
	Acenaphthylene	208-96-8	100	100	mg/kg	0.078	J	0.035	J	0.14	U	0.14	U	0.14	U	0.71	U	0.71	U	0.14	U	0.14	U
	Anthracene	120-12-7	100	100	mg/kg	0.71		0.29		0.1	U	0.1	U	0.1	U	0.53	U	0.53	U	0.1	U	0.11	U
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	2.1		1.1		0.14	U	0.063	J	0.14	U	0.71	U	0.34	J	0.14	U	0.12	J
	Fluorene	86-73-7	30	100	mg/kg	0.3		0.11	J	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Phenanthrene	85-01-8	100	100	mg/kg	3		1.2		0.1	U	0.029	J	0.1	U	0.53	U	0.22	J	0.1	U	0.13	
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	0.5		0.21		0.1	U	0.1	U	0.1	U	0.53	U	0.53	U	0.1	U	0.036	J
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	2.6		1.3		0.14	U	0.065	J	0.14	U	0.71	U	0.4	J	0.14	U	0.14	
	Pyrene	129-00-0	100	100	mg/kg	5.1		2.3		0.1	U	0.07	J	0.1	U	0.19	J	0.77		0.1	U	0.26	
	Biphenyl	92-52-4	~	~	mg/kg	0.5	U	0.39	U	0.4	U	0.4	U	0.4	U	2	U	2	U	0.39	U	0.42	U
	4-Chloroaniline	106-47-8	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2-Nitroaniline	88-74-4	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	3-Nitroaniline	99-09-2	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	4-Nitroaniline	100-01-6	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Dibenzofuran	132-64-9	7	59	mg/kg	0.15	J	0.06	J	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	0.068	J	0.024	J	0.21	U	0.21	U	0.21	U	1.1	U	1.1	U	0.21	U	0.22	U
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Acetophenone	98-86-2	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.18	J	0.17	U	0.18	U
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	0.13	U	0.1	U	0.1	U	0.1	U	0.1	U	0.53	U	0.53	U	0.1	U	0.11	U
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2-Chlorophenol	95-57-8	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	0.2	U	0.15	U	0.16	U	0.16	U	0.16	U	0.8	U	0.8	U	0.16	U	0.16	U
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2-Nitrophenol	88-75-5	~	~	mg/kg	0.47	U	0.37	U	0.38	U	0.38	U	0.37	U	1.9	U	1.9	U	0.37	U	0.39	U
	4-Nitrophenol	100-02-7	~	~	mg/kg	0.31	U	0.24	U	0.24	U	0.25	U	0.24	U	1.2	U	1.2	U	0.24	U	0.26	U
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	1	U	0.82	U	0.84	U	0.85	U	0.83	U	4.3	U	4.3	U	0.83	U	0.87	U
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	0.57	U	0.44	U	0.45	U	0.46	U	0.45	U	2.3	U	2.3	U	0.45	U	0.47	U
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.18	U	0.14	U	0.14	U	0.14	U	0.14	U	0.71	U	0.71	U	0.14	U	0.14	U
	Phenol	108-95-2	0.33	100	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	2-Methylphenol	95-48-7	0.33	100	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	0.32	U	0.25	U	0.25	U	0.25	U	0.25	U	1.3	U	1.3	U	0.25	U	0.26	U
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Benzoic Acid	65-85-0	~	~	mg/kg	0.71	U	0.56	U	0.57	U	0.57	U	0.56	U	2.9	U	2.9	U	0.56	U	0.59	U
	Benzyl Alcohol	100-51-6	~	~	mg/kg	0.22	U	0.17	U	0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	Carbazole	86-74-8	~	~	mg/kg	0.42		0.2		0.17	U	0.18	U	0.17	U	0.89	U	0.89	U	0.17	U	0.18	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.033	U	0.026	U	0.026	U	0.026	U	0.026	U	0.13	U	0.13	U	0.026	U	0.027	U
Total Metals																							
	Aluminum, Total	7429-90-5	~	~	mg/kg	7650		5240		6250		8600		9560		9490		18900		3010		6490	
	Antimony, Total	7440-36-0	~	~	mg/kg	5.01	U	4.02	U	4.04	U	4.11	U	3.93	U	4.12	U	4.14	U	3.93	U	4.22	U
	Arsenic, Total	7440-38-2	13	16	mg/kg	5.64		2.12		1.84		2.14		1.74		2.27		2.83		0.96		3.44	
	Barium, Total	7440-39-3	350	400	mg/kg	82.8		49.2		46.1		41.8		63.6		57.1		131		27.4		57.2	
	Beryllium, Total	7440-41-7	7.2	72	mg/kg	0.3	J	0.209	J	0.202	J	0.131	J	0.141	J	0.181	J	0.083	J	0.094	J	0.219	J
	Cadmium, Total	7440-43-9	2.5	4.3	mg/kg	0.611	J	0.394	J	0.437	J	0.534	J	0.574	J	0.552	J	1.02		0.22	J	0.582	J
	Calcium, Total	7440-70-2	~	~	mg/kg	6220		27000		1750		7990		4090		2780		8090		20200		2120	

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-114		SB-115		SB-115		SB-116		SB-116		SB-117		DUP-03		SB-117		SB-118	
SAMPLE DEPTH (ft.)						3-5		0-2		3-5		0-2		3-5		0-2		0-2		29.5-31.5		0-2	
SAMPLING DATE						1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022	
PARENT SAMPLE																		SB-117(0-2)					
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Sodium, Total	7440-23-5	~	~	mg/kg	108	J	124	J	145	J	131	J	118	J	73.4	J	154	J	95.7	J	92.2	J
	Thallium, Total	7440-28-0	~	~	mg/kg	2	U	1.61	U	1.62	U	1.64	U	1.57	U	1.65	U	1.66	U	1.57	U	1.69	U
	Vanadium, Total	7440-62-2	~	~	mg/kg	30.1		19.7		23.1		41.9		39.8		47.1		116		11.2		25.6	
	Zinc, Total	7440-66-6	109	10000	mg/kg	114		38.6		29.6		46.4		43.2		57.9		122		16.1		74.1	
Volatile Organics by EPA 5035																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.0077	U	0.0092	U	0.0053	U	0.0096	U	0.0057	U	0.0059	U	0.0055	U	0.0078	U	0.0093	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Chloroform	67-66-3	0.37	49	mg/kg	0.0023	U	0.0028	U	0.0016	U	0.0029	U	0.0017	U	0.0018	U	0.0017	U	0.0024	U	0.0028	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.0062	U	0.0074	U	0.0043	U	0.0077	U	0.0046	U	0.0047	U	0.0044	U	0.0063	U	0.0074	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Bromoform	75-25-2	~	~	mg/kg	0.0062	U	0.0074	U	0.0043	U	0.0077	U	0.0046	U	0.0047	U	0.0044	U	0.0063	U	0.0074	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Benzene	71-43-2	0.06	4.8	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	Toluene	108-88-3	0.7	100	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Ethylbenzene	100-41-4	1	41	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Chloromethane	74-87-3	~	~	mg/kg	0.0062	U	0.0074	U	0.0043	U	0.0077	U	0.0046	U	0.0047	U	0.0044	U	0.0063	U	0.0074	U
	Bromomethane	74-83-9	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	Chloroethane	75-00-3	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0023	U	0.0028	U	0.0016	U	0.0029	U	0.0017	U	0.0018	U	0.0017	U	0.0024	U	0.0028	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.00077	U	0.00092	U	0.00053	U	0.00096	U	0.00057	U	0.00059	U	0.00055	U	0.00078	U	0.00093	U
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	p/m-Xylene	179601-23-1	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	o-Xylene	95-47-6	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0013		0.0011	U	0.0016	U	0.0018	U
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0013							

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION						SB-114		SB-115		SB-115		SB-116		SB-116		SB-117		DUP-03		SB-117		SB-118	
SAMPLE DEPTH (ft.)						3-5		0-2		3-5		0-2		3-5		0-2		0-2		29.5-31.5		0-2	
SAMPLING DATE						1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022	
PARENT SAMPLE																		SB-117(0-2)					
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.00045	J	0.0011	U	0.0016	U	0.0018	U
	Naphthalene	91-20-3	12	100	mg/kg	0.0041	J	0.0074	U	0.0043	U	0.0077	U	0.0046	U	0.00099	J	0.0044	U	0.0063	U	0.0074	U
	Acrylonitrile	107-13-1	~	~	mg/kg	0.0062	U	0.0074	U	0.0043	U	0.0077	U	0.0046	U	0.0047	U	0.0044	U	0.0063	U	0.0074	U
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.0015	U	0.0018	U	0.0011	U	0.0019	U	0.0011	U	0.0012	U	0.0011	U	0.0016	U	0.0018	U
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0028		0.00042	J	0.0031	U	0.0037	U
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0019	J	0.00048	J	0.0031	U	0.0037	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.12	U	0.15	U	0.086	U	0.15	U	0.092	U	0.094	U	0.088	U	0.12	U	0.15	U
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.00064	J	0.00038	J	0.0021	U	0.0038	U	0.0023	U	0.01		0.0012	J	0.0031	U	0.0037	U
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024		0.0005	J	0.0031	U	0.0037	U
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0023	J	0.0003	J	0.0031	U	0.0037	U
	Ethyl ether	60-29-7	~	~	mg/kg	0.0031	U	0.0037	U	0.0021	U	0.0038	U	0.0023	U	0.0024	U	0.0022	U	0.0031	U	0.0037	U
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.0077	U	0.0092	U	0.0053	U	0.0096	U	0.0057	U	0.0059	U	0.0055	U	0.0078	U	0.0093	U
Volatile Organics by EPA 5035 High																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p/m-Xylene	179601-23-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	o-Xylene	95-47-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dibromomethane	74-95-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Styrene	100-42-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dichlorodifluoromethane	75-71-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acetone	67-64-1	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Carbon disulfide	75-15-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-Butanone	78-93-3	0.12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vinyl acetate	108-05-4	~	~	mg/kg	-	-	-	-	-	-	-</											

LOCATION						SB-114		SB-115		SB-115		SB-116		SB-116		SB-117		DUP-03		SB-117		SB-118	
SAMPLE DEPTH (ft.)						3-5		0-2		3-5		0-2		3-5		0-2		0-2		29.5-31.5		0-2	
SAMPLING DATE						1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022	
PARENT SAMPLE																		SB-117(0-2)					
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																							
	Solids, Total	NONE	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	92.2	-	-	-	-	-	-	-
Perfluorinated Alkyl Acids by Isotope Dilution																							
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000054	J	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000259	U	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000518	U	-	-	-	-	-	-
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.00007	JF	-	-	-	-	-	-
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	0.000054	J	-	-	-	-	-	-

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-118		SB-119		SB-119		SB-120		SB-120		SB-121		SB-121		SB-122		SB-122		
SAMPLE DEPTH (ft.)					29.5-31.5		0-2		29.5-31.5		0-2		29.5-31.5		0-2		2-4		0-2		0-2		
SAMPLING DATE					1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																							
	2,4-D	94-75-7	~	~	mg/kg	0.177	U	0.178	U	0.175	U	0.194	U	0.179	U	0.182	U	0.178	U	1.73	U	-	-
	2,4,5-T	93-76-5	~	~	mg/kg	0.177	U	0.178	U	0.175	U	0.194	U	0.179	U	0.182	U	0.178	U	1.73	U	-	-
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	0.177	U	0.178	U	0.175	U	0.194	U	0.179	U	0.182	U	0.178	U	1.73	U	-	-
General Chemistry																							
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	14		17		12		17	J	14		19		12		19	J	-	-
	Solids, Total	NONE	~	~	%	93.1		93		93.5		84.9		92		89.3		92		93.9		-	-
	Cyanide, Total	57-12-5	27	27	mg/kg	1	U	1	U	1	U	1.1	U	1	U	1	U	1	U	1	U	-	-
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.859	U	0.86	U	0.856	U	0.283	J	0.87	U	0.896	U	0.913		0.234	J	-	-
Organochlorine Pesticides by GC																							
	Delta-BHC	319-86-8	0.04	100	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Lindane	58-89-9	0.1	1.3	mg/kg	0.000694	U	0.000694	U	0.000671	U	0.000742	U	0.000694	U	0.000745	U	0.00071	U	0.00069	U	-	-
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	0.000694	U	0.000694	U	0.000671	U	0.000742	U	0.000694	U	0.000745	U	0.00071	U	0.00069	U	-	-
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Heptachlor	76-44-8	0.042	2.1	mg/kg	0.000833	U	0.000833	U	0.000805	U	0.000891	U	0.000833	U	0.000894	U	0.000852	U	0.000828	U	-	-
	Aldrin	309-00-2	0.005	0.097	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	0.00312	U	0.00312	U	0.00302	U	0.00334	U	0.00312	U	0.00335	U	0.0032	U	0.0031	U	-	-
	Endrin	72-20-8	0.014	11	mg/kg	0.000694	U	0.000694	U	0.000671	U	0.000742	U	0.000694	U	0.000745	U	0.00071	U	0.00069	U	-	-
	Endrin aldehyde	7421-93-4	~	~	mg/kg	0.00208	U	0.00208	U	0.00201	U	0.00223	U	0.00208	U	0.00224	U	0.00213	U	0.00207	U	-	-
	Endrin ketone	53494-70-5	~	~	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Dieldrin	60-57-1	0.005	0.2	mg/kg	0.00104	U	0.00104	U	0.00101	U	0.00111	U	0.00104	U	0.00112	U	0.00106	U	0.00103	U	-	-
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	0.00312	U	0.00312	U	0.00302	U	0.00334	U	0.00312	U	0.00335	U	0.0032	U	0.0031	U	-	-
	Endosulfan I	959-98-8	2.4	24	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Endosulfan II	33213-65-9	2.4	24	mg/kg	0.00167	U	0.00167	U	0.00161	U	0.00178	U	0.00166	U	0.00179	U	0.0017	U	0.00166	U	-	-
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	0.000694	U	0.000694	U	0.000671	U	0.000742	U	0.000694	U	0.000745	U	0.00071	U	0.00069	U	-	-
	Methoxychlor	72-43-5	~	~	mg/kg	0.00312	U	0.00312	U	0.00302	U	0.00334	U	0.00312	U	0.00335	U	0.0032	U	0.0031	U	-	-
	Toxaphene	8001-35-2	~	~	mg/kg	0.0312	U	0.0312	U	0.0302	U	0.0334	U	0.0312	U	0.0335	U	0.032	U	0.031	U	-	-
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	0.00208	U	0.00139	J	0.00201	U	0.00147	JIP	0.00208	U	0.000892	JP	0.00213	U	0.00207	U	-	-
	trans-Chlordane	5103-74-2	~	~	mg/kg	0.00208	U	0.00228		0.00201	U	0.00216	JIP	0.00208	U	0.00125	J	0.00213	U	0.00207	U	-	-
	Chlordane	57-74-9	~	~	mg/kg	0.0139	U	0.0164	IP	0.0134	U	0.0161	IP	0.0139	U	0.0149	U	0.0142	U	0.0138	U	-	-
Polychlorinated Biphenyls by GC																							
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	0.0351	U	0.0136	J	0.0347	U	0.0133	J	0.0349	U	0.00765	J	0.036	U	0.0392		-	-
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	0.0351	U	0.0345	U	0.0347	U	0.0382	U	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	0.0351	U	0.00808	J	0.0347	U	0.00543	J	0.0349	U	0.0365	U	0.036	U	0.0347	U	-	-
	PCBs, Total	1336-36-3	0.1	1	mg/kg	0.0351	U	0.0217	J	0.0347	U	0.0187	J	0.0349	U	0.00765	J	0.036	U	0.0392		-	-
Semivolatle Organics by GC/MS																							
	Acenaphthene	83-32-9	20	100	mg/kg	0.14																	

