HALLETTS POINT

ASTORIA, QUEENS, NEW YORK

Remedial Investigation Report

E-Designation: Site Number

Prepared for:

Halletts Vendee LLC
c/o The Durst Organization Inc.
One Bryant Park
New York, New York 10036

Prepared by:

Roux Associates, Inc.
209 Shafter Street
Islandia, New York 11749

(631) 232-2600

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Joshua Levine, P.E., am a Qualified Environmental Professional, as defined in RCNY §43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Project H Site, (E-Designation). 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.

Joshua B. Levine, P.E.		
NYS Professional Engineer #084925	Date	Signature

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 in the Halletts Point section of Astoria, Queens, New York and is identified as Block 916 Lots 1 and 10 (Famitech North), Block 490 Lot 1 (Famitech South), Block 490 Lot 11 (Zavas), and Block 915 Lot 6 (Astoria Equities) on the New York City Tax Map. Figure 1 shows the Site location and site boundaries. The Site is 6.74 acres. Currently, the Site contains four warehouse buildings and an outdoor lot used for storage of construction materials (Zavas). Two warehouse buildings are currently used by contractors for office space and equipment/materials storage (e.g., Navillus Tile Inc. in Famitech South, and Advanced Contracting Solutions, LLC in Famitech North Lot 10) and two buildings are vacant (Famitech North Lot 1 and Astoria Equities).

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of the demolition of the existing buildings and construction of a mixed-use development which includes housing, open space/esplanade, retail and parking. Although certain new buildings would include cellar space (primarily for parking), this space would be created through a combination of raising the grade around the building and limited excavation (likely less than eight feet). Construction would also entail some deeper excavation, e.g., for construction of elevator pits and certain utilities. The average depth to groundwater measured during the RI was 7.52 feet and ranged from 3.55 to 12.5 feet below land surface (bls). Layout of the proposed site development is presented in Figure 2. This RIR encompasses the proposed buildings 1-5 only as shown in Figure 2. A prior RI and RAWP were approved separately by the New York City Department of Environmental Protection (NYCDEP) for proposed buildings 6 and 7 due to their presence on the New York City Housing Authority Campus.

Summary of Past Uses of Site

Provided below are summaries of the former land uses previously identified in historic Phase I reports.

Famitech Property:

The property was historically occupied by various commercial, industrial, and utility establishments, including an apparent manufactured gas plant, a coal-fired electric generating station, several stone cutting and polishing establishments, machine works, a lumber yard, a manufacturer of masonry building blocks, a manufacturer of hampers, and a scaffold manufacturer.

Astoria Equities Property:

The property historically consisted of a portion of the Eagle Oil Works and a lumber storage yard for the Tisdale Lumber Company prior to construction of the current building. The building was constructed in 1969 and occupied by various construction and building material businesses from 1969 – 2000 (e.g., Allied Corrugated Box Corp., Mack-Chicago, Mack Allied Corp., Goodison Marble, Kemron Environmental Services) prior to its recent use by LaserTone for printing ink cartridge storage and distribution.

Zavas Property:

Based upon the Phase I, the property contained historical operations including a wood dipping operation, Iron Works company, Star Ribbon Manufacturing Company, Morey and Company Machinists, National Rayon Company, Ang & Lemin Silk Manufacturers, lumber storage, and hamper manufacturing.

Areas of Concern

The following AOCs were identified by for the Site.

Famitech (North and South)

1. Former Gas Works – Based on historical operation of a former Manufactured Gas Plant in the Famitech north parcel.
2. Historic Fill across both Famitech north and South sites due to filling operations to raise grade across the site and extend land adjacent to the East River.

Astoria Equities:

1. Areas of lumber staging as part of historic operations – potential for leaching from dip-treated wood.
2. Historic Fill across the Site.

Zavas:

1. Historic operations – 60,000gal above ground storage tank (AST) onsite used for lumber treatment
2. Historic Fill across the Site.

Summary of the Work Performed under the Remedial Investigation

Roux Associates performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 38 soil borings across the entire project Site, and collected 79 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 21 groundwater monitoring wells converted from soil borings throughout the Site to establish groundwater flow and collected 22 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 39 soil vapor probes around Site perimeter and collected 39 samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 4.75 to 8.71 feet above Queens Borough Datum.
2. Depth to groundwater ranges from 3.55 to 12.03 feet at the Site.
3. Groundwater flow is generally from east to west beneath the Site towards the East River.
4. Depth to bedrock is variable and was observed at depths ranging from 6 to 23 feet during the RI, but has historically been identified as deep as 38 feet at the Site.

5. The stratigraphy of the site, from the surface down, consists of approximately 6 to 10 feet of historic fill underlain by approximately 3 to 13 feet of sandy silt/river deposits, which is underlain by bedrock.

6. Soil samples collected during the RI showed widespread detections of SVOCs and Metals above the Part 375 Restricted Residential SCOs in surficial soil samples and sporadic detections of SVOCs and metals in isolated hotspots. VOCs were not detected in excess of the Part 375 Restricted Residential SCOs across the Site.

7. Groundwater samples collected during the RI showed relatively low level concentrations of petroleum related VOCs in isolated monitoring wells across the Site, not indicative of a significant petroleum spills.

8. Soil vapor samples collected during the RI showed low level concentrations of several chlorinated and petroleum related VOCs.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Halletts Vendee LLC is participating in the New York City Office of Environmental Remediation (NYC OER) "E"-designation program to investigate and remediate a 6.5-acre site located within the Halletts Point section of Astoria, Queens, New York. Mixed commercial and residential use is proposed for the property. The RI work was performed between November 25 and December 20, 2013. This 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 in the Halletts Point section of Astoria, Queens, New York and is identified as Block 916 Lots 1 and 10 (Famitech North), Block 490 Lot 1 (Famitech South), Block 490 Lot 11 (Zavas), and Block 915 Lot 6 (Astoria Equities) on the New York City Tax Map. Figure 1 shows the Site location and site boundaries. The Site is 6.74 acres. Currently, the Site contains four warehouse buildings and an outdoor lot used for storage of construction materials (Zavas). Two warehouse buildings are used by contractors for office space and equipment/materials storage (e.g., Navillus Tile Inc. in Famitech South, and Advanced Contracting Solutions, LLC in Famitech North Lot 10) and two buildings are vacant (Famitech North Lot 1 and Astoria Equities).

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of the demolition of the existing buildings and construction of a mixed-use development which includes housing, open space/esplanade, retail and parking. Although certain new buildings would include cellar space (primarily for parking), this space would be created through a combination of raising the grade around the building and limited excavation (likely less than eight feet). Construction would also entail some deeper excavation, e.g., for construction of elevator pits and certain utilities. The average depth to groundwater measured during the RI was 7.52 feet and ranged from 3.55 to 12.5 feet bls. Layout of the proposed site development is presented in Figure 2. This RIR encompasses the area

covered by the proposed buildings 1-5 only as shown in Figure 2. A prior RI and RAWP were approved separately for proposed buildings 6 and 7 due to their presence on the New York City Housing Authority (NYCHA) Campus.

1.3 Description of Surrounding Property

A description of surrounding properties is provided below.

Famitech (North and South) Property

North	26th Avenue, Whitey Ford Field (NYC Department of Parks and Recreation) further north
South	Storage yard for Allied Building Products Corp (Zavas Property)
East	1st Street, 27th Avenue; Astoria Houses (NYCHA); Marble Techniques Inc.; LaserTone Inc.
West	East River

Astoria Equities Property

North	26th Avenue, Whitey Ford Field (NYC Department of Parks and Recreation) further north
South	Custom CAS Inc. (woodworking), 27th Avenue further South
East	Residential apartments; 2nd Street
West	Famitech Property; 1st Street

Zavas Property

North	Famitech South property
South	Halletts Point Playground
East	1st Street, Astoria Houses (NYCHA) further east
West	East River

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Famitech Property (North and South):

The property was historically occupied by various commercial, industrial, and utility establishments, including an apparent coal gasification plant, a coal-fired electric generating station, several stone cutting and polishing establishments, machine works, a lumber yard, a manufacturer of masonry building blocks, a manufacturer of hampers, and a scaffold manufacturer.

Astoria Equities Property:

The property historically consisted of a portion of the Eagle Oil Works and a lumber storage yard for the Tisdale Lumber Company prior to construction of the current building. The building was constructed in 1969 and occupied by various construction and building material businesses from 1969 – 2000 (e.g., Allied Corrugated Box Corp., Mack-Chicago, Mack Allied Corp., Goodison Marble, Kemron Environmental Services) prior to its current use by LaserTone for printing ink cartridge storage and distribution.

Zavas Property:

Based upon the Phase I, the property contained historical operations including an Iron Works company, Star Ribbon Manufacturing Company, Morey and Company Machinists, National Rayon Company, Ang & Lemin Silk Manufacturers, lumber storage, and hamper manufacturing.

2.2 Previous Investigations

Provided below is a summary of previous environmental investigations performed on the Site.

Phase I and Phase II Environmental Assessments

Property Solutions Inc. (PSI) prepared separate Phase I and Phase II Environmental Assessments for the Famitech, Astoria Equities, and Zavas properties in 2008. PSI identified several AOCs for each property and conducted geophysical surveys, soil, groundwater, and surface water sampling to investigate the Site. Soil vapor sampling was not performed during the Phase II's.

In general, the Phase II's identified widespread SVOC and metal impacts in soil likely attributed to historic fill operations across the three properties. VOC source areas were not identified in soil. Limited groundwater sampling across the Site identified isolated locations with low concentrations of dissolved petroleum related VOCs above groundwater standards at the Famitech and Astoria Equities properties. A source for the groundwater contamination was not identified during the Phase II but was estimated to have been attributed to either historic operations on Site or upgradient sources. The geophysical surveys conducted during the Phase II's did not identify the presence of USTs.

USTs were previously identified and removed on the Famitech north parcel in 1998 (3,000 gal No. 2 fuel oil UST) and on the Zavas property in 2003 (5,000 gallon fuel oil UST). NYSDEC issued a No Further Action Letter in March 1998 for the Famitech UST based upon their review and approval of a Tank Closure Summary Report. New York City Fire Department (FDNY) records identified the 2003 Zavas property UST removal, but no tank location or tank removal summary report was provided and no NYSDEC records were identified for the Zavas tank removal.

The PSI Phase I and Phase II Environmental Assessments are provided in Appendix A.

2.3 Site Inspection

A Site Inspection was conducted by Roux Associates Inc. on November 11, 2013 prior to conducting the RI. The four warehouse buildings and outdoor construction materials staging lot noted in Section 1.1 were all occupied with commercial tenants at the time of inspection. Based upon visual examination of the buildings, surficial staining was observed during the Site inspection. This was limited to isolated petroleum stains on surficial concrete warehouse floors in the Famitech South property. No indications of historic Areas of Concern including fill materials or tanks/manufactured gas works were visibly evident during the site inspection.

In addition, a Site inspection was conducted with Roux Associates and the New York City Office of Environmental Remediation during the RI on December 11, 2013.

2.4 Areas of Concern

The following AOCs were identified for the Site.

Famitech (North)

1. Former Gas Works – Based on historical operation of a former Manufactured Gas Plant in the Famitech north parcel.
2. Historic Fill across the Site due to filling operations to raise grade across the site and extend land adjacent to the East River.

Famitech (South)

1. Historic Fill across the Site.

Astoria Equities:

1. Areas of lumber staging as part of historic operations – potential for leaching from dip-treated wood.
2. Historic Fill across the Site.

Zavas:

1. Historic operations – 60,000 gal above ground storage tank (AST) onsite used for lumber treatment.
2. Historic Fill across the Site.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Joshua B. Levine, P.E.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and 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

Roux Associates performed the following scope of work:

Famitech (North)

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 16 soil borings across the entire project Site, and collected 32 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 8 groundwater monitoring wells converted from soil borings throughout the Site to establish groundwater flow and collected 8 groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed 14 soil vapor probes around Site perimeter and collected 14 samples for chemical analysis.

Famitech (South)

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 7 soil borings across the entire project Site, and collected 13 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 4 groundwater monitoring wells converted from soil borings throughout the Site to establish groundwater flow and collected 4 groundwater samples for chemical analysis to evaluate groundwater quality; and
4. Installed 7 soil vapor probes around Site perimeter and collected 7 samples for chemical analysis.

Astoria Equities

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed 9 soil borings across the entire project Site, and collected 18 soil samples for chemical analysis from the soil borings to evaluate soil quality;

3. Installed 5 groundwater monitoring wells converted from soil borings throughout the Site to establish groundwater flow and collected 5 groundwater samples for chemical analysis to evaluate groundwater quality; and

4. Installed 10 soil vapor probes around Site perimeter and collected 10 samples for chemical analysis.

Zavas

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed 6 soil borings across the entire project Site, and collected 14 soil samples for chemical analysis from the soil borings to evaluate soil quality;

3. Installed 4 groundwater monitoring wells converted from soil borings throughout the Site to establish groundwater flow and collected 4 groundwater samples for chemical analysis to evaluate groundwater quality; and

4. Installed 8 soil vapor probes around Site perimeter and collected 8 samples for chemical analysis.

4.1 Geophysical Investigation

On November 5, 2013, Diversified Geophysics, Inc. performed a series of geophysical investigations on the properties collectively known as Project H, located in the vicinity of the intersection of 1st street with 27th Avenue, in Astoria, Queens, New York. The investigations were comprised of an interior survey of the Famitech South property, and continued with an exterior survey of the Zavas property; interior and exterior survey of the Famitech North property; and finished with a survey of the interior of the Astoria Equities property.

The geophysical investigation was comprised of a series of Ground Penetrating Radar (GPR) traverses and site-wide radio frequency/electromagnetic (RF/EM) scans. GPR data was collected with Sensors and Software 250 MHz Noggin SmartCart®. All utility services entering or exiting the buildings were visually examined by locating meter rooms and/or speaking with the facilities

manager. All boring locations were selected and cleared for drilling, subsequent to the geophysical survey at each individual proposed site.

The geophysical report can be found in Appendix B.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

A total of 38 soil borings were advanced throughout the Sites; 16 locations at Famitech North, 7 at Famitech South, 9 at Astoria Equities, and 6 at Zavas. All soil borings were installed by means of the sonic rotary method. The sonic rotary method resulted in the advancement of a four-inch core barrel into an undisturbed formation using downward pressure and sonic vibrations. Typically, a larger diameter casing was advanced around the core barrel in order to prevent borehole collapse during the extraction of the core barrel. The sample (collected in 5-foot intervals) was extruded from the core barrel and collected in polyethylene bags. Following sample collection, the core barrel was returned to the borehole and advanced to the next desired depth interval. Due to the nature and equipment used in this drilling, soil samples were collected in a continuous manner from the beginning of the boring to the target depth (bedrock).

Soil borings and soil samples were field screened for volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 eV lamp. All soils were visually inspected for evidence of impacts (e.g., odors, staining, and visible free product) and the lithology was recorded according to the Unified Soils Classification System (USCS).

Roux Associates collected at least two composite soil samples from each soil boring, one from the 0-2 foot interval just below surface, and one from the interval exhibiting the highest PID reading. If no evidence of contamination was identified during field screening, in addition to the surface soil sample, a soil sample from the two foot depth interval directly above groundwater and/or bedrock will be collected.

Boring logs were prepared by a geologist and are attached in Appendix C. A map showing the location of soil borings, monitoring wells and soil vapor points is shown in Plate 1.

Groundwater Monitoring Well Construction

Twenty-one 2-inch diameter groundwater monitoring wells were installed (converted from soil borings) between December 3 and December 20, 2013. All wells were installed using a Sonic® drill rig and constructed with eight to twelve feet of 20-Slot screen to a depth of approximately 12-17 feet below Site grade.

Monitoring well locations are shown in Plate 1.

Survey

The soil boring, monitoring well and soil vapor point locations and elevations were surveyed by Angle of Attack via rod and level on December 18 through December 23, 2013.

Water Level Measurement

Each groundwater monitoring well was gauged with an oil water interface probe. Water level gauging data is included in Table 1. Free product was not observed in any of the 21 monitoring wells during the groundwater gauging round conducted on December 23, 2013.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also 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

Seventy-nine soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 7. Plate 1 shows the locations of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Twenty-four groundwater samples were collected for chemical analysis during this RI including QA/QC samples. Groundwater sample collection data is reported in Tables 8 through 12. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix D. Plate 1 shows the locations of monitoring wells used for groundwater sampling. Laboratories and analytical methods are shown below. Groundwater sampling purge logs can be found in Appendix D.

Soil Vapor Sampling

A total of thirty-nine soil vapor points were installed throughout the various properties; fourteen at Famitech North, seven at Famitech South, ten at Astoria Equities, and eight at Zavas. All soil vapor points were installed using Cox-Colvin soil vapor pins, as approved by the NYCOER, with the exception to three traditional soil vapor points installed adjacent to Cox Colvin soil vapor pins at the Famitech North, Famitech South, and Astoria Equities properties. The three traditional soil vapor points were installed using 6" stainless steel screens and are identified with an "A" following the soil vapor point identification (e.g., SV-FN-08A). Soil vapor sampling locations are shown in Plate 1. Soil vapor sample collection data is reported in Table 13. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.* Soil vapor sampling logs can be found in Appendix E.