LOCATION					SB-118		SB-119		SB-119		SB-120		SB-120		SB-121		SB-121		SB-122		SB-122		
SAMPLE DEPTH (ft.)					29.5-31.5		0-2		29.5-31.5		0-2		29.5-31.5		0-2		2-4		0-2		0-2		
SAMPLING DATE					1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.09	J	0.18	U	0.18	U	0.18	U	0.68	J	-	-
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Diethyl phthalate	84-66-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Dimethyl phthalate	131-11-3	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	0.11	U	1.1		0.11	U	0.13		0.11	U	0.084	J	0.11	U	0.41	J	-	-
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	0.14	U	1.1		0.14	U	0.15	J	0.14	U	0.07	J	0.14	U	0.36	J	-	-
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	0.11	U	1.4		0.11	U	0.2		0.11	U	0.087	J	0.11	U	0.42	J	-	-
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	0.11	U	0.49		0.11	U	0.066	J	0.11	U	0.034	J	0.11	U	0.17	J	-	-
	Chrysene	218-01-9	1	3.9	mg/kg	0.11	U	1		0.11	U	0.17		0.11	U	0.082	J	0.11	U	0.52		-	-
	Acenaphthylene	208-96-8	100	100	mg/kg	0.14	U	0.057	J	0.14	U	0.16	U	0.14	U	0.15	U	0.14	U	0.7	U	-	-
	Anthracene	120-12-7	100	100	mg/kg	0.11	U	0.21		0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.52	U	-	-
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	0.14	U	0.69		0.14	U	0.11	J	0.14	U	0.042	J	0.14	U	0.21	J	-	-
	Fluorene	86-73-7	30	100	mg/kg	0.18	U	0.041	J	0.18	U	0.054	J	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Phenanthrene	85-01-8	100	100	mg/kg	0.11	U	0.65		0.11	U	0.12		0.11	U	0.038	J	0.11	U	0.58		-	-
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	0.11	U	0.17		0.11	U	0.029	J	0.11	U	0.11	U	0.11	U	0.52	U	-	-
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	0.14	U	0.85		0.14	U	0.11	J	0.14	U	0.047	J	0.14	U	0.22	J	-	-
	Pyrene	129-00-0	100	100	mg/kg	0.11	U	1.6		0.11	U	0.26		0.11	U	0.1	J	0.11	U	0.73		-	-
	Biphenyl	92-52-4	~	~	mg/kg	0.4	U	0.4	U	0.4	U	0.042	J	0.41	U	0.42	U	0.41	U	2	U	-	-
	4-Chloroaniline	106-47-8	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2-Nitroaniline	88-74-4	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	3-Nitroaniline	99-09-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	4-Nitroaniline	100-01-6	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Dibenzofuran	132-64-9	7	59	mg/kg	0.18	U	0.023	J	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	0.21	U	0.023	J	0.21	U	0.18	J	0.21	U	0.22	U	0.22	U	1	U	-	-
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Acetophenone	98-86-2	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	0.11	U	0.1	U	0.11	U	0.12	U	0.11	U	0.11	U	0.11	U	0.52	U	-	-
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2-Chlorophenol	95-57-8	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	0.16	U	0.16	U	0.16	U	0.18	U	0.16	U	0.16	U	0.16	U	0.79	U	-	-
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2-Nitrophenol	88-75-5	~	~	mg/kg	0.38	U	0.38	U	0.38	U	0.42	U	0.39	U	0.4	U	0.39	U	1.9	U	-	-
	4-Nitrophenol	100-02-7	~	~	mg/kg	0.25	U	0.25	U	0.25	U	0.27	U	0.25	U	0.26	U	0.25	U	1.2	U	-	-
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	0.85	U	0.84	U	0.85	U	0.94	U	0.86	U	0.88	U	0.86	U	4.2	U	-	-
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	0.46	U	0.46	U	0.46	U	0.51	U	0.46	U	0.48	U	0.47	U	2.3	U	-	-
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.14	U	0.14	U	0.14	U	0.16	U	0.14	U	0.15	U	0.14	U	0.7	U	-	-
	Phenol	108-95-2	0.33	100	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	2-Methylphenol	95-48-7	0.33	100	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	0.25	U	0.25	U	0.26	U	0.28	U	0.26	U	0.26	U	0.26	U	1.2	U	-	-
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U	-	-
	Benzoic Acid	65-85-0	~	~	mg/kg	0.57	U	0.57	U	0.57	U	0.63	U	0.58	U	0.59	U	0.58	U	2.8	U	-	-
	Benzyl Alcohol	100-51-6	~	~	mg/kg	0.18	U	0.18	U	0.18	U	0.2	U	0.18	U	0.18	U	0.18	U	0.87	U>		

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-118		SB-119		SB-119		SB-120		SB-120		SB-121		SB-121		SB-122		SB-122		
SAMPLE DEPTH (ft.)					29.5-31.5		0-2		29.5-31.5		0-2		29.5-31.5		0-2		2-4		0-2		0-2		
SAMPLING DATE					1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
	Sodium, Total	7440-23-5	~	~	mg/kg	147	J	74.5	J	87.7	J	44.2	J	140	J	112	J	219		174	J	-	-
	Thallium, Total	7440-28-0	~	~	mg/kg	1.63	U	1.63	U	1.63	U	1.8	U	1.64	U	1.7	U	1.64	U	8.08	U	-	-
	Vanadium, Total	7440-62-2	~	~	mg/kg	21.9		21.4		19.4		37.2		19.3		25.6		16.8		24.3		-	-
	Zinc, Total	7440-66-6	109	10000	mg/kg	35.2		59		28.7		111		29.2		80.7		19.9		152		-	-
Volatile Organics by EPA 5035																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.0062	U	0.0057	U	0.0061	U	0.011	U	0.0062	U	0.0057	U	0.0064	U	0.0065	U	0.0068	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	Chloroform	67-66-3	0.37	49	mg/kg	0.0019	U	0.0017	U	0.0018	U	0.0033	U	0.0019	U	0.0017	U	0.0019	U	0.0019	U	0.002	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00084		0.00043	J
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.005	U	0.0045	U	0.0049	U	0.0088	U	0.005	U	0.0046	U	0.0051	U	0.0042	J	0.0054	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.0006	J	0.00033	J
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	Bromoform	75-25-2	~	~	mg/kg	0.005	U	0.0045	U	0.0049	U	0.0088	U	0.005	U	0.0046	U	0.0051	U	0.0052	U	0.0054	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00065	U	0.00068	U
	Benzene	71-43-2	0.06	4.8	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00033	J	0.00064	U	0.0047		0.0013	
	Toluene	108-88-3	0.7	100	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.005		0.0014	
	Ethylbenzene	100-41-4	1	41	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0012	J	0.0004	J
	Chloromethane	74-87-3	~	~	mg/kg	0.005	U	0.0045	U	0.0049	U	0.0088	U	0.005	U	0.0046	U	0.0051	U	0.0052	U	0.0054	U
	Bromomethane	74-83-9	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	Chloroethane	75-00-3	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	0.0014	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0019	U	0.0017	U	0.0018	U	0.0033	U	0.0019	U	0.0017	U	0.0019	U	0.0019	U	0.002	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.00062	U	0.00057	U	0.00061	U	0.0011	U	0.00062	U	0.00057	U	0.00064	U	0.00075		0.0004	J
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	0.0027	U
	p/m-Xylene	179601-23-1	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0013	J	0.00092	J
	o-Xylene	95-47-6	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.00066	J	0.0014	U
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.002	J	0.00092	J
	cis-1,2-Dichloroethene	156-59-2	0.25	100																			

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-118		SB-119		SB-119		SB-120		SB-120		SB-121		SB-121		SB-122		SB-122	
SAMPLE DEPTH (ft.)					29.5-31.5		0-2		29.5-31.5		0-2		29.5-31.5		0-2		2-4		0-2		0-2	
SAMPLING DATE					1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022	
PARENT SAMPLE																						
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.0013	U	
	Naphthalene	91-20-3	12	100	mg/kg	0.005	U	0.0045	U	0.0049	U	0.0088	U	0.005	U	0.0046	U	0.0051	U	0.0043	J	
	Acrylonitrile	107-13-1	~	~	mg/kg	0.005	U	0.0045	U	0.0049	U	0.0088	U	0.005	U	0.0046	U	0.0051	U	0.0052	U	
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.0012	U	0.0011	U	0.0012	U	0.0022	U	0.0012	U	0.0011	U	0.0013	U	0.00027	J	
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0009	J	
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.1	U	0.091	U	0.098	U	0.18	U	0.099	U	0.092	U	0.1	U	0.1	U	
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.00048	J	
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.00074	J	
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.00026	J	
	Ethyl ether	60-29-7	~	~	mg/kg	0.0025	U	0.0023	U	0.0024	U	0.0044	U	0.0025	U	0.0023	U	0.0025	U	0.0026	U	
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.0062	U	0.0057	U	0.0061	U	0.011	U	0.0062	U	0.0057	U	0.0064	U	0.0065	U	
Volatile Organics by EPA 5035 High																						
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Trichloroethene	79-01-6	0.47	21	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	p/m-Xylene	179601-23-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	o-Xylene	95-47-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichloroethene, Total	540-59-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Dibromomethane	74-95-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Styrene	100-42-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Dichlorodifluoromethane	75-71-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Acetone	67-64-1	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Carbon disulfide	75-15-0	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2-Butanone	78-93-3	0.12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Vinyl acetate	108-05-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4-Methyl-2-pentanone	108-10-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2,3-Trichloropropane	96-18-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-</								

LOCATION						SB-118		SB-119		SB-119		SB-120		SB-120		SB-121		SB-121		SB-122		SB-122	
SAMPLE DEPTH (ft.)						29.5-31.5		0-2		29.5-31.5		0-2		29.5-31.5		0-2		2-4		0-2		0-2	
SAMPLING DATE						1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/28/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022	
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	1,1,1,2-Tetrachloroethane	630-20-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bromobenzene	108-86-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Butylbenzene	104-51-8	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	sec-Butylbenzene	135-98-8	11	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	tert-Butylbenzene	98-06-6	5.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	o-Chlorotoluene	95-49-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Chlorotoluene	106-43-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2-Dibromo-3-chloropropane	96-12-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hexachlorobutadiene	87-68-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Isopropylbenzene	98-82-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Naphthalene	91-20-3	12	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Acrylonitrile	107-13-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	-	-	-	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Diethylbenzene	105-05-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	p-Ethyltoluene	622-96-8	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ethyl ether	60-29-7	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																							
	Solids, Total	NONE	~	~	mg/kg	-	-	92.3		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorinated Alkyl Acids by Isotope Dilution																							
	Perfluorobutanoic Acid (PFBA)	375-22-4	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	~	~	mg/kg	-	-	0.000238	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorohexanoic Acid (PFHxA)	307-24-4	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	~	~	mg/kg	-	-	0.000238	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	~	~	mg/kg	-	-	0.000238	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.00066*	0.033*	mg/kg	-	-	0.000241		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorononanoic Acid (PFNA)	375-95-1	~	~	mg/kg	-	-	0.000238	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.00088*	0.044*	mg/kg	-	-	0.000198	J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorodecanoic Acid (PFDA)	335-76-2	~	~	mg/kg	-	-	0.000238	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorooctanesulfonamide (FOSA)	754-91-6	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorododecanoic Acid (PFDoA)	307-55-1	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorotridecanoic Acid (PFTriDA)	72629-94-8	~	~	mg/kg	-	-	0.000476	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	~	~	mg/kg	-	-	0.000061	J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PFOA/PFOS, Total	null	~	~	mg/kg	-	-	0.000439	J	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered
P - The RPD between the results for the two columns exceeds the method-specified criteria.

LOCATION					SB-122		SB-123		SB-123		SB-124		SB-124		SB-124		SB-125		SB-125		SB-125		
SAMPLE DEPTH (ft.)					2-4		0-2		3-5		0-2		0-2		3-5		0-2		0-2		3-5		
SAMPLING DATE					1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Chlorinated Herbicides by GC																							
	2,4-D	94-75-7	~	~	mg/kg	0.174	U	0.178	U	0.185	U	0.176	U	-	-	0.174	U	0.182	U	-	-	0.181	U
	2,4,5-T	93-76-5	~	~	mg/kg	0.174	U	0.178	U	0.185	U	0.176	U	-	-	0.174	U	0.182	U	-	-	0.181	U
	2,4,5-TP (Silvex)	93-72-1	3.8	100	mg/kg	0.174	U	0.178	U	0.185	U	0.176	U	-	-	0.174	U	0.182	U	-	-	0.181	U
General Chemistry																							
	Chromium, Trivalent	16065-83-1	30	180	mg/kg	14	J	18		28	J	17		-	-	17	J	20		-	-	17	J
	Solids, Total	NONE	~	~	%	95.4		93.2		89.5		92		-	-	94.5		91		-	-	90.8	
	Cyanide, Total	57-12-5	27	27	mg/kg	1	U	1.1	U	1.1	U	1	U	-	-	1	U	1	U	-	-	1.1	U
	Chromium, Hexavalent	18540-29-9	1	110	mg/kg	0.65	J	0.858	U	0.827	J	0.87	U	-	-	0.392	J	0.879	U	-	-	0.782	J
Organochlorine Pesticides by GC																							
	Delta-BHC	319-86-8	0.04	100	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Lindane	58-89-9	0.1	1.3	mg/kg	0.00068	U	0.000675	U	0.000721	U	0.000689	U	-	-	0.000687	U	0.000731	U	-	-	0.000703	U
	Alpha-BHC	319-84-6	0.02	0.48	mg/kg	0.00068	U	0.000675	U	0.000721	U	0.000689	U	-	-	0.000687	U	0.000731	U	-	-	0.000703	U
	Beta-BHC	319-85-7	0.036	0.36	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Heptachlor	76-44-8	0.042	2.1	mg/kg	0.000816	U	0.00081	U	0.000865	U	0.000826	U	-	-	0.000824	U	0.000877	U	-	-	0.000844	U
	Aldrin	309-00-2	0.005	0.097	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Heptachlor epoxide	1024-57-3	~	~	mg/kg	0.00306	U	0.00304	U	0.00324	U	0.0031	U	-	-	0.00309	U	0.00329	U	-	-	0.00316	U
	Endrin	72-20-8	0.014	11	mg/kg	0.00068	U	0.000675	U	0.000721	U	0.000689	U	-	-	0.000687	U	0.000731	U	-	-	0.000703	U
	Endrin aldehyde	7421-93-4	~	~	mg/kg	0.00204	U	0.00202	U	0.00216	U	0.00207	U	-	-	0.00206	U	0.00219	U	-	-	0.00211	U
	Endrin ketone	53494-70-5	~	~	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Dieldrin	60-57-1	0.005	0.2	mg/kg	0.00102	U	0.00101	U	0.00108	U	0.00103	U	-	-	0.00103	U	0.0011	U	-	-	0.00105	U
	4,4'-DDE	72-55-9	0.0033	8.9	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	4,4'-DDD	72-54-8	0.0033	13	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	4,4'-DDT	50-29-3	0.0033	7.9	mg/kg	0.00306	U	0.00304	U	0.00324	U	0.0031	U	-	-	0.00309	U	0.00329	U	-	-	0.00316	U
	Endosulfan I	959-98-8	2.4	24	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Endosulfan II	33213-65-9	2.4	24	mg/kg	0.00163	U	0.00162	U	0.00173	U	0.00165	U	-	-	0.00165	U	0.00175	U	-	-	0.00169	U
	Endosulfan sulfate	1031-07-8	2.4	24	mg/kg	0.00068	U	0.000675	U	0.000721	U	0.000689	U	-	-	0.000687	U	0.000731	U	-	-	0.000703	U
	Methoxychlor	72-43-5	~	~	mg/kg	0.00306	U	0.00304	U	0.00324	U	0.0031	U	-	-	0.00309	U	0.00329	U	-	-	0.00316	U
	Toxaphene	8001-35-2	~	~	mg/kg	0.0306	U	0.0304	U	0.0324	U	0.031	U	-	-	0.0309	U	0.0329	U	-	-	0.0316	U
	cis-Chlordane	5103-71-9	0.094	4.2	mg/kg	0.00204	U	0.00125	JP	0.00216	U	0.000941	JIP	-	-	0.00206	U	0.00219	U	-	-	0.00211	U
	trans-Chlordane	5103-74-2	~	~	mg/kg	0.00204	U	0.00121	JIP	0.00216	U	0.00163	J	-	-	0.00206	U	0.00147	JP	-	-	0.00211	U
	Chlordane	57-74-9	~	~	mg/kg	0.0136	U	0.0135	U	0.0144	U	0.0138	U	-	-	0.0137	U	0.0146	U	-	-	0.0141	U
Polychlorinated Biphenyls by GC																							
	Aroclor 1016	12674-11-2	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1221	11104-28-2	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1232	11141-16-5	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1242	53469-21-9	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1248	12672-29-6	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1254	11097-69-1	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1260	11096-82-5	0.1	1	mg/kg	0.0332	U	0.00971	J	0.0372	U	0.0097	J	-	-	0.034	U	0.0118	J	-	-	0.0361	U
	Aroclor 1262	37324-23-5	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	Aroclor 1268	11100-14-4	0.1	1	mg/kg	0.0332	U	0.0349	U	0.0372	U	0.034	U	-	-	0.034	U	0.0363	U	-	-	0.0361	U
	PCBs, Total	1336-36-3	0.1	1	mg/kg	0.0332	U	0.00971	J	0.0372	U	0.0097	J	-	-	0.034	U	0.0118	J	-	-	0.0361	U
Semivolatle Organics by GC/MS																							
	Acenaphthene	83-32-9	20	100	mg/kg	0.14	U	0.14	U	0.15	U	0.019	J	-	-	0.14	U	0.14	U	-	-	0.14	U
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Hexachlorobenzene	118-74-1	0.33	1.2	mg/kg	0.1	U	0.1	U	0.11	U	0.11	U	-	-	0.1	U	0.11	U	-	-	0.11	U
	Bis(2-chloroethyl)ether	111-44-4	~	~	mg/kg	0.15	U	0.16	U	0.16	U	0.16	U	-	-	0.15							

LOCATION						SB-122		SB-123		SB-123		SB-124		SB-124		SB-124		SB-125		SB-125		SB-125	
SAMPLE DEPTH (ft.)						2-4		0-2		3-5		0-2		0-2		3-5		0-2		0-2		3-5	
SAMPLING DATE						1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022	
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	n-Nitrosodi-n-propylamine	621-64-7	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Bis(2-ethylhexyl)phthalate	117-81-7	~	~	mg/kg	0.17	U	0.33		0.18	U	0.16	J	-	-	0.17	U	0.26		-	-	0.18	U
	Butyl benzyl phthalate	85-68-7	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Di-n-butylphthalate	84-74-2	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Di-n-octylphthalate	117-84-0	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Diethyl phthalate	84-66-2	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Dimethyl phthalate	131-11-3	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Benzo(a)anthracene	56-55-3	1	1	mg/kg	0.085	J	0.092	J	0.11	U	0.14		-	-	0.1	U	0.04	J	-	-	0.11	U
	Benzo(a)pyrene	50-32-8	1	1	mg/kg	0.067	J	0.099	J	0.15	U	0.092	J	-	-	0.14	U	0.14	U	-	-	0.14	U
	Benzo(b)fluoranthene	205-99-2	1	1	mg/kg	0.077	J	0.11		0.11	U	0.12		-	-	0.1	U	0.11	U	-	-	0.11	U
	Benzo(k)fluoranthene	207-08-9	0.8	3.9	mg/kg	0.03	J	0.03	J	0.11	U	0.037	J	-	-	0.1	U	0.11	U	-	-	0.11	U
	Chrysene	218-01-9	1	3.9	mg/kg	0.076	J	0.12		0.11	U	0.16		-	-	0.1	U	0.068	J	-	-	0.11	U
	Acenaphthylene	208-96-8	100	100	mg/kg	0.14	U	0.14	U	0.15	U	0.14	U	-	-	0.14	U	0.14	U	-	-	0.14	U
	Anthracene	120-12-7	100	100	mg/kg	0.1	U	0.1	U	0.11	U	0.039	J	-	-	0.1	U	0.11	U	-	-	0.11	U
	Benzo(ghi)perylene	191-24-2	100	100	mg/kg	0.037	J	0.057	J	0.15	U	0.056	J	-	-	0.14	U	0.14	U	-	-	0.14	U
	Fluorene	86-73-7	30	100	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Phenanthrene	85-01-8	100	100	mg/kg	0.03	J	0.075	J	0.11	U	0.16		-	-	0.1	U	0.036	J	-	-	0.11	U
	Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	mg/kg	0.1	U	0.1	U	0.11	U	0.11	U	-	-	0.1	U	0.11	U	-	-	0.11	U
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	mg/kg	0.043	J	0.063	J	0.15	U	0.057	J	-	-	0.14	U	0.14	U	-	-	0.14	U
	Pyrene	129-00-0	100	100	mg/kg	0.13		0.14		0.11	U	0.22		-	-	0.1	U	0.064	J	-	-	0.11	U
	Biphenyl	92-52-4	~	~	mg/kg	0.39	U	0.4	U	0.42	U	0.41	U	-	-	0.39	U	0.4	U	-	-	0.41	U
	4-Chloroaniline	106-47-8	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2-Nitroaniline	88-74-4	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	3-Nitroaniline	99-09-2	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	4-Nitroaniline	100-01-6	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Dibenzofuran	132-64-9	7	59	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2-Methylnaphthalene	91-57-6	~	~	mg/kg	0.2	U	0.21	U	0.22	U	0.22	U	-	-	0.21	U	0.21	U	-	-	0.22	U
	1,2,4,5-Tetrachlorobenzene	95-94-3	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Acetophenone	98-86-2	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2,4,6-Trichlorophenol	88-06-2	~	~	mg/kg	0.1	U	0.1	U	0.11	U	0.11	U	-	-	0.1	U	0.11	U	-	-	0.11	U
	p-Chloro-m-cresol	59-50-7	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2-Chlorophenol	95-57-8	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2,4-Dichlorophenol	120-83-2	~	~	mg/kg	0.15	U	0.16	U	0.16	U	0.16	U	-	-	0.15	U	0.16	U	-	-	0.16	U
	2,4-Dimethylphenol	105-67-9	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2-Nitrophenol	88-75-5	~	~	mg/kg	0.37	U	0.38	U	0.39	U	0.39	U	-	-	0.37	U	0.38	U	-	-	0.39	U
	4-Nitrophenol	100-02-7	~	~	mg/kg	0.24	U	0.24	U	0.26	U	0.25	U	-	-	0.24	U	0.25	U	-	-	0.25	U
	2,4-Dinitrophenol	51-28-5	~	~	mg/kg	0.81	U	0.84	U	0.88	U	0.86	U	-	-	0.82	U	0.85	U	-	-	0.86	U
	4,6-Dinitro-o-cresol	534-52-1	~	~	mg/kg	0.44	U	0.46	U	0.48	U	0.47	U	-	-	0.45	U	0.46	U	-	-	0.47	U
	Pentachlorophenol	87-86-5	0.8	6.7	mg/kg	0.14	U	0.14	U	0.15	U	0.14	U	-	-	0.14	U	0.14	U	-	-	0.14	U
	Phenol	108-95-2	0.33	100	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	2-Methylphenol	95-48-7	0.33	100	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	100	mg/kg	0.24	U	0.25	U	0.26	U	0.26	U	-	-	0.25	U	0.26	U	-	-	0.26	U
	2,4,5-Trichlorophenol	95-95-4	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Benzoic Acid	65-85-0	~	~	mg/kg	0.55	U	0.57	U	0.59	U	0.58	U	-	-	0.56	U	0.58	U	-	-	0.58	U
	Benzyl Alcohol	100-51-6	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	Carbazole	86-74-8	~	~	mg/kg	0.17	U	0.18	U	0.18	U	0.18	U	-	-	0.17	U	0.18	U	-	-	0.18	U
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.025	U	0.026	U	0.027	U	0.027	U	-	-</								

LOCATION						SB-122		SB-123		SB-123		SB-124		SB-124		SB-124		SB-125		SB-125		SB-125	
SAMPLE DEPTH (ft.)						2-4		0-2		3-5		0-2		0-2		3-5		0-2		0-2		3-5	
SAMPLING DATE						1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022	
PARENT SAMPLE																							
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Sodium, Total	7440-23-5	~	~	mg/kg	77.5	J	85.4	J	58.8	J	113	J	-	-	59.1	J	80.4	J	-	-	126	J
	Thallium, Total	7440-28-0	~	~	mg/kg	1.59	U	1.62	U	1.69	U	1.64	U	-	-	1.62	U	1.66	U	-	-	1.67	U
	Vanadium, Total	7440-62-2	~	~	mg/kg	20		24.3		39.7		22.2		-	-	23.7		29.6		-	-	23.8	
	Zinc, Total	7440-66-6	109	10000	mg/kg	182		52.2		50.2		182		-	-	28.8		52		-	-	28.4	
Volatile Organics by EPA 5035																							
	Methylene chloride	75-09-2	0.05	100	mg/kg	0.0065	U	0.006	U	0.0067	U	0.0055	U	0.0062	U	0.006	U	0.0063	U	0.0054	U	0.0059	U
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Chloroform	67-66-3	0.37	49	mg/kg	0.0019	U	0.0018	U	0.002	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0016	U	0.0018	U
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Dibromochloromethane	124-48-1	~	~	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	0.00065	U	0.00032	J	0.00067	U	0.00022	J	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	Chlorobenzene	108-90-7	1.1	100	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	0.0052	U	0.0048	U	0.0053	U	0.0044	U	0.005	U	0.0048	U	0.005	U	0.0043	U	0.0047	U
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.0096		0.0077		0.0059	U
	Bromodichloromethane	75-27-4	~	~	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	Bromoform	75-25-2	~	~	mg/kg	0.0052	U	0.0048	U	0.0053	U	0.0044	U	0.005	U	0.0048	U	0.005	U	0.0043	U	0.0047	U
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	Benzene	71-43-2	0.06	4.8	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00034	J	0.00043	J	0.0006	U	0.00063	U	0.00054	U	0.00059	U
	Toluene	108-88-3	0.7	100	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Ethylbenzene	100-41-4	1	41	mg/kg	0.0013	U	0.0083		0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Chloromethane	74-87-3	~	~	mg/kg	0.0052	U	0.0048	U	0.0053	U	0.0044	U	0.005	U	0.0048	U	0.005	U	0.0043	U	0.0047	U
	Bromomethane	74-83-9	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Chloroethane	75-00-3	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	1,1-Dichloroethene	75-35-4	0.33	100	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	trans-1,2-Dichloroethene	156-60-5	0.19	100	mg/kg	0.0019	U	0.0018	U	0.002	U	0.0017	U	0.0019	U	0.0018	U	0.0019	U	0.0016	U	0.0018	U
	Trichloroethene	79-01-6	0.47	21	mg/kg	0.00065	U	0.0006	U	0.00067	U	0.00055	U	0.00062	U	0.0006	U	0.00052	J	0.00047	J	0.00059	U
	1,2-Dichlorobenzene	95-50-1	1.1	100	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	1,3-Dichlorobenzene	541-73-1	2.4	49	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	1,4-Dichlorobenzene	106-46-7	1.8	13	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	Methyl tert butyl ether	1634-04-4	0.93	100	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	p/m-Xylene	179601-23-1	~	~	mg/kg	0.0026	U	0.053		0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	0.0024	U
	o-Xylene	95-47-6	~	~	mg/kg	0.0013	U	0.02		0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	Xylenes, Total	1330-20-7	0.26	100	mg/kg	0.0013	U	0.073		0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U
	cis-1,2-Dichloroethene	156-59-2	0.25	100	mg/kg	0.0013	U																

Table 3. Soil Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					SB-122		SB-123		SB-123		SB-124		SB-124		SB-124		SB-125		SB-125		SB-125	
SAMPLE DEPTH (ft.)					2-4		0-2		3-5		0-2		0-2		3-5		0-2		0-2		3-5	
SAMPLING DATE					1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022		1/24/2022	
PARENT SAMPLE																						
		CasNum	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	p-Isopropyltoluene	99-87-6	~	~	mg/kg	0.0013	U	0.0012	U	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	
	Naphthalene	91-20-3	12	100	mg/kg	0.0052	U	0.0048	U	0.0053	U	0.0044	U	0.005	U	0.0048	U	0.005	U	0.0043	U	
	Acrylonitrile	107-13-1	~	~	mg/kg	0.0052	U	0.0048	U	0.0053	U	0.0044	U	0.005	U	0.0048	U	0.005	U	0.0043	U	
	n-Propylbenzene	103-65-1	3.9	100	mg/kg	0.0013	U	0.00029	J	0.0013	U	0.0011	U	0.0012	U	0.0012	U	0.0013	U	0.0011	U	
	1,2,3-Trichlorobenzene	87-61-6	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	1,2,4-Trichlorobenzene	120-82-1	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	1,3,5-Trimethylbenzene	108-67-8	8.4	52	mg/kg	0.0026	U	0.00048	J	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	1,2,4-Trimethylbenzene	95-63-6	3.6	52	mg/kg	0.0026	U	0.0018	J	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	1,4-Dioxane	123-91-1	0.1	13	mg/kg	0.1	U	0.096	U	0.11	U	0.089	U	0.1	U	0.096	U	0.1	U	0.087	U	
	p-Diethylbenzene	105-05-5	~	~	mg/kg	0.0026	U	0.00035	J	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	p-Ethyltoluene	622-96-8	~	~	mg/kg	0.0026	U	0.0012	J	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	1,2,4,5-Tetramethylbenzene	95-93-2	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	Ethyl ether	60-29-7	~	~	mg/kg	0.0026	U	0.0024	U	0.0027	U	0.0022	U	0.0025	U	0.0024	U	0.0025	U	0.0022	U	
	trans-1,4-Dichloro-2-butene	110-57-6	~	~	mg/kg	0.0065	U	0.006	U	0.0067	U	0.0055	U	0.0062	U	0.006	U	0.0063	U	0.0054	U	
Volatile Organics by EPA 5035 High																						
	Methylene chloride	75-09-2	0.05	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1-Dichloroethane	75-34-3	0.27	26	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloroform	67-66-3	0.37	49	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Carbon tetrachloride	56-23-5	0.76	2.4	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichloropropane	78-87-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Dibromochloromethane	124-48-1	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,2-Trichloroethane	79-00-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Tetrachloroethene	127-18-4	1.3	19	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chlorobenzene	108-90-7	1.1	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Trichlorofluoromethane	75-69-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,2-Dichloroethane	107-06-2	0.02	3.1	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,1-Trichloroethane	71-55-6	0.68	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromodichloromethane	75-27-4	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	trans-1,3-Dichloropropene	10061-02-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	cis-1,3-Dichloropropene	10061-01-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,3-Dichloropropene, Total	542-75-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1-Dichloropropene	563-58-6	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromoform	75-25-2	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1,1,2,2-Tetrachloroethane	79-34-5	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Benzene	71-43-2	0.06	4.8	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Toluene	108-88-3	0.7	100	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ethylbenzene	100-41-4	1	41	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloromethane	74-87-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bromomethane	74-83-9	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Vinyl chloride	75-01-4	0.02	0.9	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Chloroethane	75-00-3	~	~	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

[illegible]

Notes:
Any regulatory exceedances are color coded by regulation.
Track 1 SCOs = 6NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives
Track 2 SCOs = 6NYCRR Part 375-6.8 Restricted Residential Use Soil Cleanup Objectives
mg/kg - milligrams per kilogram
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value

Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered suspect.
P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 4. Groundwater Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION				MW-1		MW-2		MW-3		DUP-01		MW-4		MW-5		MW-6		MW-11		MW-12		FB-020222				
SAMPLING DATE				2/1/2022		2/2/2022		2/2/2022		2/2/2022		2/1/2022		2/2/2022		2/2/2022		2/1/2022		2/1/2022		2/2/2022				
PARENT SAMPLE										MW-03																
		CasNum	NYSDEC Part 703.5	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
1,4 Dioxane by 8270D-SIM																										
1,4-Dioxane				123-91-1	~	ug/l	-	-	0.0576	J	-	-	-	-	0.425		0.0384	J	0.0392	J	0.144	U	0.139	U	0.15	U
Chlorinated Herbicides by GC																										
2,4-D				94-75-7	50	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2,4,5-T				93-76-5	35	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,4,5-TP (Silvex)				93-72-1	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Dissolved Metals																										
Aluminum, Dissolved				7429-90-5	~	ug/l	20.4		200	U	100	U	100	U	3.93	J	19.3		15.9		6.07	J	3.78	J	5.26	J
Antimony, Dissolved				7440-36-0	3	ug/l	0.58	J	0.83	J	4	U	0.43	J	4	U	0.51	J	4	U	4	U	4	U	0.7	J
Arsenic, Dissolved				7440-38-2	25	ug/l	0.5	U	0.42	J	0.89		0.97		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Barium, Dissolved				7440-39-3	1000	ug/l	106.1		100.9		53.15		60.35		202.9		76.15		100.6		151.5		138.3		0.5	U
Beryllium, Dissolved				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	0.5	U	0.5	U
Cadmium, Dissolved				7440-43-9	5	ug/l	0.06	J	0.14	J	0.09	J	0.08	J	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Calcium, Dissolved				7440-70-2	~	ug/l	107000		256000		181000		199000		151000		109000		79800		119000		98400		100	U
Chromium, Dissolved				7440-47-3	50	ug/l	2.18		1	U	0.37	J	0.41	J	1	U	1	U	1	U	1.12		1.98		1	U
Cobalt, Dissolved				7440-48-4	~	ug/l	0.5	U	10	U	0.26	J	0.33	J	7		2.99		1.38		3.55		0.42	J	0.5	U
Copper, Dissolved				7440-50-8	200	ug/l	1.1		1.33		0.83	J	1.01		2.5		0.94	J	0.95	J	1.02		0.73	J	1	U
Iron, Dissolved				7439-89-6	300	ug/l	107		1000	U	50	U	26.1	J	50	U	51.5		26.3	J	22.5	J	50	U	50	U
Lead, Dissolved				7439-92-1	25	ug/l	1	U	0.73	J	0.97	J	2.08		1	U	1	U	1	U	1	U	1	U	0.78	J
Magnesium, Dissolved				7439-95-4	35000	ug/l	36300		494000		288000		330000		41700		34800		22300		48000		39700		70	U
Manganese, Dissolved				7439-96-5	300	ug/l	8.83		60.62		93.31		106.6		1124		821.8		212		282.3		135.5		1	U
Mercury, Dissolved				7439-97-6	0.7	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	0.2	U	0.2	U
Nickel, Dissolved				7440-02-0	100	ug/l	2.11		40	U	2.2		2.45		9.92		4.42		1.9	J	4.39		2.14		2	U
Potassium, Dissolved				7440-09-7	~	ug/l	4410		139000		80800		89500		10400		8380		4700		8890		5680		100	U
Selenium, Dissolved				7782-49-2	10	ug/l	3.45	J	5	U	5	U	5	U	5	U	5	U	1.89	J	2.58	J	4.03	J	5	U
Silver, Dissolved				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	0.4	U	0.4	U
Sodium, Dissolved				7440-23-5	20000	ug/l	80500		4410000		2580000		2950000		112000		15600		7370		92800		80800		163	JB
Thallium, Dissolved				7440-28-0	0.5	ug/l	1	U	1	U	1	U	1	U	1	U	0.16	J	1	U	1	U	1	U	0.15	J
Vanadium, Dissolved				7440-62-2	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Zinc, Dissolved				7440-66-6	2000	ug/l	5.97	J	7.26	J	11.75		13.38		10	U	10	U	10	U	10	U	10	U	10	U
Organochlorine Pesticides by GC																										
Delta-BHC				319-86-8	0.04	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Lindane				58-89-9	0.05	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Alpha-BHC				319-84-6	0.01	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Beta-BHC				319-85-7	0.04	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Heptachlor				76-44-8	0.04	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Aldrin				309-00-2	0	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Heptachlor epoxide				1024-57-3	0.03	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Endrin				72-20-8	0	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin aldehyde				7421-93-4	5	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin ketone				53494-70-5	5	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Dieldrin				60-57-1	0.004	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDE				72-55-9	0.2	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDD				72-54-8	0.3	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
4,4'-DDT				50-29-3	0.2	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endosulfan I				959-98-8	~	ug/l	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Endosulfan II				33213-65-9	~	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endosulfan sulfate				1031-07-8	~	ug/l	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Methoxychlor				72-43-5	35	ug/l	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U
Toxaphene				8001-35-2	0.06	ug/l	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U
cis-Chlordane				5103-71-9	~	ug/l	0.014	U	0.017	P	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
trans-Chlordane				5103-74-2	~	ug/l	0.014	U	0.013	JIP	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
Chlordane				57-74-9	0.05	ug/l	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U	0.143	U