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.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Alpha Analytical of Westborough, MA.
Chemical Analytical	Soil analytical methods:

Factor	Description
Methods	• TAL Metals 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); • TCLP Metals by EPA Method 1311 Groundwater analytical methods: • TAL Metals 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); 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 2 through 13, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Provided below is a description of the geological and hydrogeologic conditions identified during the Remedial Investigation.

Stratigraphy

The Site is generally characterized by historic fill from ground surface to bedrock consisting of anthropogenic materials such as brick, concrete, ash, and coal with intermittent sandy and/or gravely silt and silty sand layers. Dark brown silt and vegetative matter (peat) was observed in the deeper borings, consistent with historical river deposits. The geology in the area of the Site is highly variable and consists primarily of metamorphic rock. In the direct vicinity of the site, bedrock consists of Manhattan Formation (schist) underlain by the Inwood Formation (marble). During this investigation, Roux Associates observed both the Manhattan and Inwood Formations with depth to bedrock variable across the site. This observation was consistent with the majority of results from previous reports. Bedrock in Famitech North was encountered at a depth of approximately 9 to 23 feet below land surface (bls), in Famitech South at 8 to 14 ft bls, in Astoria Equities at 7 to 20 ft bls, and in Zavas at 6.5 to 12.5 ft bls.

Hydrogeology

A table of water level data for all monitoring wells is included in Table 1. The average depth to groundwater is 7.52 feet bls and the range in depth is 3.55 to 12.03 feet bls. A map of groundwater elevations with groundwater contours and inferred flow lines is shown in Plate 2. Groundwater flow is from east to west towards the East River. It is suspected that groundwater under the site is tidally influenced in proximity to the East River, although multiple rounds of groundwater gauging at different tidal stages were not conducted to confirm tidal influence.

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. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 7. Plates 3A through 3D show the locations and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Restricted Residential Soil Cleanup Objectives (SCOs).

Famitech North

VOCs

VOCs were not detected at concentrations above New York State Department of Environmental Conservation (NYSDEC) Part 375 Restricted ResidentialSCOs for any of the 32 soil samples collected during the RI.

SVOCs

Fourteen SVOCs, mostly polyaromatic hydrocarbons (PAHs), were detected in 14 of the 32 soil samples analyzed. SVOC contamination was detected in the samples collected from the shallow 0-2 ft bls sample intervals in 12 of the 16 borings and in the deeper intervals in 2 soil borings. SVOCs of concern include the following:

- acenaphthene (maximum of 420,000 micrograms per kilogram (µg/kg) in SB-FN-07/15-17');
- anthracene (maximum of 410,000 µg/kg in SB-FN-07/15-17');
- benzo[a]anthracene (maximum of 230,000 µg/kg in SB-FN-07/15-17');
- benzo[a]pyrene (maximum of 94,000 µg/kg in SB-FN-07/15-17');
- benzo[b]fluoranthene (maximum of 88,000 µg/kg in SB-FN-07/15-17');
- benzo[k]fluoranthene (maximum of 28,000 µg/kg in SB-FN-07/15-17');
- chrysene (maximum of 360,000 µg/kg in SB-FN-07/15-17');
- dibenzo[a,h]anthracene (maximum of 25,000 µg/kg in SB-FN-07/15-17');
- fluoranthene (maximum of 410,000 µg/kg in SB-FN-07/15-17');
- fluorene (maximum of 190,000 µg/kg in SB-FN-07/15-17');
- indeno[1,2,3-c,d]pyrene (maximum of 30,000 µg/kg in SB-FN-07/15-17');
- naphthalene (maximum of 750,000 µg/kg in SB-FN-07/15-17');
- phenanthrene (maximum of 4,400,000 µg/kg in SB-FN-07/15-17'); and
- pyrene (maximum of 760,000 µg/kg in SB-FN-07/15-17').

The detection of PAHs in most of the borings is typical of historical fill in urban and industrialized areas and reflective of area background levels, however, at the concentrations found in boring SB-FN-07/15-17', is indicative of petroleum contamination.

Metals

Several metals were identified at concentrations above Restricted Residential SCOs in soil samples collected beneath Famitech North, as summarized below:

- Arsenic in MW-FN-05/0-2' (18 milligrams per kilogram (mg/kg)), MW-FN-08/0-2' (27 mg/kg), and SB-FN-07/0-2' (30 mg/kg);
- cadmium in SB-FN-07/0-2' (6 mg/kg);
- lead in SB-FN-05/0-2' (690 mg/kg) and SB-FN-07/0-2' (860 mg/kg); and
- mercury in SB-FN-05/0-2' (0.95 mg/kg) and SB-FN-06/0-2' (0.91 mg/kg).

The detection of metals in the subsurface soil is typical of historical fill in urban and industrialized areas and is reflective of area background levels.

In addition, all 32 soil samples were analyzed to determine whether hazardous levels of metals existed in the subsurface soil via toxicity characteristic leaching procedure (TCLP). Analytical results indicated that no characteristically hazardous concentrations of lead exist in surficial soil at Famitech North.

Pesticides and PCBs

Pesticides and PCBs were either not detected or detected at concentrations below the Restricted Residential SCOs for all soil samples collected.

Famitech South

VOCs

VOCs were not detected at concentrations above the Part 375 Unrestricted SCOs for any of the 13 soil samples collected during the RI.

SVOCs

Seven SVOCs were detected in 7 of the 14 soil samples analyzed. SVOC contamination was detected in the samples collected from the shallow 0-2 ft bls sample intervals only. SVOCs of concern include the following:

- benzo[a]anthracene (maximum of 6,400 µg/kg in SB-FS-03/0-2');
- benzo[a]pyrene (maximum of 6,600 µg/kg in SB-FS-03/0-2');

- benzo[b]fluoranthene (maximum of 7,000 µg/kg in SB-FS-03/0-2');
- benzo[k]fluoranthene (maximum of 5,300 µg/kg in SB-FS-03/0-2');
- chrysene (maximum of 6,100 µg/kg in SB-FS-03/0-2');
- dibenzo[a,h]anthracene (maximum of 2,200 µg/kg in SB-FS-03/0-2'); and
- indeno[1,2,3-c,d]pyrene (maximum of 6,200 µg/kg in SB-FS-03/0-2').

The detection of PAHs in most of the borings is typical of historical fill in urban and industrialized areas and reflective of area background levels.

Metals

Three metals were identified at concentrations above Restricted Residential SCOs in soil samples collected beneath Famitech South, as summarized below:

- barium in MW-FS-01/13-14' (430 mg/kg) and MW-FS-02/0-2' (440 mg/kg);
- chromium in SB-FS-02/0-2' (200 mg/kg); and
- lead in MW-FS-02/0-2' (410 mg/kg).

The detection of metals in the subsurface soil is typical of historical fill in urban and industrialized areas and is reflective of area background levels.

In addition, all 13 soil samples were analyzed to determine whether hazardous levels of metals existed in the subsurface soil via toxicity characteristic leaching procedure (TCLP). Analytical results indicated that no characteristically hazardous concentrations of lead exist in surficial soil at Famitech South.

Pesticides and PCBs

Pesticides and PCBs were either not detected or detected at concentrations below the Restricted Residential SCOs for all soil samples collected.

Astoria Equities

VOCs

VOCs were not detected at concentrations above the Part 375 Unrestricted SCOs for any of the 18 soil samples collected during the RI.

SVOCs

Seven SVOCs, mostly polyaromatic hydrocarbons (PAHs), were detected in 5 of the 18 soil samples analyzed. SVOC contamination was detected in the samples collected from the shallow 0-2 ft bls sample intervals in 6 of the 7 borings and in the deeper intervals in 1 soil boring. SVOCs of concern include the following:

- benzo[a]anthracene (maximum of 33,000 µg/kg in MW-AE-04/0-2');
- benzo[a]pyrene (maximum of 26,000 µg/kg in MW-AE-04/0-2');
- benzo[b]fluoranthene (maximum of 37,000 µg/kg in MW-AE-04/0-2');
- benzo[k]fluoranthene (maximum of 11,000 µg/kg in MW-AE-04/0-2');
- chrysene (maximum of 33,000 µg/kg in MW-AE-04/0-2');
- dibenzo[a,h]anthracene (maximum of 4,700 µg/kg in MW-AE-04/0-2'); and
- indeno[1,2,3-c,d]pyrene (maximum of 20,000 µg/kg in MW-AE-04/0-2').

The detection of PAHs in most of the borings is typical of historical fill in urban and industrialized areas and reflective of area background levels.