Table 4. Groundwater Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION				MW-1		MW-2		MW-3		DUP-01		MW-4		MW-5		MW-6		MW-11		MW-12		FB-020222		
SAMPLING DATE				2/1/2022		2/2/2022		2/2/2022		2/2/2022		2/1/2022		2/2/2022		2/2/2022		2/1/2022		2/1/2022		2/2/2022		
PARENT SAMPLE										MW-03														
		CasNum	NYSDEC Part 703.5	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC																								
	Aroclor 1016	12674-11-2	0.09	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	0.071	U	0.071	U
	Aroclor 1221	11104-28-2	0.09	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	0.071	U	0.071	U
	Aroclor 1232	11141-16-5	0.09	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	0.071	U	0.071	U
	Aroclor 1242	53469-21-9	0.09	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	0.071	U	0.071	U
	Aroclor 1248	12672-29-6	0.09	ug/l	0.071	U	1.01		0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
	Aroclor 1254	11097-69-1	0.09	ug/l	0.071	U	1.13		0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
	Aroclor 1260	11096-82-5	0.09	ug/l	0.071	U	0.145	IP	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
	Aroclor 1262	37324-23-5	0.09	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	0.071	U	0.071	U
	Aroclor 1268	11100-14-4	0.09	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	0.071	U	0.071	U
	PCBs, Total	1336-36-3	0.09	ug/l	0.071	U	2.29		0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U	0.071	U
Semivolatile Organics by GC/MS																								
	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	5	U	5	U
	Bis(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	2	U	2	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	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	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	2	U	2	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	5	U	5	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	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	5	U	5	U
	4-Chlorophenyl phenyl ether	7005-72-3	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	4-Bromophenyl phenyl ether	101-55-3	~	ug/l	2	U	2	U	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	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	5	U	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	20	U	20	U
	Isophorone	78-59-1	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Nitrobenzene	98-95-3	0.4	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	NDPA/DPA	86-30-6	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	n-Nitrosodi-n-propylamine	621-64-7	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	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	3	U	3	U
	Butyl benzyl phthalate	85-68-7	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Di-n-butylphthalate	84-74-2	50	ug/l	5	U	5	U	5	U	5	U	1.8	J	5	U	5	U	5	U	5	U	5	U
	Di-n-octylphthalate	117-84-0	50	ug/l	5	U	5	U	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	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	5	U	5	U
	Biphenyl	92-52-4	~	ug/l	2	U	2	U	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	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	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	5	U	5	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	5	U	5	U
	Dibenzofuran	132-64-9	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	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	10	U	10	U
	Acetophenone	98-86-2	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	2,4,6-Trichlorophenol	88-06-2	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	p-Chloro-m-cresol	59-50-7	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	2-Chlorophenol	95-57-8	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	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	5	U	5	U
	2,4-Dimethylphenol	105-67-9	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	2-Nitrophenol	88-75-5	~	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
	4-Nitrophenol	100-02-7	~	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
	2,4-Dinitrophenol	51-28-5	10	ug/l	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
	4,6-Dinitro-o-cresol	534-52-1	~	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
	Phenol	108-95-2	1	ug/l	5	U	3.9	J	1.1	J	3.7	J	5	U	1.2	J	3.3	J	5	U	5	U	2.4	J
	2-Methylphenol	95-48-7	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	2,4,5-Trichlorophenol	95-95-4	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Benzoic Acid	65-85-0	~	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
	Benzyl Alcohol	100-51-6	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	Carbazole	86-74-8	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U

LOCATION				MW-1		MW-2		MW-3		DUP-01		MW-4		MW-5		MW-6		MW-11		MW-12		FB-020222		
SAMPLING DATE				2/1/2022		2/2/2022		2/2/2022		2/2/2022		2/1/2022		2/2/2022		2/2/2022		2/1/2022		2/1/2022		2/2/2022		
PARENT SAMPLE										MW-03														
		CasNum	NYSDEC Part 703.5	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS-SIM																								
	Acenaphthene	83-32-9	20	ug/l	0.1	U	0.1		0.07	J	0.06	J	0.1	U	0.1	U	0.1	U	0.1	U	0.02	J	0.1	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	0.03	J	0.2	U	0.2	U	0.2	U
	Fluoranthene	206-44-0	50	ug/l	0.03	J	1.2		0.19		0.07	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	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	0.5	U	0.5	U
	Naphthalene	91-20-3	10	ug/l	0.1	U	0.08	J	0.11		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.07	J
	Benzo(a)anthracene	56-55-3	0.002	ug/l	0.1	U	0.54		0.09	J	0.04	J	0.1	U	0.03	J	0.02	J	0.1	U	0.1	U	0.1	U
	Benzo(a)pyrene	50-32-8	0	ug/l	0.1	U	0.56		0.08	J	0.03	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Benzo(b)fluoranthene	205-99-2	0.002	ug/l	0.01	J	0.77		0.12		0.04	J	0.1	U	0.02	J	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	0.2		0.03	J	0.01	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Chrysene	218-01-9	0.002	ug/l	0.1	U	0.45		0.09	J	0.03	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Acenaphthylene	208-96-8	~	ug/l	0.1	U	0.04	J	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.01	J	0.1	U
	Anthracene	120-12-7	50	ug/l	0.1	U	0.16		0.04	J	0.02	J	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U	0.1	U
	Benzo(ghi)perylene	191-24-2	~	ug/l	0.1	U	0.39		0.05	J	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Fluorene	86-73-7	50	ug/l	0.1	U	0.1		0.07	J	0.05	J	0.1	U	0.1	U	0.02	J	0.1	U	0.02	J	0.1	U
	Phenanthrene	85-01-8	50	ug/l	0.03	J	0.71		0.18		0.08	J	0.1	U	0.1	U	0.02	J	0.1	U	0.1	U	0.1	U
	Dibenzo(a,h)anthracene	53-70-3	~	ug/l	0.1	U	0.08	J	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/l	0.1	U	0.47		0.06	J	0.02	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	Pyrene	129-00-0	50	ug/l	0.03	J	1		0.16		0.06	J	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
	2-Methylnaphthalene	91-57-6	~	ug/l	0.1	U	0.05	J	0.03	J	0.1	U	0.1	U	0.1	U	0.03	J	0.1	U	0.04	J	0.05	J
	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	0.8	U	0.8	U
	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	0.8	U	0.8	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	0.8	U	0.8	U
Total Metals																								
	Aluminum, Total	7429-90-5	~	ug/l	2710		3030		1420		909		1970		4880		3660		4630		193		10	U
	Antimony, Total	7440-36-0	3	ug/l	4	U	80	U	40	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U
	Arsenic, Total	7440-38-2	25	ug/l	0.6		7.87	J	4.79	J	3.15		0.56		1.38		0.85		1.74		0.21	J	0.5	U
	Barium, Total	7440-39-3	1000	ug/l	147.4		153.3		89.77		73.82		229.5		159.5		163.5		236.6		139.1		0.5	U
	Beryllium, Total	7440-41-7	3	ug/l	0.11	J	10	U	5	U	0.5	U	0.5	U	0.14	J	0.11	J	0.2	J	0.5	U	0.5	U
	Cadmium, Total	7440-43-9	5	ug/l	0.15	J	4	U	2	U	0.1	J	0.12	J	0.09	J	0.2	U	0.06	J	0.2	U	0.2	U
	Calcium, Total	7440-70-2	~	ug/l	104000		261000		179000		126000		161000		111000		85700		136000		108000		100	U
	Chromium, Total	7440-47-3	50	ug/l	9.87		20.1		3.8	J	1.96		7.03		21.28		11.65		17.56		2.81		1	U
	Cobalt, Total	7440-48-4	~	ug/l	5.98		4.33	J	1.82	J	1.03		9.76		8.88		6.93		13.84		1.05		0.5	U
	Copper, Total	7440-50-8	200	ug/l	10.6		118.7		11.82		7.91		11.52		28.72		24.16		48.33		2.56		1	U
	Iron, Total	7439-89-6	300	ug/l	4700		10800		3300		1740		3910		10000		7520		11900		604		50	U
	Lead, Total	7439-92-1	25	ug/l	2.42		100.3		158.1		72.13		1.22		3.22		2.66		5.91		0.35	J	1	U
	Magnesium, Total	7439-95-4	35000	ug/l	38800		571000		356000		315000		48600		34200		26500		52500		41000		70	U
	Manganese, Total	7439-96-5	300	ug/l	221.2		169.1		181.2		129		1251		988		370.6		464.9		163.4		1	U
	Mercury, Total	7439-97-6	0.7	ug/l	0.2	U	0.21		0.5		0.34		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
	Nickel, Total	7440-02-0	100	ug/l	13.61		24.06	J	20	U	3.82		14.63		15.79		12.13		21.82		2.38		2	U
	Potassium, Total	7440-09-7	~	ug/l	5210		159000		90100		90200		11300		9550		6500		10600		5840		100	U
	Selenium, Total	7782-49-2	10	ug/l	4.15	J	100	U	50	U	5	U	1.83	J	3.46	J	3.06	J	4.4	J	4.09	J	5	U
	Silver, Total	7440-22-4	50	ug/l	0.4	U	8	U	4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
	Sodium, Total	7440-23-5	20000	ug/l	77800		4200000		2420000		2530000		115000		16000		7290		96900		85600		100	U
	Thallium, Total	7440-28-0	0.5	ug/l	0.16	J	20	U	10	U	1	U	1	U	1	U	1	U	0.15	J	1	U	1	U
	Vanadium, Total	7440-62-2	~	ug/l	9.81		100	U	50	U	2.17	J	7.39		18.24		13.45		18.82		1.81	J	5	U
	Zinc, Total	7440-66-6	2000	ug/l	24.77		114.4	J	63.04	J	30.42		10.56		23.73		18.75		29.55		10	U	10	U
Volatile Organics by GC/MS																								
	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	2.5	U	2.5	U
	1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	0.73	J	2.5	U	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	1.7	J	1.2	J	2.5	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	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	U	1	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	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	1.5	U	1.5	U
	Tetrachloroethene	127-18-4	5	ug/l	0.5	U	11		0.18	J	0.3	J	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	2.5	U	2.5	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	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	0.5	U	0.5	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	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	0.5	U	0.5	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	0.5	U	0.5	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	0.5	U	0.5	U

Table 4. Groundwater Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION				MW-1	MW-2	MW-3	DUP-01	MW-4	MW-5	MW-6	MW-11	MW-12	FB-020222					
SAMPLING DATE				2/1/2022	2/2/2022	2/2/2022	2/2/2022	2/1/2022	2/2/2022	2/2/2022	2/1/2022	2/1/2022	2/2/2022					
PARENT SAMPLE				MW-03														
	CasNum	NYSDEC Part 703.5	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
	1,3-Dichloropropene, Total	542-75-6	~	ug/l	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
	Bromoform	75-25-2	50	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	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
	Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.16	J	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
	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
	Chloromethane	74-87-3	~	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	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
	Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	0.12	J	1	U	1	U	1	U	1	U
	Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
	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
	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
	Trichloroethene	79-01-6	5	ug/l	0.5	U	0.59		13		0.28	J	0.56		0.43	J	0.5	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
	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
	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
	Methyl tert butyl 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
	p/m-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
	o-Xylene	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
	Xylenes, Total	1330-20-7	~	ug/l	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	3.5		3.4		2.5	U	2.5	U	2.5	U
	1,2-Dichloroethene, Total	540-59-0	~	ug/l	2.5	U	2.5	U	3.5		3.4		2.5	U	2.5	U	2.5	U
	Dibromomethane	74-95-3	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	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
	Acrylonitrile	107-13-1	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	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
	Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Acetone	67-64-1	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	Vinyl acetate	108-05-4	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	4-Methyl-2-pentanone	108-10-1	~	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U
	2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	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
	2,2-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
	1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	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
	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
	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
	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
	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
	tert-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
	o-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
	p-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
	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
	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
	Isopropylbenzene	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
	p-Isopropyltoluene	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
	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
	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
	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
	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
	1,3,5-Trimethylbenzene	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
	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
	1,4-Dioxane	123-91-1	~	ug/l	250	U	250	U	250	U	250	U	250	U	250	U	250	U
	p-Diethylbenzene	105-05-5	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	p-Ethyltoluene	622-96-8	~	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	1,2,4,5-Tetramethylbenzene	95-93-2	5	ug/l	2	U	2	U	2	U	2	U	2	U	2	U	2	U
	Ethyl ether	60-29-7	~	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	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
Perfluorinated Alkyl Acids by Isotope Dilution																		
	Perfluorobutanoic Acid (PFBA)	375-22-4	0.1*	ug/l	-	-	0.00624	-	-	-	-	0.0131	0.00911	0.00879	0.0144	0.0129	0.00182	U

Table 4. Groundwater Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION					MW-1	MW-2	MW-3	DUP-01	MW-4	MW-5	MW-6	MW-11	MW-12	FB-020222		
SAMPLING DATE					2/1/2022	2/2/2022	2/2/2022	2/2/2022	2/1/2022	2/2/2022	2/2/2022	2/1/2022	2/1/2022	2/2/2022		
PARENT SAMPLE								MW-03								
		CasNum	NYSDEC Part 703.5	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.1*	ug/l	-	-	0.0144		-	-	0.0204	0.0102	0.00785	0.0318	0.0332	0.000663 J
	Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.1*	ug/l	-	-	0.00265		-	-	0.00727	0.00417	0.00373	0.00704	0.0067	0.00182 U
	Perfluorohexanoic Acid (PFHxA)	307-24-4	0.1*	ug/l	-	-	0.0117		-	-	0.0227	0.00625	0.00486	0.0272	0.0256	0.00182 U
	Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.1*	ug/l	-	-	0.00749		-	-	0.0157	0.00399	0.00383	0.0129	0.0126	0.00182 U
	Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.1*	ug/l	-	-	0.00533		-	-	0.0272	0.00294	0.00184	0.00658	0.0097	0.00182 U
	Perfluorooctanoic Acid (PFOA)	335-67-1	0.01*	ug/l	-	-	0.0287		-	-	0.0409	0.0141	0.00919	0.0233	0.0438	0.00182 U
	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00182	U
	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.1*	ug/l	-	-	0.00094	J	-	-	0.00638	0.00184	U	0.00183	U	0.000818 J
	Perfluorononanoic Acid (PFNA)	375-95-1	0.1*	ug/l	-	-	0.0026		-	-	0.00182	U	0.00142	J	0.00125	J
	Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.01*	ug/l	-	-	0.038		-	-	0.0271	0.00563	0.00447	0.00254	0.0352	0.00182 U
	Perfluorodecanoic Acid (PFDA)	335-76-2	0.1*	ug/l	-	-	0.00081	J	-	-	0.00182	U	0.000738	J	0.00128	J
	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluorooctanesulfonamide (FOSA)	754-91-6	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluorododecanoic Acid (PFDoA)	307-55-1	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.1*	ug/l	-	-	0.00182	U	-	-	0.00182	U	0.00184	U	0.00183	U
	Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.1*	ug/l	-	-	0.000508	J	-	-	0.00182	U	0.000492	J	0.000473	J
	PFOA/PFOS, Total	null	~	ug/l	-	-	0.0667		-	-	0.068	0.0197	0.0137	0.0258	0.079	0.00182 U
	PFAS, Total	null	0.5*	ug/l	-	-	0.119368		-	-	0.18075	0.05904	0.047563	0.12576	0.182128	0.001111

Notes:
NYSDEC Part 703.5 AWQS = New York State Department of Environmental Conservation Title 6 New York Codes, Rules, and Regulations Part 703.5 Ambient Water Quality Standards
Any regulatory exceedances are color coded by regulation.
ug/l = micrograms per liter
~ = no regulatory limit has been established for this analyte
- = not analyzed
* = indicates that this is a guidance value
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
B - The analyte was detected above the reporting limit in the associated method blank.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
I - The lower value for the two columns has been reported due to obvious interference.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
P - The RPD between the results for the two columns exceeds the method-specified criteria.

Table 5. Soil Vapor Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION			SV-1		SV-2		SV-3		SV-4		SV-5		SV-6		SV-7		SV-8		SV-9	
SAMPLING DATE			2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022	
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air																				
Dichlorodifluoromethane	75-71-8	ug/m3	2.8		3.54		3.63		2.56		65.8		3.4		608		5.14		171	
Chloromethane	74-87-3	ug/m3	1.08		0.779		0.5		1.36		2.66		1.62		2.31		0.413	U	0.684	
Freon-114	76-14-2	ug/m3	1.4	U	1.4	U	1.55	U	1.4	U	8.74	U	4.11	U	7.76	U	1.4	U	1.4	U
Vinyl chloride	75-01-4	ug/m3	0.511	U	0.511	U	0.567	U	0.511	U	3.2	U	1.5	U	2.84	U	0.511	U	0.511	U
1,3-Butadiene	106-99-0	ug/m3	0.442	U	0.442	U	0.491	U	0.442	U	2.77	U	1.3	U	3.41		0.442	U	0.442	U
Bromomethane	74-83-9	ug/m3	0.777	U	0.777	U	0.862	U	0.777	U	4.85	U	2.28	U	4.31	U	0.777	U	0.777	U
Chloroethane	75-00-3	ug/m3	0.528	U	0.528	U	0.586	U	0.528	U	3.3	U	1.55	U	2.93	U	0.528	U	0.528	U
Ethanol	64-17-5	ug/m3	123		224		172		12.9		156		54.8		157		13.6		32	
Vinyl bromide	593-60-2	ug/m3	0.874	U	0.874	U	0.971	U	0.874	U	5.47	U	2.57	U	4.85	U	0.874	U	0.874	U
Acetone	67-64-1	ug/m3	97.4		404		69.8		197		1430		3470		3940		1080		656	
Trichlorofluoromethane	75-69-4	ug/m3	1.73		9.22		3.56		1.56		8.2		12.8		23.3		2.16		7.19	
Isopropanol	67-63-0	ug/m3	4.03		5.21		4.87		2.05		28		8.38		36.1		1.87		6.44	
1,1-Dichloroethene	75-35-4	ug/m3	0.793	U	0.793	U	32.9		0.793	U	4.96	U	2.33	U	4.4	U	0.793	U	0.793	U
Tertiary butyl Alcohol	75-65-0	ug/m3	2.3		5.24		2.89		1.75		131		33.3		146		4.91		27.9	
Methylene chloride	75-09-2	ug/m3	1.74	U	1.74	U	1.93	U	2.48		10.8	U	5.11	U	9.66	U	1.74	U	1.74	U
3-Chloropropene	107-05-1	ug/m3	0.626	U	0.626	U	0.695	U	0.626	U	3.91	U	1.84	U	3.47	U	0.626	U	0.626	U
Carbon disulfide	75-15-0	ug/m3	0.623	U	0.623	U	0.691	U	0.623	U	3.89	U	1.83	U	9.34		0.623	U	0.623	U
Freon-113	76-13-1	ug/m3	1.53	U	1.53	U	1.7	U	1.53	U	9.58	U	4.51	U	8.51	U	1.53	U	1.53	U
trans-1,2-Dichloroethene	156-60-5	ug/m3	0.793	U	0.793	U	0.88	U	0.793	U	4.96	U	2.33	U	4.4	U	0.793	U	0.793	U
1,1-Dichloroethane	75-34-3	ug/m3	0.809	U	0.809	U	8.99		0.809	U	41.3		2.38	U	4.49	U	0.809	U	0.809	U
Methyl tert butyl ether	1634-04-4	ug/m3	0.721	U	0.721	U	0.8	U	0.721	U	4.51	U	2.12	U	4	U	0.721	U	0.721	U
2-Butanone	78-93-3	ug/m3	2.55		4.13		2.67		2.42		39.8		23.7		61.3		7.52		13.4	
cis-1,2-Dichloroethene	156-59-2	ug/m3	0.793	U	0.793	U	0.88	U	0.793	U	16.9		2.33	U	4.4	U	0.793	U	0.793	U
Ethyl Acetate	141-78-6	ug/m3	1.8	U	1.8	U	2	U	1.8	U	11.2	U	5.3	U	10	U	1.8	U	1.8	U
Chloroform	67-66-3	ug/m3	0.977	U	0.977	U	1.08	U	0.977	U	6.1	U	2.87	U	5.42	U	0.977	U	0.977	U
Tetrahydrofuran	109-99-9	ug/m3	1.47	U	1.47	U	2.02	U	1.47	U	9.2	U	4.34	U	8.2	U	1.47	U	1.47	U
1,2-Dichloroethane	107-06-2	ug/m3	0.809	U	0.809	U	0.899	U	0.809	U	5.06	U	2.38	U	4.49	U	0.809	U	0.809	U
n-Hexane	110-54-3	ug/m3	2.77		1.46		2.07		0.705		10.8		2.48		25		0.705	U	5.11	
1,1,1-Trichloroethane	71-55-6	ug/m3	11.4		7.15		606		1.09	U	316		3.21	U	6.06	U	1.09	U	1.09	U
Benzene	71-43-2	ug/m3	2.68		1.36		1.19		0.799		5.62		1.88	U	6.49		0.639	U	1.04	
Carbon tetrachloride	56-23-5	ug/m3	1.26	U	1.26	U	1.4	U	1.26	U	7.86	U	3.7	U	6.98	U	1.26	U	1.26	U
Cyclohexane	110-82-7	ug/m3	1.37		0.757		0.781		0.688	U	5.2		2.02	U	5.51		0.688	U	0.957	
1,2-Dichloropropane	78-87-5	ug/m3	0.924	U	0.924	U	1.03	U	0.924	U	5.78	U	2.72	U	5.13	U	0.924	U	0.924	U
Bromodichloromethane	75-27-4	ug/m3	1.34	U	1.34	U	1.49	U	1.34	U	8.37	U	3.94	U	7.44	U	1.34	U	1.34	U
1,4-Dioxane	123-91-1	ug/m3	0.721	U	0.721	U	0.8	U	0.721	U	4.5	U	2.12	U	4	U	0.721	U	0.721	U
Trichloroethene	79-01-6	ug/m3	1.07	U	1.07	U	1.19	U	1.07	U	23.2		3.16	U	5.97	U	1.07	U	1.07	U
2,2,4-Trimethylpentane	540-84-1	ug/m3	2.74		1.03		1.04	U	0.934	U	5.84	U	2.75	U	5.18	U	0.934	U	1.29	
Heptane	142-82-5	ug/m3	2.34		0.979		3.38		0.82	U	5.12	U	2.41	U	5.98		0.82	U	0.975	
cis-1,3-Dichloropropene	10061-01-5	ug/m3	0.908	U	0.908	U	1.01	U	0.908	U	5.67	U	2.67	U	5.04	U	0.908	U	0.908	U
4-Methyl-2-pentanone	108-10-1	ug/m3	2.05	U	2.05	U	2.28	U	2.05	U	12.8	U	6.02	U	11.4	U	2.05	U	2.05	U
trans-1,3-Dichloropropene	10061-02-6	ug/m3	0.908	U	0.908	U	1.01	U	0.908	U	5.67	U	2.67	U	5.04	U	0.908	U	0.908	U
1,1,2-Trichloroethane	79-00-5	ug/m3	1.09	U	1.09	U	1.21	U	1.09	U	6.82	U	3.21	U	6.06	U	1.09	U	1.09	U
Toluene	108-88-3	ug/m3	6.75		2.69		8.86		1.65		6.52		2.22	U	12.4		0.754	U	1.48	
2-Hexanone	591-78-6	ug/m3	0.82	U	0.82	U	0.91	U	0.82	U	5.12	U	2.41	U	8.2		0.82	U	0.82	U
Dibromochloromethane	124-48-1	ug/m3	1.7	U	1.7	U	1.89	U	1.7	U	10.6	U	5.01	U	9.46	U	1.7	U	1.7	U
1,2-Dibromoethane	106-93-4	ug/m3	1.54	U	1.54	U	1.71	U	1.54	U	9.61	U	4.52	U	8.53	U	1.54	U	1.54	U
Tetrachloroethene	127-18-4	ug/m3	1.36	U	1.36	U	1.51	U	1.36	U	8.48	U	3.99	U	16.7		1.36	U	1.36	U
Chlorobenzene	108-90-7	ug/m3	0.921	U	0.921	U	1.02	U	0.921	U	5.76	U	2.71	U	5.11	U	0.921	U	0.921	U
Ethylbenzene	100-41-4	ug/m3	1.13		0.869	U	0.964	U	0.869	U	5.43	U	2.55	U	4.82	U	0.869	U	0.869	U
p/m-Xylene	179601-23-1	ug/m3	3.19		1.74	U	1.93	U	1.74	U	10.9	U	5.13	U	9.64	U	1.74	U	1.74	U
Bromoform	75-25-2	ug/m3	2.07	U	2.07	U	2.3	U	2.07	U	12.9	U	6.08	U	11.5	U	2.07	U	2.07	U
Styrene	100-42-5	ug/m3	0.852	U	0.852	U	0.945	U	0.852	U	5.32	U	2.5	U	4.73	U	0.852	U	0.852	U
1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	1.37	U	1.37	U	1.52	U	1.37	U	8.58	U	4.04	U	7.62	U	1.37	U	1.37	U
o-Xylene	95-47-6	ug/m3	1.15		0.869	U	0.964	U	0.869	U	5.43	U	2.55	U	4.82	U	0.869	U	0.869	U
4-Ethyltoluene	622-96-8	ug/m3	0.983	U	0.983	U	1.09	U	0.983	U	6.15	U	2.89	U	5.46	U	0.983	U	0.983	U
1,3,5-Trimethylbenzene	108-67-8	ug/m3	0.983	U	0.983	U	1.09	U	0.983	U	6.15	U	2.89	U	5.46	U	0.983	U	0.983	U
1,2,4-Trimethylbenzene	95-63-6	ug/m3	0.983	U	0.983	U	1.09	U	0.983	U	6.15	U	2.89	U	5.46	U	0.983	U	0.983	U
Benzyl chloride	100-44-7	ug/m3	1.04	U	1.04	U	1.15	U	1.04	U	6.47	U	3.04	U	5.75	U	1.04	U	1.04	U
1,3-Dichlorobenzene	541-73-1	ug/m3	1.2	U	1.2	U	1.33	U	1.2	U	7.52	U	3.54	U	6.67	U	1.2	U	1.2	U
1,4-Dichlorobenzene	106-46-7	ug/m3	1.2	U	1.2	U	1.33	U	1.2	U	7.52	U	3.54	U	6.67	U	1.2	U	1.2	U
1,2-Dichlorobenzene	95-50-1	ug/m3	1.2	U	1.2	U	1.33	U	1.2	U	7.52	U	3.54	U	6.67	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	120-82-1	ug/m3	1.48		1.48	U	1.65	U	1.48	U	9.28	U	4.36	U	8.24	U	1.48	U	1.48	U
Hexachlorobutadiene	87-68-3	ug/m3	2.13	U	2.13	U	2.37	U	2.13	U	13.3	U	6.27	U	11.8	U	2.13	U	2.13	U

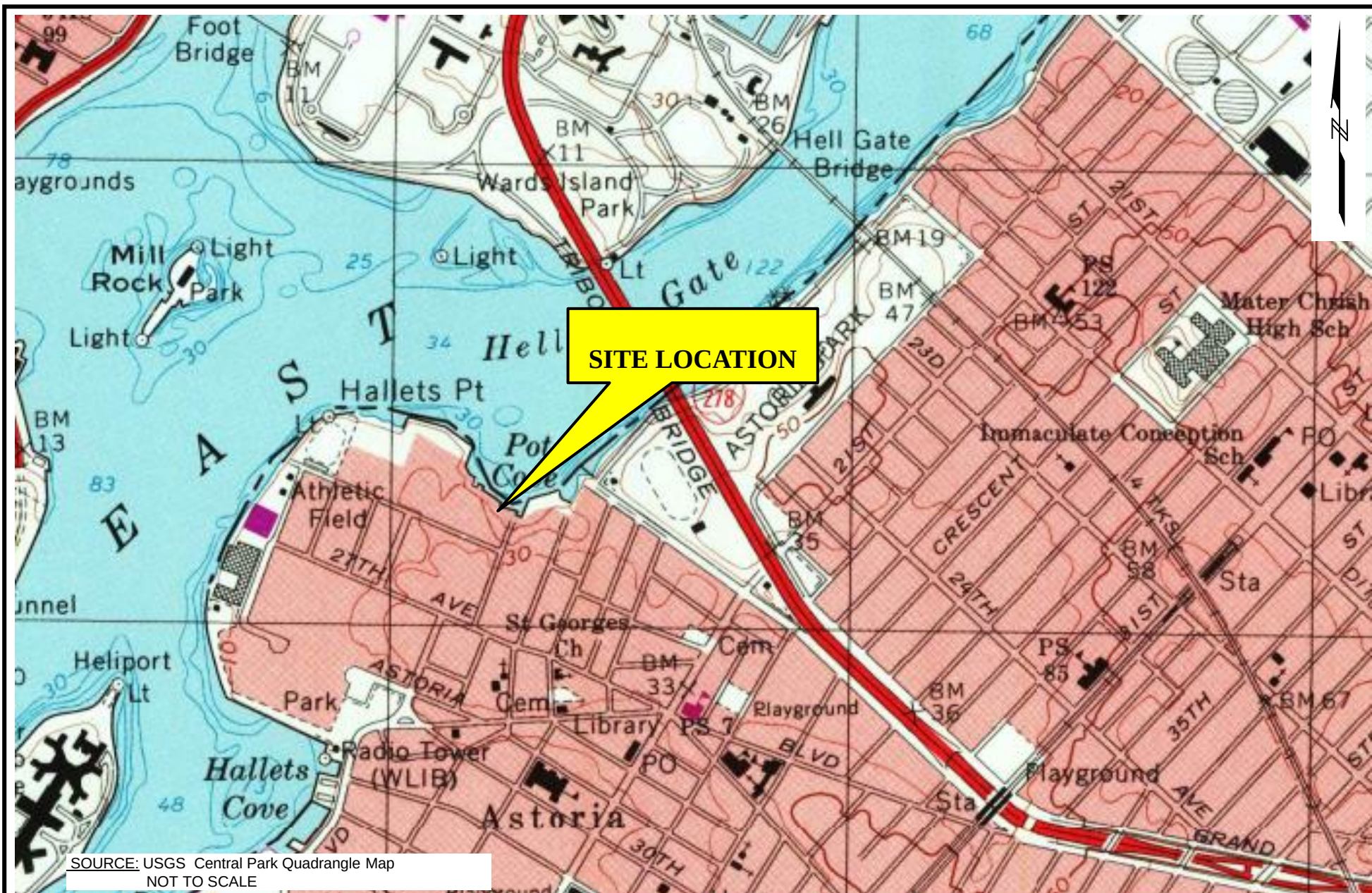
Notes:
ug/m3 = micrograms per cubic meter
- = not analyzed
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but below the reporting limit. Data is estimated.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

Table 5. Soil Vapor Sample Analytical Results
Remedial Investigation Report
Astoria Cove
26-10 9th Street
Astoria, New York