Metals

Two metals were identified at concentrations above Restricted Residential SCOs in soil samples collected beneath Astoria Equities, as summarized below:

- lead in MW-AE-05/0-2' (1,200 mg/kg) and SB-AE-02/13-15 (13,000 mg/kg); and
- mercury in SB-AE-03/2-3' (1.8 mg/kg) and SB-AE-04/0-2' (0.92 mg/kg).

The detection of metals in the subsurface soil is typical of historical fill in urban and industrialized areas and is reflective of area background levels.

In addition, all 18 soil samples were analyzed to determine whether hazardous levels of metals existed in the subsurface soil via toxicity characteristic leaching procedure (TCLP). Analytical results indicated that characteristically hazardous concentrations of lead exist in surficial soil in one soil sample (MW-AE-05/0-2'). This is the only soil sample out of 79 total samples collected across the greater Halletts Point Site that was deemed hazardous via TCLP metals analyses.

Pesticides and PCBs

Pesticides and PCBs were either not detected or detected at concentrations below the Restricted Residential SCOs for all soil samples collected.

Zavas

VOCs

VOCs were not detected at concentrations above the Part 375 Unrestricted SCOs for any of the 14 soil samples collected during the RI.

SVOCs

Fifteen SVOCs were detected in 14 of the 32 soil samples analyzed. SVOC contamination was detected in the samples collected from the shallow 0-2 ft bls sample intervals in 2 of the 14 borings and in the deeper intervals in 5 soil borings. SVOCs of concern include the following:

- acenaphthene (maximum of 110,000 micrograms per kilogram (µg/kg) in SB-ZA-03/4-5');
- anthracene (maximum of 170,000 µg/kg in SB-ZA-03/4-5');
- benzo[a]anthracene (maximum of 320,000 µg/kg in SB-ZA-03/4-5');
- benzo[a]pyrene (maximum of 290,000 µg/kg in SB-ZA-03/4-5');
- benzo[b]fluoranthene (maximum of 330,000 µg/kg in SB-ZA-03/4-5');
- benzo[k]fluoranthene (maximum of 130,000 µg/kg in SB-ZA-03/4-5');
- chrysene (maximum of 290,000 µg/kg in SB-ZA-03/4-5');
- dibenzo[a,h]anthracene (maximum of 37,000 µg/kg in SB-ZA-03/4-5');
- dibenzofuran (maximum of 110,000 µg/kg in SB-ZA-03/4-5');
- fluoranthene (maximum of 880,000 µg/kg in SB-ZA-03/4-5');
- fluorene (maximum of 130,000 µg/kg in SB-ZA-03/4-5');
- indeno[1,2,3-c,d]pyrene (maximum of 200,000 µg/kg in SB-ZA-03/4-5');
- naphthalene (maximum of 110,000 µg/kg in SB-ZA-03/4-5');
- phenanthrene (maximum of 990,000 µg/kg in SB-ZA-03/4-5'); and
- pyrene (maximum of 760,000 µg/kg in SB-ZA-03/4-5').

The detection of PAHs in most of the borings is typical of historical fill in urban and industrialized areas and reflective of area background levels, however, at the concentrations found in boring SB-ZA-03/4-5', is indicative of petroleum contamination.

Metals

Several metals were identified at concentrations above Restricted Residential SCOs in soil samples collected beneath Zavas, as summarized below:

- Arsenic in MW-FN-05/0-2' (18 milligrams per kilogram (mg/kg)), MW-FN-08/0-2' (27 mg/kg), and SB-FN-07/0-2' (30 mg/kg);
- barium in MW-ZA-02/9-11' (640 mg/kg), and SB-ZA-03/5-6.5' (610 mg/kg);
- chromium in MW-ZA-02/9-11' (270 mg/kg); and
- copper in MW-ZA-03/4-5' (670 mg/kg);

The detection of metals in the subsurface soil is typical of historical fill in urban and industrialized areas and is reflective of area background levels.

In addition, all 14 soil samples were analyzed to determine whether hazardous levels of metals existed in the subsurface soil via toxicity characteristic leaching procedure (TCLP). Analytical results indicated that no characteristically hazardous concentrations of lead exist in surficial soil at Zavas.

Pesticides and PCBs

Pesticides and PCBs were either not detected or detected at concentrations below the Restricted Residential SCOs for all soil samples collected.

5.3 Groundwater Chemistry

Twenty-four groundwater samples were collected including quality assurance/quality control (QA/QC) samples. 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 8 through 12. Exceedances of applicable groundwater standards are shown.

Plates 4A through 4D show the locations and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs).

Famitech North

VOCs

Five VOCs were detected at concentrations above AWQSGVs in two monitoring wells. VOCs of concern include the following:

- benzene (maximum of 8.1 µg/L in MW-FN-05);
- ethylbenzene (7 µg/L in MW-FN-05);
- m+p-xylene (6.2 µg/L in MW-FN-05);
- naphthalene (72 µg/L in MW-FN-05); and
- toluene (5.7 µg/L in MW-FN-05).

SVOCs

Seven SVOCs were detected in three groundwater samples above AWQSGVs. Compounds indicative of historic fill as well as degraded oil were detected at low levels in wells at Famitech North. Compounds detected include:

- benzo[a]anthracene (maximum of 0.32 µg/L in MW-FN-05);
- benzo[a]pyrene (maximum of 0.21 µg/L in MW-FN-08);
- benzo[b]fluoranthene (maximum of 0.26 µg/L in MW-FN-08);
- benzo[k]fluoranthene (0.11J µg/L in MW-FN-08);
- chrysene (maximum of 0.23 µg/L in MW-FN-05);
- indeno[1,2,3-c,d]pyrene (0.18J µg/L in MW-FN-08); and
- naphthalene (73E µg/L in MW-FN-05).

Metals

Several metals including iron, manganese, selenium, and sodium were detected at concentrations above AWQSGVs in both filtered and unfiltered groundwater samples. This is indicative of saltwater intrusion from the nearby tidally influenced East River. Lead was detected above

AWQSGVs in unfiltered samples only MW-FN-01 and MW-FN-07. Antimony was detected in filtered samples in MW-FN-06 (4.8 µg/L).

PCBs

There were no PCBs detected in groundwater samples.

Pesticides

No pesticides were detected in groundwater samples with the exception of dieldrin in MW-FN-06 (0.023 µg/L) and MW-FN-08 (0.015 µg/L).

Famitech South

VOCs

Thirteen VOCs were detected at concentrations above AWQSGVs in two monitoring wells. VOCs of concern include the following:

- 1,2,4,5-tetramethylbenzene (12 µg/L in MW-FS-01 and MW-FS-03);
- 1,2,4-trimethylbenzene (maximum of 120 µg/L in MW-FS-01);
- 1,3,5-trimethylbenzene (16 µg/L in MW-FS-01);
- benzene (maximum of 97 µg/L in MW-FS-01);
- ethylbenzene (maximum of 190 µg/L in MW-FS-01);
- isopropylbenzene (maximum of 58 µg/L in MW-FS-01);
- m+p-xylene (maximum of 350 µg/L in MW-FS-01);
- naphthalene (maximum of 590 µg/L in MW-FS-01);
- n-propylbenzene (maximum of 14 µg/L in MW-FS-03);
- o-xylene (maximum of 250 µg/L in MW-FS-01);
- p-isopropyltoluene (16 µg/L in MW-FS-03);
- styrene (13 µg/L in MW-FS-01); and
- toluene (maximum of 140 µg/L in MW-FS-01).

The detection of VOCs in MW-FS-01 and MW-FS-03 located in Famitech South suggest a possible historic release onsite or directly upgradient.

SVOCs

Four SVOCs were detected in two groundwater samples above AWQSGVs. Compounds indicative of historic fill as well as degraded oil were detected at low levels in wells in Famitech South. Compounds detected include:

- acenaphthene (39 µg/L in MW-FS-01);
- benzo[a]anthracene (0.2 µg/L in MW-FS-01);
- chrysene (0.22 µg/L in MW-FS-01); and
- naphthalene (maximum of 210 µg/L in MW-FS-01).

Metals

Several metals including iron, manganese, selenium, and sodium were detected at concentrations above AWQSGVs in both filtered and unfiltered groundwater samples. This is indicative of saltwater intrusion from the nearby tidally influenced East River. Barium, chromium, and lead were detected above AWQSGVs in unfiltered samples only in MW-FS-01.

PCBs

There were no PCBs detected in groundwater samples.

Pesticides

No pesticides were detected in groundwater samples.

Astoria Equities

VOCs

Only one VOC was detected at concentrations above AWQSGVs in MW-AE-01 (chloroform at 11 µg/L).

SVOCs

No SVOCs were detected above AWQSGVs at Astoria Equities.