LOCATION			SV-10		SV-11		SV-12		SV-13		SV-13		SV-14		SV-14		SV-15	
SAMPLING DATE			2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022		2/2/2022	
	CasNum	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air																		
	Dichlorodifluoromethane	75-71-8	ug/m3	51.4			2.48		39.9		40.2		-	-	4.43	-	-	3.18
	Chloromethane	74-87-3	ug/m3	2.29	U		0.733		1.45		1.36		-	-	2.01	-	-	0.681
	Freon-114	76-14-2	ug/m3	7.76	U		1.4	U	3.04	U	1.4	U	-	-	5.82	U	-	1.4
	Vinyl chloride	75-01-4	ug/m3	2.84	U		0.511	U	1.11	U	0.511	U	-	-	2.13	U	-	0.511
	1,3-Butadiene	106-99-0	ug/m3	2.46	U		0.442	U	0.962	U	0.442	U	-	-	1.84	U	-	0.442
	Bromomethane	74-83-9	ug/m3	4.31	U		0.777	U	1.69	U	0.777	U	-	-	3.23	U	-	0.777
	Chloroethane	75-00-3	ug/m3	2.93	U		0.528	U	1.15	U	0.528	U	-	-	2.2	U	-	0.528
	Ethanol	64-17-5	ug/m3	78			39.9		52.2		42.4		-	-	70.1	-	-	18.6
	Vinyl bromide	593-60-2	ug/m3	4.85	U		0.874	U	1.9	U	0.874	U	-	-	3.64	U	-	0.874
	Acetone	67-64-1	ug/m3	5700			1100		2330		1970	E	2300		5040	E	4660	765
	Trichlorofluoromethane	75-69-4	ug/m3	6.24	U		1.49		6.97		6.97		-	-	4.68	U	-	9.22
	Isopropanol	67-63-0	ug/m3	11.8			7.79		11.8		8.6		-	-	10.3		-	5.58
	1,1-Dichloroethene	75-35-4	ug/m3	4.4	U		0.793	U	1.72	U	0.793	U	-	-	3.3	U	-	0.793
	Tertiary butyl Alcohol	75-65-0	ug/m3	34.9			30.9		25.5		27.4		-	-	30.9		-	15.2
	Methylene chloride	75-09-2	ug/m3	9.66	U		1.74	U	3.79	U	6.39		-	-	7.23	U	-	1.74
	3-Chloropropene	107-05-1	ug/m3	3.47	U		0.626	U	1.36	U	0.626	U	-	-	2.61	U	-	0.626
	Carbon disulfide	75-15-0	ug/m3	3.46	U		0.623	U	1.35	U	0.623	U	-	-	2.59	U	-	0.623
	Freon-113	76-13-1	ug/m3	8.51	U		1.53	U	3.33	U	1.53	U	-	-	6.38	U	-	1.53
	trans-1,2-Dichloroethene	156-60-5	ug/m3	4.4	U		0.793	U	1.72	U	0.793	U	-	-	3.3	U	-	0.793
	1,1-Dichloroethane	75-34-3	ug/m3	4.49	U		0.809	U	1.76	U	0.809	U	-	-	3.37	U	-	0.809
	Methyl tert butyl ether	1634-04-4	ug/m3	4	U		0.721	U	1.57	U	0.721	U	-	-	3	U	-	0.721
	2-Butanone	78-93-3	ug/m3	46.3			20.4		9.79		14.5		-	-	18.6		-	11.9
	cis-1,2-Dichloroethene	156-59-2	ug/m3	4.4	U		0.793	U	1.72	U	0.793	U	-	-	3.3	U	-	0.793
	Ethyl Acetate	141-78-6	ug/m3	10	U		1.8	U	3.93	U	1.8	U	-	-	7.5	U	-	1.8
	Chloroform	67-66-3	ug/m3	5.42	U		0.977	U	2.12	U	0.977	U	-	-	4.07	U	-	0.977
	Tetrahydrofuran	109-99-9	ug/m3	8.2	U		1.47	U	3.21	U	1.47	U	-	-	6.13	U	-	1.8
	1,2-Dichloroethane	107-06-2	ug/m3	4.49	U		0.809	U	1.76	U	0.809	U	-	-	3.37	U	-	0.809
	n-Hexane	110-54-3	ug/m3	3.91	U		1.66		1.53	U	2.34		-	-	5.36		-	2.59
	1,1,1-Trichloroethane	71-55-6	ug/m3	6.06	U		1.09	U	2.37	U	1.09	U	-	-	4.54	U	-	4.82
	Benzene	71-43-2	ug/m3	3.55	U		1.05		1.39	U	1.3		-	-	2.66	U	-	1.64
	Carbon tetrachloride	56-23-5	ug/m3	6.98	U		1.26	U	2.74	U	1.26	U	-	-	5.24	U	-	1.26
	Cyclohexane	110-82-7	ug/m3	3.82	U		1.05		1.5	U	1.32		-	-	2.87	U	-	4.03
	1,2-Dichloropropane	78-87-5	ug/m3	5.13	U		0.924	U	2.01	U	0.924	U	-	-	3.85	U	-	0.924
	Bromodichloromethane	75-27-4	ug/m3	7.44	U		1.34	U	2.91	U	1.34	U	-	-	5.58	U	-	1.34
	1,4-Dioxane	123-91-1	ug/m3	4	U		0.721	U	1.57	U	0.721	U	-	-	3	U	-	0.721
	Trichloroethene	79-01-6	ug/m3	5.97	U		1.07	U	2.34	U	1.07	U	-	-	4.48	U	-	1.07
	2,2,4-Trimethylpentane	540-84-1	ug/m3	5.18	U		0.934	U	2.03	U	0.934	U	-	-	3.89	U	-	0.934
	Heptane	142-82-5	ug/m3	4.55	U		1.09		1.78	U	1.11		-	-	3.41	U	-	3.31
	cis-1,3-Dichloropropene	10061-01-5	ug/m3	5.04	U		0.908	U	1.97	U	0.908	U	-	-	3.78	U	-	0.908
	4-Methyl-2-pentanone	108-10-1	ug/m3	11.4	U		2.05	U	4.47	U	2.05	U	-	-	8.52	U	-	2.05
	trans-1,3-Dichloropropene	10061-02-6	ug/m3	5.04	U		0.908	U	1.97	U	0.908	U	-	-	3.78	U	-	0.908
	1,1,2-Trichloroethane	79-00-5	ug/m3	6.06	U		1.09	U	2.37	U	1.09	U	-	-	4.54	U	-	1.09
	Toluene	108-88-3	ug/m3	4.18	U		1.36		1.64	U	1.61		-	-	3.14	U	-	3
	2-Hexanone	591-78-6	ug/m3	4.55	U		0.82	U	1.78	U	0.82	U	-	-	3.41	U	-	0.82
	Dibromochloromethane	124-48-1	ug/m3	9.46	U		1.7	U	3.71	U	1.7	U	-	-	7.1	U	-	1.7
	1,2-Dibromoethane	106-93-4	ug/m3	8.53	U		1.54	U	3.34	U	1.54	U	-	-	6.4	U	-	1.54
	Tetrachloroethene	127-18-4	ug/m3	7.53	U		1.36	U	2.95	U	10.4		-	-	5.65	U	-	1.51
	Chlorobenzene	108-90-7	ug/m3	5.11	U		0.921	U	2	U	0.921	U	-	-	3.84	U	-	0.921
	Ethylbenzene	100-41-4	ug/m3	4.82	U		0.869	U	1.89	U	0.869	U	-	-	3.62	U	-	0.869
	p/m-Xylene	179601-23-1	ug/m3	9.64	U		1.74	U	3.78	U	1.74	U	-	-	7.25	U	-	1.74
	Bromoform	75-25-2	ug/m3	11.5	U		2.07	U	4.5	U	2.07	U	-	-	8.61	U	-	2.07
	Styrene	100-42-5	ug/m3	4.73	U		0.852	U	1.85	U	0.852	U	-	-	3.55	U	-	0.852
	1,1,2,2-Tetrachloroethane	79-34-5	ug/m3	7.62	U		1.37	U	2.99	U	1.37	U	-	-	5.72	U	-	1.37
	o-Xylene	95-47-6	ug/m3	4.82	U		0.869	U	1.89	U	0.869	U	-	-	3.62	U	-	0.869
	4-Ethyltoluene	622-96-8	ug/m3	5.46	U		0.983	U	2.14	U	0.983	U	-	-	4.1	U	-	0.983
	1,3,5-Trimethylbenzene	108-67-8	ug/m3	5.46	U		0.983	U	2.14	U	0.983	U	-	-	4.1	U	-	0.983
	1,2,4-Trimethylbenzene	95-63-6	ug/m3	5.46	U		0.983	U	2.14	U	0.983	U	-	-	4.1	U	-	0.983
	Benzyl chloride	100-44-7	ug/m3	5.75	U		1.04	U	2.25	U	1.04	U	-	-	4.31	U	-	1.04
	1,3-Dichlorobenzene	541-73-1	ug/m3	6.67	U		1.2	U	2.62	U	1.2	U	-	-	5.01	U	-	1.2
	1,4-Dichlorobenzene	106-46-7	ug/m3	6.67	U		1.2	U	2.62	U	1.2	U	-	-	5.01	U	-	1.2
	1,2-Dichlorobenzene	95-50-1	ug/m3	6.67	U		1.2	U	2.62	U	1.2	U	-	-	5.01	U	-	1.2
	1,2,4-Trichlorobenzene	120-82-1	ug/m3	8.24	U		1.48	U	3.23	U	1.48	U	-	-	6.18	U	-	1.48
	Hexachlorobutadiene	87-68-3	ug/m3	11.8	U		2.13	U	4.64	U	2.13	U	-	-	8.89	U	-	2.13

Notes:
ug/m3 = micrograms per cubic meter
- = not analyzed
Qual is the qualifier column with definitions as follows:
U - Not detected at the reported detection limit for the sample.
J - The analyte was detected at or above the method detection limit but b
E - Concentration of analyte exceeds the range of the calibration curve a
F - The ratio of quantifier ion response to qualifier ion response falls out

Figures



REMEDIAL INVESTIGATION REPORT
ASTORIA COVE
26-10 9TH STREET
ASTORIA, NEW YORK

ASTORIA COVE PHASE 1, LLC
NEW YORK, NEW YORK

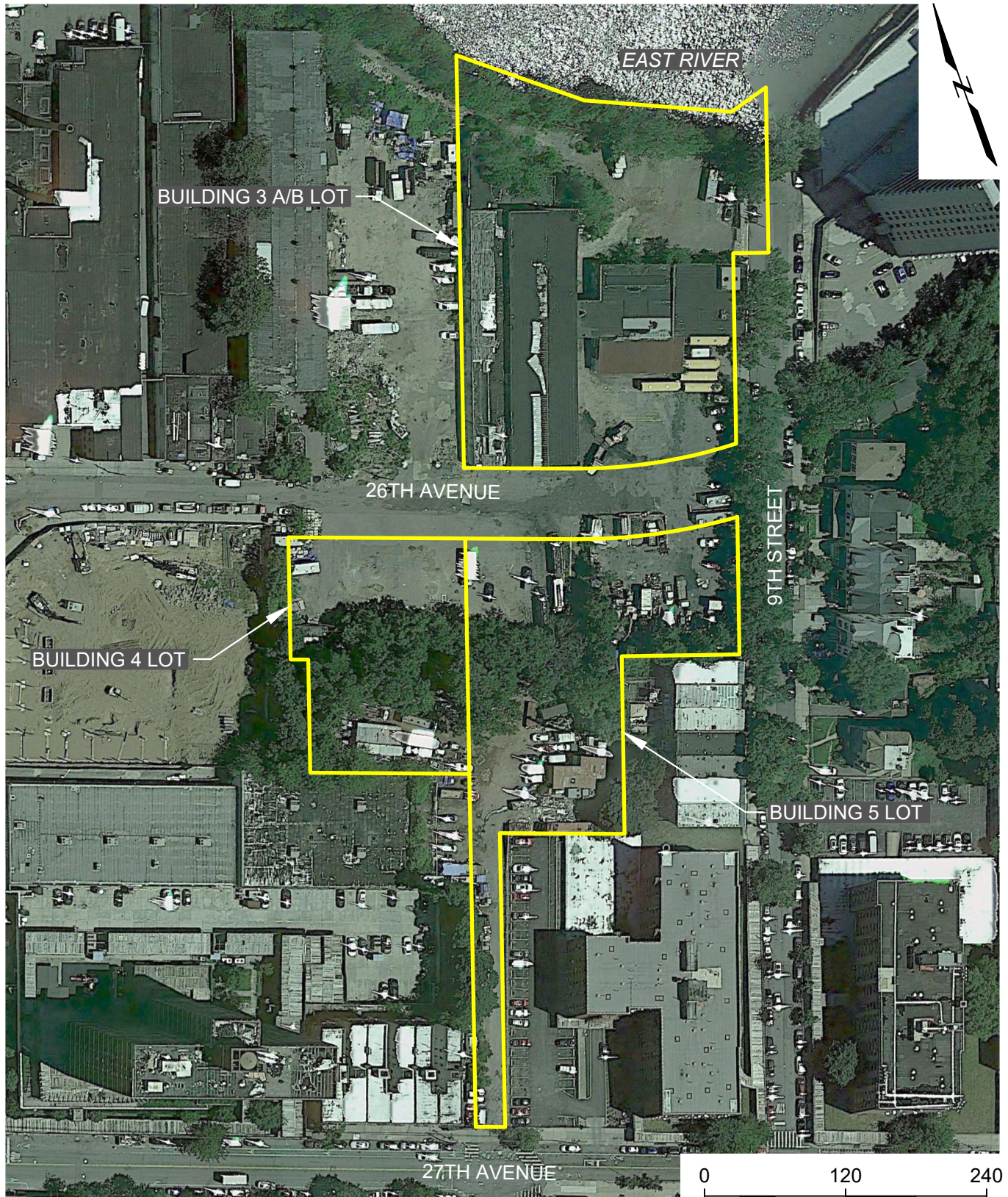


Project 2104337

SITE LOCATION MAP

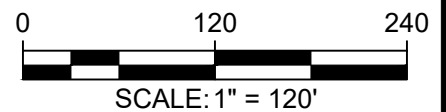
April 2022

Fig. 1



SOURCE:

GOOGLE EARTH PRO, IMAGERY DATE 6/22/2021.



Remedial Investigation Report
26-10 9th Street
Astoria, New York

Astoria Cove Phase 1, LLC
New York, New York

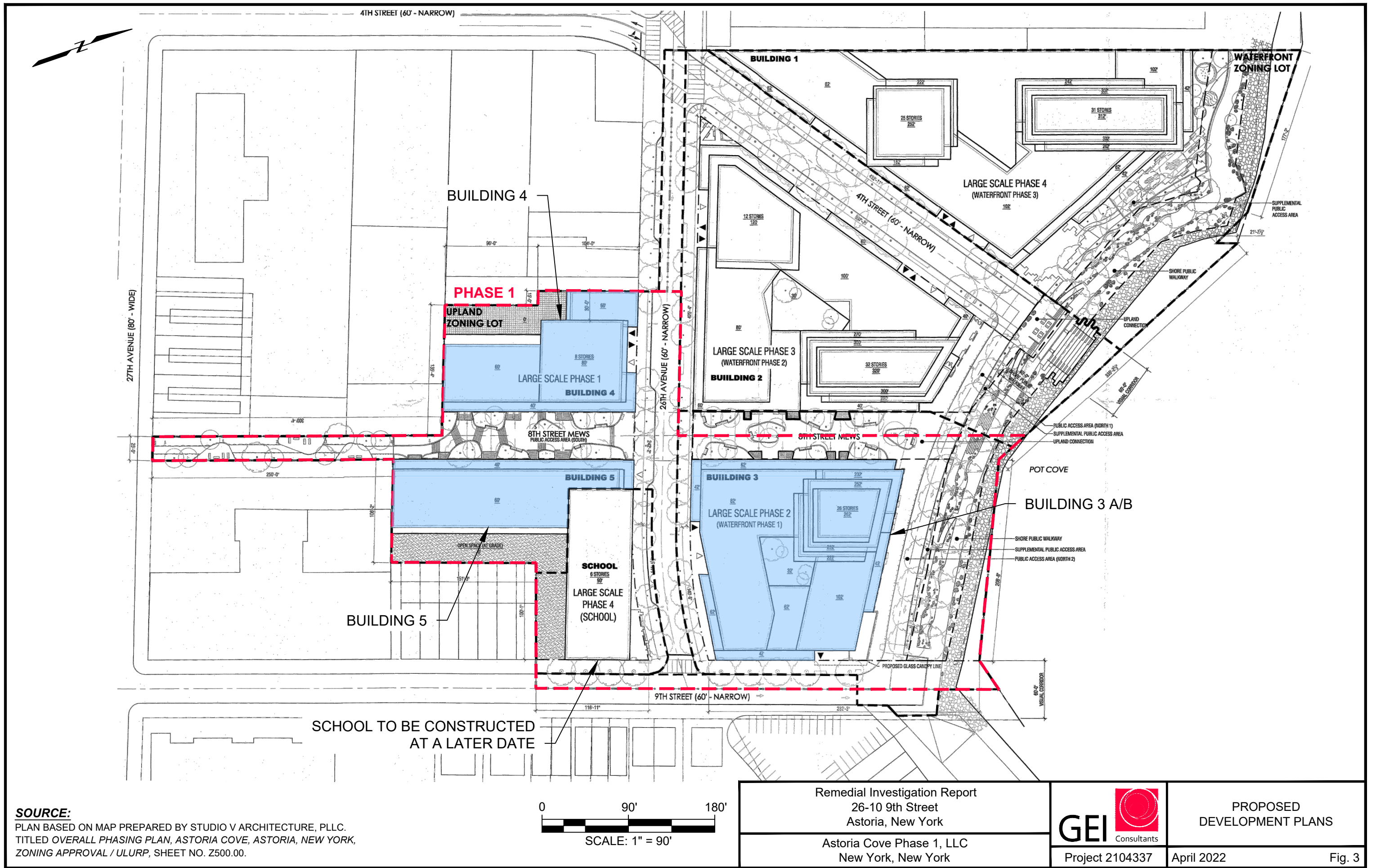


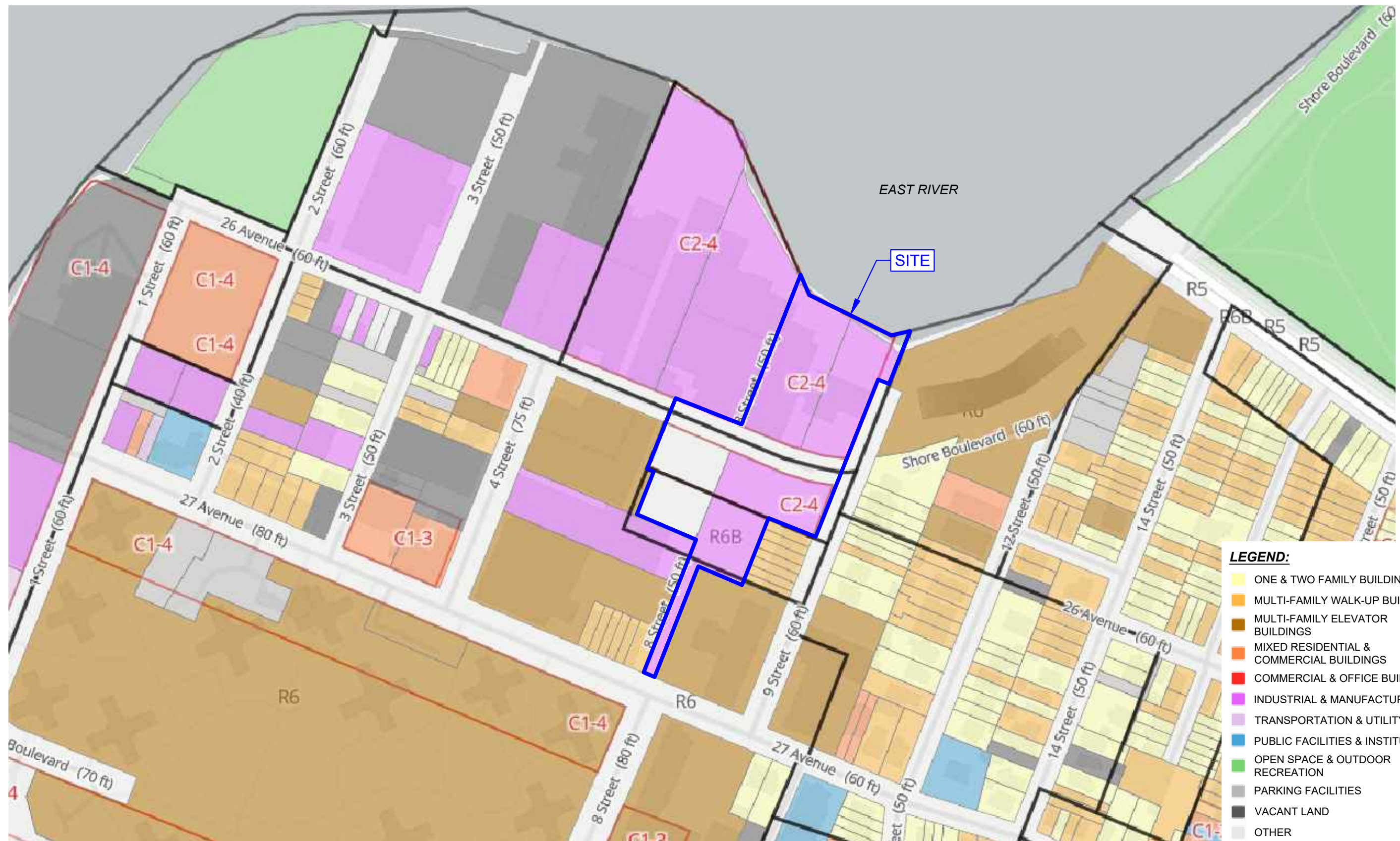
Project 2104337

SITE BOUNDARY

April 2022

Fig. 2





0 200 400
SCALE: 1" = 200'