Metals

Several metals including antimony, iron, manganese, and sodium were detected at concentrations above AWQSGVs in both filtered and unfiltered groundwater samples. This is indicative of saltwater intrusion from the nearby tidally influenced East River. Lead was detected above AWQSGVs in unfiltered samples only in MW-AE-05.

PCBs

There were no PCBs detected in groundwater samples.

Pesticides

No pesticides were detected in groundwater samples.

Zavas

VOCs

Four VOCs were detected at concentrations above AWQSGVs in three monitoring wells. VOCs of concern include the following:

- 1,2,4-trimethylbenzene (maximum of 7.3 µg/L in MW-ZA-04);
- benzene (maximum of 2.9 µg/L in MW-ZA-02);
- isopropylbenzene (maximum of 8 µg/L in MW-ZA-01); and
- naphthalene (maximum of 12 µg/L in MW-ZA-04).

SVOCs

Nine SVOCs were detected in nine groundwater samples above AWQSGVs. Compounds indicative of historic fill as well as degraded oil were detected at low levels in wells in the Zavas property. Compounds detected include:

- acenaphthene (maximum of 130 µg/L in MW-ZA-04);
- benzo[a]anthracene (maximum of 6 µg/L in MW-ZA-04);
- benzo[a]pyrene (maximum of 2.8 µg/L in MW-ZA-04);
- benzo[b]fluoranthene (maximum of 2.5 µg/L in MW-ZA-04);
- benzo[k]fluoranthene (maximum of 0.92J µg/L in MW-ZA-04);
- chrysene (maximum of 7.4 µg/L in MW-ZA-04);
- indeno[1,2,3-c,d]pyrene (maximum of 1.3 µg/L in MW-ZA-04);
- naphthalene (maximum of 29 µg/L in MW-ZA-04); and
- phenanthrene (maximum of 120 µg/L in MW-ZA-04).

Metals

Three metals including iron, manganese, selenium, and sodium were detected at concentrations above AWQSGVs in both filtered and unfiltered groundwater samples. This is indicative of

saltwater intrusion from the nearby tidally influenced East River. No other metals were detected above AWQSGVs at Zavas.

PCBs

There were no PCBs detected in groundwater samples.

Pesticides

No pesticides were detected in groundwater samples.

5.4 Soil Vapor Chemistry

A total of 39 soil vapor points were installed throughout the Site. All interior points (with the exception of three traditional soil vapor points) were installed using the Cox-Colvin soil vapor pin method. The pins protrude approximately 3 inches below the slab. The traditional soil vapor points were installed to a depth of 2 to 3 feet below ground surface, and the interior traditional SV points were installed to a depth of 2 feet below the slab. 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 13. Soil vapor results were compared to New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion, October 2006.

Famitech North

All soil vapor samples contained low-level detections of both petroleum-related VOCs and chlorinated VOCs. Chlorinated VOCs were detected in nine locations in Famitech North.. VOCs of concern include the following:

- 1,1,1-trichloroethane (maximum of 220 µg/m^3 in SV-FN-04; detected in two samples); and
- Tetrachloroethene (PERC) (maximum of 50.9 µg/m^3 in SV-FN-04; detected in eight total samples).

Plate 5A shows the soil vapor sample locations and post the concentrations for soil vapor samples with detected concentrations of VOCs.

Famitech South

All soil vapor samples contained low-level detections of both petroleum-related VOCs and chlorinated VOCs. Chlorinated VOCs were detected in seven SV points in Famitech South. VOCs of concern include the following:

- 1,1,1-trichloroethane (maximum of 102 µg/m^3 in SV-FS-04; detected in seven total samples);
- Tetrachloroethene (PERC) (maximum of 138 µg/m^3 in SV-FS-05; detected in six total samples); and
- Trichloroethene (TCE) (maximum of 148 µg/m^3 in SV-FS-03; detected in two total samples).

Plate 5B shows the soil vapor sample locations and post the concentrations for soil vapor samples with detected concentrations of VOCs.

Astoria Equities

All soil vapor samples (with the exception of SV-AE-02, SV-AE-07, and SV-AE-08) contained low-level detections of both petroleum-related VOCs and chlorinated VOCs. Chlorinated VOCs were detected in five SV points in Astoria Equities. VOCs of concern include the following:

- 1,1,1-trichloroethane (maximum of 161 µg/m^3 in SV-FN-04; detected in five total samples);
- *Cis*-1,2-dichloroethene (maximum of 9.24 µg/m^3 in SV-AE-09);
- Tetrachloroethene (PERC) (maximum of 92.2 µg/m^3 in SV-AE-04; detected in three total samples); and
- Trichloroethene (TCE) (maximum of 53 µg/m^3 in SV-AE-09; detected in two total samples).

Plate 5C shows the soil vapor sample locations and post the concentrations for soil vapor samples with detected concentrations of VOCs.

Zavas

All soil vapor samples contained low-level detections of both petroleum-related VOCs and chlorinated VOCs. Chlorinated VOCs were detected in eight SV points in Zavas. VOCs of concern include the following:

- 1,1,1-trichloroethane (maximum of 79.7 µg/m^3 in SV-ZA-04; detected in six total samples);
- Tetrachloroethene (PERC) (maximum of 30.2 µg/m^3 in SV-ZA-09; detected in eight total samples); and
- Trichloroethene (TCE) (maximum of 7.52 µg/m^3 in SV-ZA-04; detected in two total samples).

Plate 5D shows the soil vapor sample locations and post the concentrations for soil vapor samples with detected concentrations of VOCs.

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. One soil sample out of 79 samples collected (MW-AE-05 (0-2 ft bls)), contained lead at concentrations in excess of the TCLP standard of 5 mg/L, indicating that a hotspot of characteristically hazardous lead soil exists on the Site.

5.6 Impediments to Remedial Action

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

TABLES

Table 1. Summary of Groundwater Gauging Results, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

DESIGNATION	Date Gauged	Top of Casing Elevation (feet aQBd)	Depth to Water (feet below top of casing)	Depth to Bottom (feet below top of casing)	Corrected Water Table Elevation* (feet aQBd)
Famitech North					
MW-FN-01	12/23/2013	7.72	6.54	16.27	-0.45
MW-FN-02	12/23/2013	8.33	9.77	14.69	-3.07
MW-FN-03	12/23/2013	10.12	7.80	12.58	0.69
MW-FN-04	12/23/2013	10.01	7.76	14.22	0.62
MW-FN-05	12/23/2013	10.70	8.71	14.00	0.36
MW-FN-06	12/23/2013	10.55	12.01	14.35	-3.09
MW-FN-07	12/23/2013	8.06	8.11	11.05	-1.68
MW-FN-08	12/23/2013	10.73	12.03	18.25	-2.93
Famitech South					
MW-FS-01	12/23/2013	9.91	9.22	15.23	-0.94
MW-FS-02	12/23/2013	9.84	10.18	12.63	-1.97
MW-FS-03	12/23/2013	9.75	8.27	13.05	-0.15
MW-FS-04	12/23/2013	9.87	8.47	14.63	-0.23
Astoria Equities					
MW-AE-01	12/23/2013	9.03	5.07	13.00	2.33
MW-AE-02	12/23/2013	8.96	5.00	12.00	2.33
MW-AE-03	12/23/2013	8.67	4.70	14.60	2.34
MW-AE-04	12/23/2013	7.53	3.55	13.73	2.35
MW-AE-05	12/23/2013	8.58	4.65	12.88	2.30
Zavas					
MW-ZA-01	12/23/2013	9.58	6.89	12.50	1.06
MW-ZA-02	12/23/2013	10.44	7.46	13.65	1.35
MW-ZA-03	12/23/2013	8.74	5.37	14.70	1.74
MW-ZA-04	12/23/2013	9.26	6.32	11.34	1.31

Notes:
aQBd - above Queens Borough datum
Monitoring well elevations were surveyed on December 23, 2013, by Angle of Attack, and are based upon the Borough of Queens Highway Datum

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-AE-01	MW-AE-01	MW-AE-02	MW-AE-02	MW-AE-03	MW-AE-03	MW-AE-04	MW-AE-04	MW-AE-05	MW-AE-05
				Sample Date:	12/6/2013	12/18/2013	12/6/2013	12/13/2013	12/6/2013	12/13/2013	12/5/2013	12/10/2013	12/6/2013	12/18/2013
				Sample Depth (ft bls):	0-2	11-13	0-2	10-12	0-2	17-19	0-2	12-14	0-2	18-20
1,1,1,2-Tetrachloroethane	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
1,1,1-Trichloroethane	680	100000	680		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
1,1,2,2-Tetrachloroethane	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
1,1,2-Trichloroethane	--	--	--		2.1 U	2.3 U	1.7 U	1.8 U	6 U	1.7 U	3.4 U	1.6 U	1.8 U	1.7 U
1,1-Dichloroethane	270	26000	270		2.1 U	2.3 U	1.7 U	1.8 U	6 U	1.7 U	3.4 U	1.6 U	1.8 U	1.7 U
1,1-Dichloroethene	330	100000	330		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
1,1-Dichloropropene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,2,3-Trichlorobenzene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,2,3-Trichloropropane	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
1,2,4,5-Tetramethylbenzene	--	--	--		5.7 U	6.2 U	4.4 U	4.7 U	16 U	4.6 U	9.1 U	4.4 U	4.7 U	4.5 U
1,2,4-Trichlorobenzene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,2,4-Trimethylbenzene	3600	52000	3600		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,2-Dibromoethane	--	--	--		5.7 U	6.2 U	4.4 U	4.7 U	16 U	4.6 U	9.1 U	4.4 U	4.7 U	4.5 U
1,2-Dichlorobenzene	1100	100000	1100		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,2-Dichloroethane	20	3100	20		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
1,2-Dichloropropane	--	--	--		5 U	5.4 U	3.9 U	4.1 U	14 U	4 U	8 U	3.9 U	4.1 U	4 U
1,3,5-Trimethylbenzene	8400	52000	8400		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,3-Dichlorobenzene	2400	49000	2400		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,3-Dichloropropane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,4-Dichlorobenzene	1800	13000	1800		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
1,4-Dioxane	100	13000	100		140 U	160 U	110 U	120 U	400 U	110 U	230 U	110 U	120 U	110 U
2,2-Dichloropropane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
2-Butanone (MEK)	120	100000	120		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	6.2 J	11 U
2-Hexanone	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
4-Ethyltoluene	--	--	--		5.7 U	6.2 U	4.4 U	4.7 U	16 U	4.6 U	9.1 U	4.4 U	4.7 U	4.5 U
4-Methyl-2-pentanone (MIBK)	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
Acetone	50	100000	50		5.5 J	11 J	11 U	10 J	40 U	3.8 J	23 U	5.9 J	39	4.5 J
Acrylonitrile	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
BENZENE, 1,4-DIETHYL	-	--	--		5.7 U	6.2 U	4.4 U	4.7 U	16 U	4.6 U	9.1 U	4.4 U	4.7 U	4.5 U
Benzene	60	4800	60		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Bromobenzene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Bromochloromethane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Bromodichloromethane	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Bromoform	--	--	--		5.7 U	6.2 U	4.4 U	4.7 U	16 U	4.6 U	9.1 U	4.4 U	4.7 U	4.5 U
Bromomethane	--	--	--		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	2.3 U
Carbon disulfide	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
Carbon tetrachloride	760	2400	760		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Chlorobenzene	1100	100000	1100		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Chloroethane	--	--	--		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	2.3 U
Chloroform	370	49000	370		2.1 U	2.3 U	1.7 U	1.8 U	6 U	1.7 U	3.4 U	1.6 U	1.8 U	1.7 U
Chloromethane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
cis-1,2-Dichloroethene	250	100000	250		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
cis-1,3-Dichloropropene	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Dibromochloromethane	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Dibromochloropropane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-AE-01	MW-AE-01	MW-AE-02	MW-AE-02	MW-AE-03	MW-AE-03	MW-AE-04	MW-AE-04	MW-AE-05	MW-AE-05
				Sample Date:	12/6/2013	12/18/2013	12/6/2013	12/13/2013	12/6/2013	12/13/2013	12/5/2013	12/10/2013	12/6/2013	12/18/2013
				Sample Depth (ft bls):	0-2	11-13	0-2	10-12	0-2	17-19	0-2	12-14	0-2	18-20
Dibromomethane	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
Dichlorodifluoromethane	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
Diethyl Ether	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Ethylbenzene	1000	41000	1000		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Hexachlorobutadiene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Isopropylbenzene	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
m+p-Xylene	--	--	--		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	0.97 J
Methylene chloride	50	100000	50		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
MTBE	930	100000	930		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	0.52 J	2.3 U	2.3 U
Naphthalene	12000	100000	12000		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	2.7 J	5.8 U	5.7 U
n-Butylbenzene	12000	100000	12000		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
n-Propylbenzene	3900	100000	3900		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
o-Chlorotoluene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
o-Xylene	--	--	--		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	2.3 U
p-Chlorotoluene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
p-Isopropyltoluene	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
sec-Butylbenzene	11000	100000	11000		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Styrene	--	--	--		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	2.3 U
tert-Butylbenzene	5900	100000	5900		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Tetrachloroethene	1300	19000	1300		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Toluene	700	100000	700		2.1 U	2.3 U	1.7 U	1.8 U	6 U	1.7 U	3.4 U	1.6 U	1.8 U	1.7 U
trans-1,2-Dichloroethene	190	100000	190		2.1 U	2.3 U	1.7 U	1.8 U	6 U	1.7 U	3.4 U	1.6 U	1.8 U	1.7 U
trans-1,3-Dichloropropene	--	--	--		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
trans-1,4-Dichloro-2-butene	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Trichloroethene	470	21000	470		1.4 U	1.6 U	1.1 U	1.2 U	4 U	1.1 U	2.3 U	1.1 U	1.2 U	1.1 U
Trichlorofluoromethane	--	--	--		7.2 U	7.8 U	5.5 U	5.9 U	20 U	5.7 U	11 U	5.5 U	5.8 U	5.7 U
Vinyl acetate	--	--	--		14 U	16 U	11 U	12 U	40 U	11 U	23 U	11 U	12 U	11 U
Vinyl chloride	20	900	20		2.9 U	3.1 U	2.2 U	2.3 U	8 U	2.3 U	4.6 U	2.2 U	2.3 U	2.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-01	SB-AE-01	SB-AE-02	SB-AE-02	SB-AE-03	SB-AE-03	SB-AE-04	SB-AE-04	MW-FN-01	MW-FN-01
				Sample Date:	12/6/2013	12/12/2013	12/5/2013	12/12/2013	12/6/2013	12/6/2013	12/6/2013	12/12/2013	12/4/2013	12/9/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	13-15	0-2	2-3	0-2	5-7	0-2	10-12
1,1,1,2-Tetrachloroethane	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
1,1,1-Trichloroethane	680	100000	680		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
1,1,2,2-Tetrachloroethane	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
1,1,2-Trichloroethane	--	--	--		2.3 U	2.6 U	1.6 U	4.4 U	1.7 U	2.1 U	1.8 U	1.6 U	3.4 U	1.6 U
1,1-Dichloroethane	270	26000	270		2.3 U	2.6 U	1.6 U	4.4 U	1.7 U	2.1 U	1.8 U	1.6 U	3.4 U	1.6 U
1,1-Dichloroethene	330	100000	330		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
1,1-Dichloropropene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,2,3-Trichlorobenzene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,2,3-Trichloropropane	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
1,2,4,5-Tetramethylbenzene	--	--	--		6.1 U	1.6 J	4.4 U	12 U	4.5 U	5.7 U	4.7 U	4.3 U	8.9 U	4.4 U
1,2,4-Trichlorobenzene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,2,4-Trimethylbenzene	3600	52000	3600		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,2-Dibromoethane	--	--	--		6.1 U	6.9 U	4.4 U	12 U	4.5 U	5.7 U	4.7 U	4.3 U	8.9 U	4.4 U
1,2-Dichlorobenzene	1100	100000	1100		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,2-Dichloroethane	20	3100	20		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
1,2-Dichloropropane	--	--	--		5.4 U	6 U	3.8 U	10 U	3.9 U	5 U	4.1 U	3.7 U	7.8 U	3.9 U
1,3,5-Trimethylbenzene	8400	52000	8400		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,3-Dichlorobenzene	2400	49000	2400		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,3-Dichloropropane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,4-Dichlorobenzene	1800	13000	1800		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
1,4-Dioxane	100	13000	100		150 U	170 U	110 U	290 U	110 U	140 U	120 U	110 U	220 U	110 U
2,2-Dichloropropane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
2-Butanone (MEK)	120	100000	120		15 U	14 J	11 U	15 J	2.7 J	6.9 J	21	11 U	22 U	2.8 J
2-Hexanone	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
4-Ethyltoluene	--	--	--		6.1 U	6.9 U	4.4 U	12 U	4.5 U	5.7 U	4.7 U	4.3 U	8.9 U	4.4 U
4-Methyl-2-pentanone (MIBK)	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
Acetone	50	100000	50		15 U	**67**	3.9 J	**70**	20	47	**110**	7.2 J	22 U	13
Acrylonitrile	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