Remedial Investigation Report
26-10 9th Street
Astoria, New York

Astoria Cove Phase 1, LLC
New York, New York

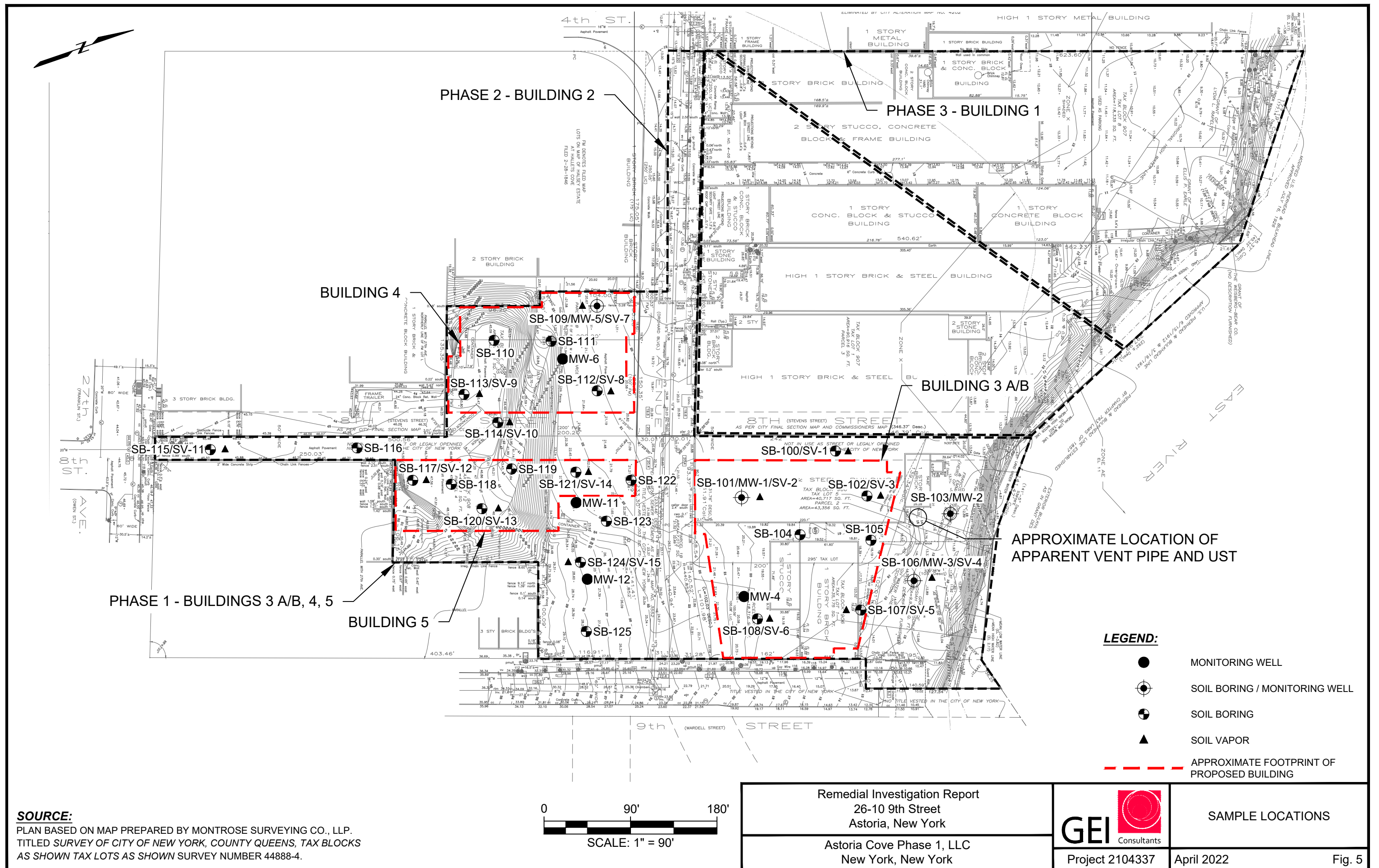


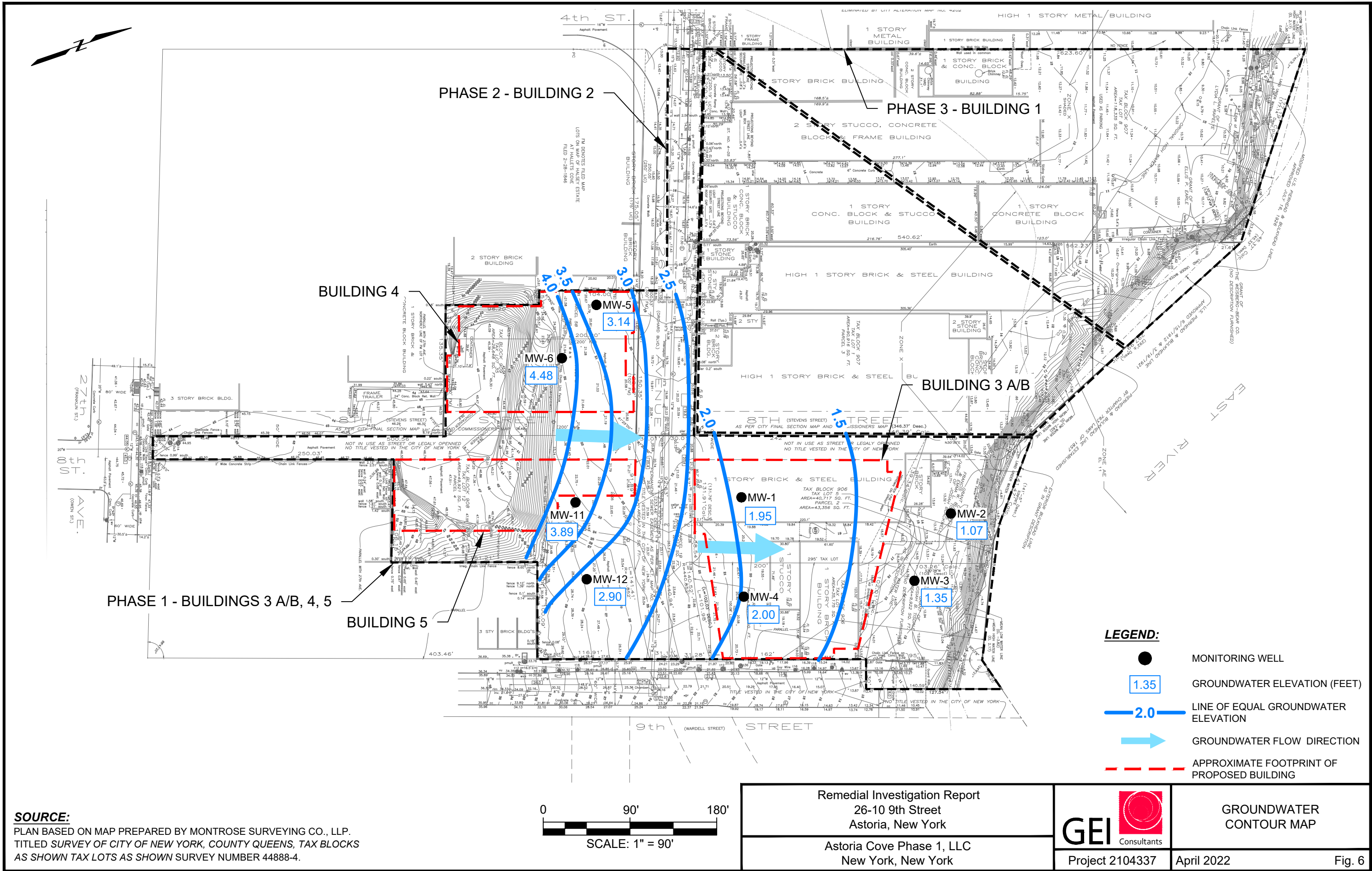
SURROUNDING LAND USE

Project 2104337

April 2022

Fig. 4







LOCATION:			SB-110		
SAMPLE DEPTH (ft.):			0-2		
SAMPLING DATE:			1/27/2022		
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
Semivolatile Organics by GC/MS					
Benzo(a)anthracene	1	1	mg/kg	1.3	
Benzo(a)pyrene	1	1	mg/kg	1.1	
Benzo(b)fluoranthene	1	1	mg/kg	1.4	
Chrysene	1	3.9	mg/kg	1.2	
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	0.76	
Total Metals					
Lead, Total	63	400	mg/kg	74.3	

LOCATION:				SB-109	
SAMPLE DEPTH (ft.):				0-2	
SAMPLING DATE:				1/24/2022	
		TRACK 1 SCOS	TRACK 2 SCOS	Units	Results Qual
Perfluorinated Alkyl Acids by Isotope Dilution					
PFOS	0.00088*	0.044*	mg/kg	0.0012	

LOCATION:		SB-111						
SAMPLE DEPTH (ft.):		0-2				24-36		
SAMPLING DATE:		1/24/2022				1/24/2022		
TRACK 1 SCOS		TRACK 2 SCOS		Units	Results	Qual	Results	Qual
Polychlorinated Biphenyls by GC								
PCBs, Total	0.1	1	mg/kg	0.171	-	-	0.0355	U
Organochlorine Pesticides by GC								
4,4'-DDT	0.0033	7.9	mg/kg	0.0093	-	-	0.0032	U
Total Metals								
Copper, Total	50	270	mg/kg	22.6	-	-	55.4	
Lead, Total	63	400	mg/kg	127	-	-	32.2	J

LOCATION:			SB-112						
SAMPLE DEPTH (ft.):			0-2			17-19			
SAMPLING DATE:			1/24/2022		1/24/2022		1/24/2022		
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual
General Chemistry									
	30	180	mg/kg	17	-	-	39	J	
Chromium, Trivalent									
Volatile Organics by EPA 5035									
Acetone	0.05	100	mg/kg	0.12	-	-	0.0086	J	

LOCATION:				SB-101	
SAMPLE DEPTH (ft.):				11.5-13.5	
SAMPLING DATE:				1/26/2022	
		TRACK 1 SCOS	TRACK 2 SCOS	Units	Results
General Chemistry					
Chromium, Trivalent		30	180	mg/ka	34

LOCATION:			SB-100		
SAMPLE DEPTH (ft.):			0-2		
SAMPLING DATE:			1/26/2022		
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
Total Metals					
Copper, Total	50	270	mg/ka	121	

LOCATION:				SB-102	
SAMPLE DEPTH (ft.):				0-2	
SAMPLING DATE:				1/26/2022	
TRACK 1 SCOS		TRACK 2 SCOS		Units	Results
Total Metals					
Copper, Total	50	270	mg/kg	72.1	
Volatile Organics by EPA 5035					
Acetone	0.05	100	mg/kg	0.12	

LOCATION:					SB-113		
SAMPLE DEPTH (ft.):					0-2		
SAMPLING DATE:					1/27/2022		
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual
Organochlorine Pesticides by GC							
4,4'-DDE	0.0033	8.9	mg/kg	0.0129		-	-
Semivolatile Organics by GC/MS							
Benzo(a)anthracene	1	1	mg/kg	87	E	110	
Benzo(a)pyrene	1	1	mg/kg	74	E	100	
Benzo(b)fluoranthene	1	1	mg/kg	120	E	150	
Benzo(k)fluoranthene	0.8	3.9	mg/kg	12		-	-
Chrysene	1	3.9	mg/kg	62	E	110	
Dibenzo(a,h)anthracene	0.33	0.33	mg/kg	5.3		-	-
Dibenzofuran	7	59	mg/kg	8.4		-	-
Fluoranthene	100	100	mg/kg	100	E	280	
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	62	E	80	
Phenanthrene	100	100	mg/kg	84	E	160	
Pyrene	100	100	mg/kg	90	E	200	
Total Metals							
Lead, Total	63	400	mg/kg	79.2		-	-
Perfluorinated Alkyl Acids by Isotope Dilution							
PFOS	0.00088*	0.044*	mg/kg	0.0018	F	-	-

LOCATION:				SB-116	
SAMPLE DEPTH (ft.):				0-2	
SAMPLING DATE:				1/28/2022	
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
General Chemistry					
Chromium, Trivalent	30	180	mg/kg	32	J

LOCATION:			SB-115		
SAMPLE DEPTH (ft.):			0-2		
SAMPLING DATE:			1/28/2022		
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
Semivolatile Organics by GC/MS					
Benzo(a)anthracene	1	1	mg/kg	1.3	
Benzo(a)pyrene	1	1	mg/kg	1.6	
Benzo(b)fluoranthene	1	1	mg/kg	2.4	
Chrysene	1	3.9	mg/kg	1.5	
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	1.3	

LOCATION:			SB-117		DUP-43	
SAMPLE DEPTH (ft.):			0-2		0-2	
SAMPLING DATE			1/28/2022			
PARENT SAMPLE					SB-117(0-2)	
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results
General Chemistry						
Chromium, Trivalent	30	180	mg/kg	66		240
Total Metals						
Nickel, Total	30	310	mg/kg	30		93.7
Zinc, Total	109	10000	mg/kg	57.9		122

LOCATION:			SB-114				
SAMPLE DEPTH (ft.):			0-2		3-5		
SAMPLING DATE:			1/28/2022				
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual	Results	Qual
Organochlorine Pesticides by GC							
4,4'-DDE	0.0033	8.9	mg/kg	0.0172	U	0.0042	
4,4'-DDT	0.0033	7.9	mg/kg	0.0322	U	0.0042	
Semivolatile Organics by GC/MS							
Benzo(a)anthracene	1	1	mg/kg	1.9		2.9	
Benzo(a)pyrene	1	1	mg/kg	2.1		3.2	
Benzo(b)fluoranthene	1	1	mg/kg	2.9		4.3	
Benzo(k)fluoranthene	0.8	3.9	mg/kg	0.94		1.3	
Chrysene	1	3.9	mg/kg	2		3.1	
Dibenzo(a,h)anthracene	0.33	0.33	mg/kg	0.36	J	0.5	
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	1.8		2.6	
Total Metals							
Lead, Total	63	400	mg/kg	333		134	
Mercury, Total	0.18	0.81	mg/kg	0.103		0.331	
Zinc, Total	109	10000	mg/kg	201		114	

LOCATION:				SB-120	
SAMPLE DEPTH (ft.):				0-2	
SAMPLING DATE:				1/28/2022	
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
Total Metals					
Copper, Total	50	270	mg/kg	87.6	
Lead, Total	63	400	mg/kg	158	
Mercury, Total	0.18	0.81	mg/kg	0.401	
Zinc, Total	109	10000	mg/kg	111	

LOCATION:				SB-119
SAMPLE DEPTH (ft.):				0-2
SAMPLING DATE:				1/28/2022
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results Qual
Semivolatile Organics by GC/MS				
Benzo(a)anthracene	1	1	mg/kg	1.1
Benzo(a)pyrene	1	1	mg/kg	1.1
Benzo(b)fluoranthene	1	1	mg/kg	1.4
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	0.85

LOCATION:				SB-124				
SAMPLE DEPTH (ft.):				0-2				
SAMPLING DATE:				1/24/2022				
TRACK 1 SCOS		TRACK 2 SCOS		Units	Results	Qual	Results	Qual
Total Metals								
Zinc, Total		109	10000	mg/kg	182		-	-

LOCATION:			SB-107		
SAMPLE DEPTH (ft.):			0-2		
SAMPLING DATE:			1/26/2022		1/26/2022
	TRACK 1 SCOS	TRACK 2 SCOS	Units	Results	Qual
Polychlorinated Biphenyls by GC					
PCBs, Total		1	mg/kg	1.22	-
Organochlorine Pesticides by GC					
4,4'-DDE	0.0033	8.9	mg/kg	0.00562	-
4,4'-DDD	0.0033	13	mg/kg	0.0072	IP
4,4'-DDT	0.0033	7.9	mg/kg	0.0233	-
Semivolatile Organics by GC/MS					
Benzo(a)anthracene	1	1	mg/kg	2.9	-
Benzo(a)pyrene	1	1	mg/kg	2.9	-
Benzo(b)fluoranthene	1	1	mg/kg	3.4	-
Benzo(k)fluoranthene	0.8	3.9	mg/kg	1.2	-
Chrysene	1	3.9	mg/kg	2.9	-
Dibenzo(a,h)anthracene	0.33	0.33	mg/kg	0.38	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	2	-
Total Metals					
Lead, Total	63	400	mg/kg	89.8	-
Zinc, Total	109	10000	mg/kg	175	-
Perfluorinated Alkyl Acids by Isotope Dilution					
PFOS	0.00088*	0.044*	mg/kg	0.00128	-

LOCATION:			SB-122						
SAMPLE DEPTH (ft.):			0-2			2-4			
SAMPLING DATE:			1/24/2022			1/24/2022			
TRACK 1 SCOS		TRACK 2 SCOS	Units	Results	Qual	Results	Qual	Results	Qual
Total Metals									
Zinc, Total	109	10000	mg/kg	152		-	-	182	
Volatile Organics by EPA 5035									
Acetone	0.05	100	mg/kg	0.061		0.044		0.0078	

1/26/2022

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SOURCE:
PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP.
TITLED SURVEY OF CITY OF NEW YORK, COUNTY QUEENS, TAX BLOCKS
AS SHOWN TAX LOTS AS SHOWN SURVEY NUMBER 44888-4.