BENZENE, 1,4-DIETHYL	-	--	--		6.1 U	6.9 U	4.4 U	12 U	4.5 U	5.7 U	4.7 U	4.3 U	8.9 U	4.4 U
Benzene	60	4800	60		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Bromobenzene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Bromochloromethane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Bromodichloromethane	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Bromoform	--	--	--		6.1 U	6.9 U	4.4 U	12 U	4.5 U	5.7 U	4.7 U	4.3 U	8.9 U	4.4 U
Bromomethane	--	--	--		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
Carbon disulfide	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
Carbon tetrachloride	760	2400	760		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Chlorobenzene	1100	100000	1100		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Chloroethane	--	--	--		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
Chloroform	370	49000	370		2.3 U	2.6 U	1.6 U	4.4 U	1.7 U	2.1 U	1.8 U	1.6 U	3.4 U	1.6 U
Chloromethane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
cis-1,2-Dichloroethene	250	100000	250		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
cis-1,3-Dichloropropene	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Dibromochloromethane	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Dibromochloropropane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-01	SB-AE-01	SB-AE-02	SB-AE-02	SB-AE-03	SB-AE-03	SB-AE-04	SB-AE-04	MW-FN-01	MW-FN-01
				Sample Date:	12/6/2013	12/12/2013	12/5/2013	12/12/2013	12/6/2013	12/6/2013	12/6/2013	12/12/2013	12/4/2013	12/9/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	13-15	0-2	2-3	0-2	5-7	0-2	10-12
Dibromomethane	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
Dichlorodifluoromethane	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
Diethyl Ether	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Ethylbenzene	1000	41000	1000		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Hexachlorobutadiene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Isopropylbenzene	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
m+p-Xylene	--	--	--		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
Methylene chloride	50	100000	50		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
MTBE	930	100000	930		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
Naphthalene	12000	100000	12000		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	1.8 J
n-Butylbenzene	12000	100000	12000		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
n-Propylbenzene	3900	100000	3900		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
o-Chlorotoluene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
o-Xylene	--	--	--		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
p-Chlorotoluene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
p-Isopropyltoluene	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
sec-Butylbenzene	11000	100000	11000		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Styrene	--	--	--		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U
tert-Butylbenzene	5900	100000	5900		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Tetrachloroethene	1300	19000	1300		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Toluene	700	100000	700		2.3 U	2.6 U	1.6 U	5.8	1.7 U	2.1 U	1.8 U	1.6 U	3.4 U	1.6 U
trans-1,2-Dichloroethene	190	100000	190		2.3 U	2.6 U	1.6 U	4.4 U	1.7 U	2.1 U	1.8 U	1.6 U	3.4 U	1.6 U
trans-1,3-Dichloropropene	--	--	--		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
trans-1,4-Dichloro-2-butene	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Trichloroethene	470	21000	470		1.5 U	1.7 U	1.1 U	2.9 U	1.1 U	1.4 U	1.2 U	1.1 U	2.2 U	1.1 U
Trichlorofluoromethane	--	--	--		7.6 U	8.6 U	5.5 U	14 U	5.6 U	7.1 U	5.9 U	5.3 U	11 U	5.5 U
Vinyl acetate	--	--	--		15 U	17 U	11 U	29 U	11 U	14 U	12 U	11 U	22 U	11 U
Vinyl chloride	20	900	20		3.1 U	3.4 U	2.2 U	5.8 U	2.2 U	2.8 U	2.4 U	2.1 U	4.5 U	2.2 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
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NYSDEC - New York State Department of Environmental Conservation
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Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-02	MW-FN-02	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06
				Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013	12/11/2013	12/3/2013	12/11/2013
				Sample Depth (ft bls):	0-2	13-15	0-2	10-12	0-2	13-15	0-2	11-13	0-2	21-23
1,1,1,2-Tetrachloroethane	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
1,1,1-Trichloroethane	680	100000	680		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
1,1,2,2-Tetrachloroethane	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
1,1,2-Trichloroethane	--	--	--		2.9 U	2 U	2 U	1.7 U	2.2 U	1.6 U	2 U	1.5 U	1.8 U	1.9 U
1,1-Dichloroethane	270	26000	270		2.9 U	2 U	2 U	1.7 U	2.2 U	1.6 U	2 U	1.5 U	1.8 U	1.9 U
1,1-Dichloroethene	330	100000	330		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
1,1-Dichloropropene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,2,3-Trichlorobenzene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,2,3-Trichloropropane	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
1,2,4,5-Tetramethylbenzene	--	--	--		7.7 U	5.2 U	5.4 U	4.4 U	5.8 U	4.3 U	5.4 U	1.8 J	4.9 U	5.1 U
1,2,4-Trichlorobenzene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,2,4-Trimethylbenzene	3600	52000	3600		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	4.5 J	6.2 U	6.4 U
1,2-Dibromoethane	--	--	--		7.7 U	5.2 U	5.4 U	4.4 U	5.8 U	4.3 U	5.4 U	4.1 U	4.9 U	5.1 U
1,2-Dichlorobenzene	1100	100000	1100		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,2-Dichloroethane	20	3100	20		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
1,2-Dichloropropane	--	--	--		6.7 U	4.6 U	4.7 U	3.9 U	5 U	3.8 U	4.7 U	3.6 U	4.3 U	4.4 U
1,3,5-Trimethylbenzene	8400	52000	8400		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	2.6 J	6.2 U	6.4 U
1,3-Dichlorobenzene	2400	49000	2400		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,3-Dichloropropane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,4-Dichlorobenzene	1800	13000	1800		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
1,4-Dioxane	100	13000	100		190 U	130 U	130 U	110 U	140 U	110 U	130 U	100 U	120 U	130 U
2,2-Dichloropropane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
2-Butanone (MEK)	120	100000	120		19 U	13 U	13 U	11 U	3.5 J	11 U	13 U	10 U	12 U	13 U
2-Hexanone	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
4-Ethyltoluene	--	--	--		7.7 U	5.2 U	5.4 U	4.4 U	5.8 U	4.3 U	5.4 U	1.4 J	4.9 U	5.1 U
4-Methyl-2-pentanone (MIBK)	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
Acetone	50	100000	50		19 U	13 U	7.9 J	11 U	40	7.5 J	5.8 J	5.1 J	5.6 J	23
Acrylonitrile	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
BENZENE, 1,4-DIETHYL	-	--	--		7.7 U	5.2 U	5.4 U	4.4 U	5.8 U	4.3 U	5.4 U	2.3 J	4.9 U	5.1 U
Benzene	60	4800	60		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1.6	1.2 U	1.3 U
Bromobenzene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Bromochloromethane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Bromodichloromethane	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Bromoform	--	--	--		7.7 U	5.2 U	5.4 U	4.4 U	5.8 U	4.3 U	5.4 U	4.1 U	4.9 U	5.1 U
Bromomethane	--	--	--		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	2.1 U	2.5 U	2.5 U
Carbon disulfide	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
Carbon tetrachloride	760	2400	760		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Chlorobenzene	1100	100000	1100		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Chloroethane	--	--	--		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	2.1 U	2.5 U	2.5 U
Chloroform	370	49000	370		2.9 U	2 U	2 U	1.7 U	2.2 U	1.6 U	2 U	1.5 U	1.8 U	1.9 U
Chloromethane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
cis-1,2-Dichloroethene	250	100000	250		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
cis-1,3-Dichloropropene	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Dibromochloromethane	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Dibromochloropropane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-02	MW-FN-02	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06
				Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013	12/11/2013	12/3/2013	12/11/2013
				Sample Depth (ft bls):	0-2	13-15	0-2	10-12	0-2	13-15	0-2	11-13	0-2	21-23
Dibromomethane	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
Dichlorodifluoromethane	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
Diethyl Ether	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Ethylbenzene	1000	41000	1000		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	0.81 J	1.2 U	1.3 U
Hexachlorobutadiene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Isopropylbenzene	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	0.26 J	1.2 U	1.3 U
m+p-Xylene	--	--	--		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	6.4	2.5 U	2.5 U
Methylene chloride	50	100000	50		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
MTBE	930	100000	930		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	2.1 U	2.5 U	2.5 U
Naphthalene	12000	100000	12000		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	150	6.2 U	6.4 U
n-Butylbenzene	12000	100000	12000		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
n-Propylbenzene	3900	100000	3900		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