Remedial Investigation Report
26-10 9th Street
Astoria, New York

Astoria Cove Phase 1, LLC
New York, New York



Project 2104337

SOIL SAMPLE
EXCEEDANCES

April 2022

Fig. 7

LOCATION:					MW-5
SAMPLING DATE:					2/2/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Manganese, Dissolved	300	ug/l	821.8		
Semivolatile Organics by GC/MS					
Phenol	1	ug/l	1.2	J	
Semivolatile Organics by GC/MS-SIM					
Benzo(a)anthracene	0.002	ug/l	0.03	J	
Benzo(b)fluoranthene	0.002	ug/l	0.02	J	
Total Metals					
Iron, Total	300	ug/l	10000		
Manganese, Total	300	ug/l	988		
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorooctanoic Acid (PFOA)	0.01*	ug/l	0.0141		

LOCATION:					MW-1
SAMPLING DATE:					2/1/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Magnesium, Dissolved	35000	ug/l	36300		
Sodium, Dissolved	20000	ug/l	80500		
Semivolatile Organics by GC/MS-SIM					
Benzo(b)fluoranthene	0.002	ug/l	0.01	J	
Total Metals					
Iron, Total	300	ug/l	4700		
Magnesium, Total	35000	ug/l	38800		
Sodium, Total	20000	ug/l	77800		

LOCATION:					MW-6
SAMPLING DATE:					2/2/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Semivolatile Organics by GC/MS					
Phenol	1	ug/l	3.3	J	
Semivolatile Organics by GC/MS-SIM					
Benzo(a)anthracene	0.002	ug/l	0.02	J	
Total Metals					
Iron, Total	300	ug/l	7520		
Manganese, Total	300	ug/l	370.6		

LOCATION:					MW-11
SAMPLING DATE:					2/1/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Magnesium, Dissolved	35000	ug/l	48000		
Sodium, Dissolved	20000	ug/l	92800		
Total Metals					
Iron, Total	300	ug/l	11900		
Magnesium, Total	35000	ug/l	52500		
Manganese, Total	300	ug/l	464.9		
Sodium, Total	20000	ug/l	96900		
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorooctanoic Acid (PFOA)	0.01*	ug/l	0.0233		

LOCATION:					MW-2
SAMPLING DATE:					2/2/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Magnesium, Dissolved	35000	ug/l	494000		
Sodium, Dissolved	20000	ug/l	4410000		
Polychlorinated Biphenyls by GC					
Aroclor 1248	0.09	ug/l	1.01		
Aroclor 1254	0.09	ug/l	1.13		
Aroclor 1260	0.09	ug/l	0.145	IP	
PCBs, Total	0.09	ug/l	2.29		
Semivolatile Organics by GC/MS					
Phenol	1	ug/l	3.9	J	
Semivolatile Organics by GC/MS-SIM					
Benzo(a)anthracene	0.002	ug/l	0.54		
Benzo(a)pyrene	0	ug/l	0.56		
Benzo(b)fluoranthene	0.002	ug/l	0.77		
Benzo(k)fluoranthene	0.002	ug/l	0.2		
Chrysene	0.002	ug/l	0.45		
Indeno(1,2,3-cd)pyrene	0.002	ug/l	0.47		
Total Metals					
Iron, Total	300	ug/l	10800		
Lead, Total	25	ug/l	100.3		
Magnesium, Total	35000	ug/l	571000		
Sodium, Total	20000	ug/l	4200000		
Volatile Organics by GC/MS					
Tetrachloroethene	5	ug/l	11		
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorooctanoic Acid (PFOA)	0.01*	ug/l	0.0287		
Perfluorooctanesulfonic Acid (PFOS)	0.01*	ug/l	0.038		

LOCATION:				MW-3		DUP-01	
SAMPLING DATE:				2/2/2022		2/2/2022	
PARENT SAMPLE:						MW-3	
	NYSDEC Part 703.5 AWQS	Units	Results	Qual	Results	Qual	
Dissolved Metals							
Magnesium, Dissolved	35000	ug/l	288000		330000		
Sodium, Dissolved	20000	ug/l	2580000		2950000		
Semivolatile Organics by GC/MS							
Phenol	1	ug/l	1.1	J	3.7	J	
Semivolatile Organics by GC/MS-SIM							
Benzo(a)anthracene	0.002	ug/l	0.09	J	0.04	J	
Benzo(a)pyrene	0	ug/l	0.08	J	0.03	J	
Benzo(b)fluoranthene	0.002	ug/l	0.12		0.04	J	
Benzo(k)fluoranthene	0.002	ug/l	0.03	J	0.01	J	
Chrysene	0.002	ug/l	0.09	J	0.03	J	
Indeno(1,2,3-cd)pyrene	0.002	ug/l	0.06	J	0.02	J	
Total Metals							
Iron, Total	300	ug/l	3300		1740		
Lead, Total	25	ug/l	158.1		72.13		
Magnesium, Total	35000	ug/l	356000		315000		
Sodium, Total	20000	ug/l	2420000		2530000		
Volatile Organics by GC/MS							
Trichloroethene	5	ug/l	13		13		

BUILDING 4

BUILDING 5

PHASE 1 - BUILDINGS 3 A/B, 4, 5

PHASE 3 - BUILDING 1

BUILDING 3 A/B

PHASE 2 - BUILDING 2

LOCATION:					MW-12
SAMPLING DATE:					2/1/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Magnesium, Dissolved	35000	ug/l	39700		
Sodium, Dissolved	20000	ug/l	80800		
Total Metals					
Iron, Total	300	ug/l	604		
Magnesium, Total	35000	ug/l	41000		
Sodium, Total	20000	ug/l	85600		
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorooctanoic Acid (PFOA)	0.01*	ug/l	0.0438		
Perfluorooctanesulfonic Acid (PFOS)	0.01*	ug/l	0.0352		

LOCATION:					MW-4
SAMPLING DATE:					2/1/2022
		NYSDEC Part 703.5 AWQS	Units	Results	Qual
Dissolved Metals					
Magnesium, Dissolved	35000	ug/l	41700		
Manganese, Dissolved	300	ug/l	1124		
Sodium, Dissolved	20000	ug/l	112000		
Total Metals					
Iron, Total	300	ug/l	3910		
Magnesium, Total	35000	ug/l	48600		
Manganese, Total	300	ug/l	1251		
Sodium, Total	20000	ug/l	115000		
Perfluorinated Alkyl Acids by Isotope Dilution					
Perfluorooctanoic Acid (PFOA)	0.01*	ug/l	0.0409		
Perfluorooctanesulfonic Acid (PFOS)	0.01*	ug/l	0.0271		

LEGEND:

- MONITORING WELL
- - - - - APPROXIMATE FOOTPRINT OF PROPOSED BUILDING
- ug/l MICROGRAMS PER LITER
- NYSDEC Part 703.5 AWQS NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TITLE 6 NEW YORK CODES, RULES, AND REGULATIONS PART 703.5 AMBIENT WATER QUALITY STANDARDS
- * INDICATES THAT THIS IS A GUIDANCE VALUE
- J THE ANALYTE WAS DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE REPORTING LIMIT. DATA IS ESTIMATED.
- I THE LOWER VALUE FOR THE TWO COLUMNS HAS BEEN REPORTED DUE TO OBVIOUS INTERFERENCE
- P THE RPD BETWEEN THE RESULTS FOR THE TWO COLUMNS EXCEEDS THE METHOD-SPECIFIED CRITERIA

SOURCE:
PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP.
TITLED SURVEY OF CITY OF NEW YORK, COUNTY QUEENS, TAX BLOCKS
AS SHOWN TAX LOTS AS SHOWN SURVEY NUMBER 44888-4.

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SCALE: 1" = 90'

Remedial Investigation Report
26-10 9th Street
Astoria, New York

Astoria Cove Phase 1, LLC
New York, New York



GROUNDWATER SAMPLE
EXCEEDANCES

Project 2104337

April 2022

Fig. 8

LOCATION:		SV-9			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	171			
Chloromethane	ug/m3	0.684			
Ethanol	ug/m3	32			
Acetone	ug/m3	656			
Trichlorofluoromethane	ug/m3	7.19			
Isopropanol	ug/m3	6.44			
Tertiary butyl Alcohol	ug/m3	27.9			
2-Butanone	ug/m3	13.4			
n-Hexane	ug/m3	5.11			
Benzene	ug/m3	1.04			
Cyclohexane	ug/m3	0.957			
2,2,4-Trimethylpentane	ug/m3	1.29			
Heptane	ug/m3	0.975			
Toluene	ug/m3	1.48			

LOCATION:		SV-10			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	51.4			
Ethanol	ug/m3	78			
Acetone	ug/m3	5700			
Isopropanol	ug/m3	11.8			
Tertiary butyl Alcohol	ug/m3	34.9			
2-Butanone	ug/m3	46.3			

LOCATION:		SV-7			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	608			
Chloromethane	ug/m3	2.31			
1,3-Butadiene	ug/m3	3.41			
Ethanol	ug/m3	157			
Acetone	ug/m3	3940			
Trichlorofluoromethane	ug/m3	23.3			
Isopropanol	ug/m3	36.1			
Tertiary butyl Alcohol	ug/m3	146			
Carbon disulfide	ug/m3	9.34			
2-Butanone	ug/m3	61.3			
n-Hexane	ug/m3	25			
Benzene	ug/m3	6.49			
Cyclohexane	ug/m3	5.51			
Heptane	ug/m3	5.98			
Toluene	ug/m3	12.4			
2-Hexanone	ug/m3	8.2			
Tetrachloroethene	ug/m3	16.7			

LOCATION:		SV-8			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	5.14			
Ethanol	ug/m3	13.6			
Acetone	ug/m3	1080			
Trichlorofluoromethane	ug/m3	2.16			
Isopropanol	ug/m3	1.87			
Tertiary butyl Alcohol	ug/m3	4.91			
2-Butanone	ug/m3	7.52			

LOCATION:		SV-2			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	3.54			
Chloromethane	ug/m3	0.779			
Ethanol	ug/m3	224			
Acetone	ug/m3	404			
Trichlorofluoromethane	ug/m3	9.22			
Isopropanol	ug/m3	5.21			
Tertiary butyl Alcohol	ug/m3	5.24			
2-Butanone	ug/m3	4.13			
n-Hexane	ug/m3	1.46			
1,1,1-Trichloroethane	ug/m3	7.15			
Benzene	ug/m3	1.36			
Cyclohexane	ug/m3	0.757			
2,2,4-Trimethylpentane	ug/m3	1.03			
Heptane	ug/m3	0.979			
Toluene	ug/m3	2.69			

LOCATION:		SV-1			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	2.8			
Chloromethane	ug/m3	1.08			
Ethanol	ug/m3	123			
Acetone	ug/m3	97.4			
Trichlorofluoromethane	ug/m3	1.73			
Isopropanol	ug/m3	4.03			
Tertiary butyl Alcohol	ug/m3	2.3			
2-Butanone	ug/m3	2.55			
n-Hexane	ug/m3	2.77			
1,1,1-Trichloroethane	ug/m3	11.4			
Benzene	ug/m3	2.68			
Cyclohexane	ug/m3	1.37			
2,2,4-Trimethylpentane	ug/m3	2.74			
Heptane	ug/m3	2.34			
Toluene	ug/m3	6.75			
Ethylbenzene	ug/m3	1.13			
p/m-Xylene	ug/m3	3.19			
o-Xylene	ug/m3	1.15			

LOCATION:		SV-11			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	2.48			
Chloromethane	ug/m3	0.733			
Ethanol	ug/m3	39.9			
Acetone	ug/m3	1100			
Trichlorofluoromethane	ug/m3	1.49			
Isopropanol	ug/m3	7.79			
Tertiary butyl Alcohol	ug/m3	30.9			
2-Butanone	ug/m3	20.4			
n-Hexane	ug/m3	1.66			
Benzene	ug/m3	1.05			
Cyclohexane	ug/m3	1.05			
Heptane	ug/m3	1.09			
Toluene	ug/m3	1.36			

LOCATION:		SV-3			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	3.63			
Chloromethane	ug/m3	0.5			
Ethanol	ug/m3	172			
Acetone	ug/m3	69.8			
Trichlorofluoromethane	ug/m3	3.56			
Isopropanol	ug/m3	4.87			
1,1-Dichloroethane	ug/m3	32.9			
Tertiary butyl Alcohol	ug/m3	2.89			
1,1-Dichloroethane	ug/m3	8.99			
2-Butanone	ug/m3	2.67			
Tetrahydrofuran	ug/m3	2.02			
n-Hexane	ug/m3	2.07			
1,1,1-Trichloroethane	ug/m3	606			
Benzene	ug/m3	1.19			
Cyclohexane	ug/m3	0.781			
Heptane	ug/m3	3.38			
Toluene	ug/m3	8.86			

LOCATION:		SV-12			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	39.9			
Chloromethane	ug/m3	1.45			
Ethanol	ug/m3	52.2			
Acetone	ug/m3	2330			
Trichlorofluoromethane	ug/m3	6.97			
Isopropanol	ug/m3	11.8			
Tertiary butyl Alcohol	ug/m3	25.5			
2-Butanone	ug/m3	9.79			

LOCATION:		SV-13		SV-13	
SAMPLING DATE:		2/2/2022		2/2/2022	
		Units	Results	Qual	Results
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	40.2	-	-	-
Chloromethane	ug/m3	1.36	-	-	-
Ethanol	ug/m3	42.4	-	-	-
Acetone	ug/m3	1970	E	2300	-
Trichlorofluoromethane	ug/m3	6.97	-	-	-
Isopropanol	ug/m3	8.6	-	-	-
Tertiary butyl Alcohol	ug/m3	27.4	-	-	-
Methylene chloride	ug/m3	6.39	-	-	-
2-Butanone	ug/m3	14.5	-	-	-
n-Hexane	ug/m3	2.34	-	-	-
Benzene	ug/m3	1.3	-	-	-
Cyclohexane	ug/m3	1.32	-	-	-
Heptane	ug/m3	1.11	-	-	-
Toluene	ug/m3	1.61	-	-	-
Tetrachloroethene	ug/m3	10.4	-	-	-

LOCATION:		SV-15			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	3.18			
Chloromethane	ug/m3	0.681			
Ethanol	ug/m3	18.6			
Acetone	ug/m3	765			
Trichlorofluoromethane	ug/m3	9.22			
Isopropanol	ug/m3	5.58			
Tertiary butyl Alcohol	ug/m3	15.2			
2-Butanone	ug/m3	11.9			
Tetrahydrofuran	ug/m3	1.8			
n-Hexane	ug/m3	2.59			
1,1,1-Trichloroethane	ug/m3	4.82			
Benzene	ug/m3	1.64			
Cyclohexane	ug/m3	4.03			
Heptane	ug/m3	3.31			
Toluene	ug/m3	3			
Tetrachloroethene	ug/m3	1.51			

LOCATION:		SV-14		SV-14	
SAMPLING DATE:		2/2/2022		2/2/2022	
		Units	Results	Qual	Results
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	4.43	-	-	-
Chloromethane	ug/m3	2.01	-	-	-
Ethanol	ug/m3	70.1	-	-	-
Acetone	ug/m3	5040	E	4660	-
Isopropanol	ug/m3	10.3	-	-	-
Tertiary butyl Alcohol	ug/m3	30.9	-	-	-
2-Butanone	ug/m3	18.6	-	-	-
n-Hexane	ug/m3	5.36	-	-	-

LOCATION:		SV-6			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	3.4			
Chloromethane	ug/m3	1.62			
Ethanol	ug/m3	54.8			
Acetone	ug/m3	3470			
Trichlorofluoromethane	ug/m3	12.8			
Isopropanol	ug/m3	8.38			
Tertiary butyl Alcohol	ug/m3	33.3			
2-Butanone	ug/m3	23.7			
n-Hexane	ug/m3	2.48			

LOCATION:		SV-5			
SAMPLING DATE:		2/2/2022			
		Units	Results	Qual	
Volatile Organics in Air					
Dichlorodifluoromethane	ug/m3	65.8			
Chloromethane	ug/m3	2.66			
Ethanol	ug/m3	156			
Acetone	ug/m3	1430			
Trichlorofluoromethane	ug/m3	8.2			
Isopropanol	ug/m3	28			
Tertiary butyl Alcohol	ug/m3	131			
1,1-Dichloroethane	ug/m3	41.3			
2-Butanone	ug/m3	39.8			
cis-1,2-Dichloroethane	ug/m3	16.9			
n-Hexane	ug/m3	10.8			
1,1,1-Trichloroethane	ug/m3	316			
Benzene	ug/m3	5.62			
Cyclohexane	ug/m3	5.2			
Trichloroethene	ug/m3	23.2			
Toluene	ug/m3	6.52			

LEGEND:

▲ SOIL VAPOR

--- APPROXIMATE FOOTPRINT OF PROPOSED BUILDING

ug/m3 MICROGRAMS PER CUBIC METER OF AIR

E CONCENTRATION OF ANALYTE EXCEEDS THE RANGE OF THE CALIBRATION CURVE AND/OR LINEAR RANGE OF THE INSTRUMENT

SOURCE:
PLAN BASED ON MAP PREPARED BY MONTROSE SURVEYING CO., LLP.
TITLED SURVEY OF CITY OF NEW YORK, COUNTY QUEENS, TAX BLOCKS
AS SHOWN TAX LOTS AS SHOWN SURVEY NUMBER 44888-4.

0 90 180
SCALE: 1" = 90'

Remedial Investigation Report
26-10 9th Street
Astoria, New York

Astoria Cove Phase 1, LLC
New York, New York



Project 2104337

SOIL VAPOR SAMPLE
DETECTIONS