o-Chlorotoluene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
o-Xylene	--	--	--		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	2.5	2.5 U	2.5 U
p-Chlorotoluene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
p-Isopropyltoluene	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	0.3 J	1.2 U	1.3 U
sec-Butylbenzene	11000	100000	11000		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Styrene	--	--	--		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	0.72 J	2.5 U	2.5 U
tert-Butylbenzene	5900	100000	5900		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Tetrachloroethene	1300	19000	1300		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Toluene	700	100000	700		2.9 U	2 U	2 U	1.7 U	2.2 U	1.6 U	2 U	4.1	1.8 U	1.9 U
trans-1,2-Dichloroethene	190	100000	190		2.9 U	2 U	2 U	1.7 U	2.2 U	1.6 U	2 U	1.5 U	1.8 U	1.9 U
trans-1,3-Dichloropropene	--	--	--		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
trans-1,4-Dichloro-2-butene	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Trichloroethene	470	21000	470		1.9 U	1.3 U	1.3 U	1.1 U	1.4 U	1.1 U	1.3 U	1 U	1.2 U	1.3 U
Trichlorofluoromethane	--	--	--		9.6 U	6.5 U	6.7 U	5.5 U	7.2 U	5.4 U	6.7 U	5.2 U	6.2 U	6.4 U
Vinyl acetate	--	--	--		19 U	13 U	13 U	11 U	14 U	11 U	13 U	10 U	12 U	13 U
Vinyl chloride	20	900	20		3.8 U	2.6 U	2.7 U	2.2 U	2.9 U	2.2 U	2.7 U	2.1 U	2.5 U	2.5 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-07	MW-FN-07	MW-FN-08	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02	SB-FN-03	SB-FN-03	SB-FN-04
				Sample Date:	12/2/2013	12/12/2013	12/2/2013	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/3/2013	12/9/2013	12/5/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	17-19	0-2	13-15	0-2	12.5-14.5	0-2	7-9	0-2
1,1,1,2-Tetrachloroethane	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
1,1,1-Trichloroethane	680	100000	680		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
1,1,2,2-Tetrachloroethane	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
1,1,2-Trichloroethane	--	--	--		2.8 U	1.6 U	1.9 U	98 U	3.1 U	1.7 U	2 U	2.1 U	3.8 U	2 U	2.5 U
1,1-Dichloroethane	270	26000	270		2.8 U	1.6 U	1.9 U	98 U	3.1 U	1.7 U	2 U	2.1 U	3.8 U	2 U	2.5 U
1,1-Dichloroethene	330	100000	330		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
1,1-Dichloropropene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,2,3-Trichlorobenzene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,2,3-Trichloropropane	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
1,2,4,5-Tetramethylbenzene	--	--	--		7.4 U	4.4 U	5.2 U	260 U	8.3 U	4.6 U	5.3 U	5.5 U	10 U	5.4 U	6.7 U
1,2,4-Trichlorobenzene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,2,4-Trimethylbenzene	3600	52000	3600		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,2-Dibromoethane	--	--	--		7.4 U	4.4 U	5.2 U	260 U	8.3 U	4.6 U	5.3 U	5.5 U	10 U	5.4 U	6.7 U
1,2-Dichlorobenzene	1100	100000	1100		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,2-Dichloroethane	20	3100	20		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
1,2-Dichloropropane	--	--	--		6.4 U	3.8 U	4.5 U	230 U	7.2 U	4 U	4.6 U	4.8 U	8.8 U	4.8 U	5.8 U
1,3,5-Trimethylbenzene	8400	52000	8400		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,3-Dichlorobenzene	2400	49000	2400		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,3-Dichloropropane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,4-Dichlorobenzene	1800	13000	1800		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
1,4-Dioxane	100	13000	100		180 U	110 U	130 U	6500 U	210 U	120 U	130 U	140 U	250 U	140 U	170 U
2,2-Dichloropropane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
2-Butanone (MEK)	120	100000	120		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	8.7 J	14 U	17 U
2-Hexanone	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
4-Ethyltoluene	--	--	--		7.4 U	4.4 U	5.2 U	260 U	8.3 U	4.6 U	5.3 U	5.5 U	10 U	5.4 U	6.7 U
4-Methyl-2-pentanone (MIBK)	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
Acetone	50	100000	50		18 U	7.6 J	8 J	650 U	6.7 J	12 U	20	14 U	**75**	14 U	17 U
Acrylonitrile	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
BENZENE, 1,4-DIETHYL	-	--	--		7.4 U	4.4 U	5.2 U	260 U	8.3 U	4.6 U	5.3 U	5.5 U	10 U	5.4 U	6.7 U
Benzene	60	4800	60		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Bromobenzene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Bromochloromethane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Bromodichloromethane	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Bromoform	--	--	--		7.4 U	4.4 U	5.2 U	260 U	8.3 U	4.6 U	5.3 U	5.5 U	10 U	5.4 U	6.7 U
Bromomethane	--	--	--		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
Carbon disulfide	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	4.3 J	25 U	14 U	17 U
Carbon tetrachloride	760	2400	760		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Chlorobenzene	1100	100000	1100		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Chloroethane	--	--	--		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
Chloroform	370	49000	370		2.8 U	1.3 J	1.9 U	98 U	3.1 U	1.7 U	2 U	2.1 U	3.8 U	2 U	2.5 U
Chloromethane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
cis-1,2-Dichloroethene	250	100000	250		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
cis-1,3-Dichloropropene	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Dibromochloromethane	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Dibromochloropropane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-07	MW-FN-07	MW-FN-08	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02	SB-FN-03	SB-FN-03	SB-FN-04
				Sample Date:	12/2/2013	12/12/2013	12/2/2013	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/3/2013	12/9/2013	12/5/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	17-19	0-2	13-15	0-2	12.5-14.5	0-2	7-9	0-2
Dibromomethane	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
Dichlorodifluoromethane	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
Diethyl Ether	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Ethylbenzene	1000	41000	1000		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Hexachlorobutadiene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Isopropylbenzene	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
m+p-Xylene	--	--	--		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
Methylene chloride	50	100000	50		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	2.7 J	17 U
MTBE	930	100000	930		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
Naphthalene	12000	100000	12000		5.7 J	5.5 U	6.5 U	63 J	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
n-Butylbenzene	12000	100000	12000		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
n-Propylbenzene	3900	100000	3900		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
o-Chlorotoluene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
o-Xylene	--	--	--		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
p-Chlorotoluene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
p-Isopropyltoluene	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
sec-Butylbenzene	11000	100000	11000		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Styrene	--	--	--		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U
tert-Butylbenzene	5900	100000	5900		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Tetrachloroethene	1300	19000	1300		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	2	1.7 U
Toluene	700	100000	700		2.8 U	1.6 U	1.9 U	14 J	3.1 U	1.7 U	2 U	2.1 U	3.8 U	3.8	2.5 U
trans-1,2-Dichloroethene	190	100000	190		2.8 U	1.6 U	1.9 U	98 U	3.1 U	1.7 U	2 U	2.1 U	3.8 U	2 U	2.5 U
trans-1,3-Dichloropropene	--	--	--		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
trans-1,4-Dichloro-2-butene	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Trichloroethene	470	21000	470		1.8 U	1.1 U	1.3 U	65 U	2.1 U	1.2 U	1.3 U	1.4 U	2.5 U	1.4 U	1.7 U
Trichlorofluoromethane	--	--	--		9.2 U	5.5 U	6.5 U	330 U	10 U	5.8 U	6.6 U	6.9 U	12 U	6.8 U	8.3 U
Vinyl acetate	--	--	--		18 U	11 U	13 U	650 U	21 U	12 U	13 U	14 U	25 U	14 U	17 U
Vinyl chloride	20	900	20		3.7 U	2.2 U	2.6 U	130 U	4.1 U	2.3 U	2.6 U	2.8 U	5 U	2.7 U	3.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-04	SB-FN-05	SB-FN-05	DUP-SB-FN-05	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08
				Sample Date:	12/9/2013	12/2/2013	12/19/2013	12/19/2013	12/2/2013	12/19/2013	12/2/2013	12/19/2013	12/19/2013	11/27/2013
				Sample Depth (ft bls):	7-9	0-2	13-15	13-15	0-2	7-9	0-2	15-17	15-17	0-2
1,1,1,2-Tetrachloroethane	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
1,1,1-Trichloroethane	680	100000	680		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
1,1,2,2-Tetrachloroethane	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
1,1,2-Trichloroethane	--	--	--		1.8 U	2 U	1.6 U	1.7 U	2.6 U	2.3 U	4.2 U	110 U	200 U	1.9 U
1,1-Dichloroethane	270	26000	270		1.8 U	2 U	1.6 U	1.7 U	2.6 U	2.3 U	4.2 U	110 U	200 U	1.9 U
1,1-Dichloroethene	330	100000	330		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
1,1-Dichloropropene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,2,3-Trichlorobenzene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,2,3-Trichloropropane	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
1,2,4,5-Tetramethylbenzene	--	--	--		4.7 U	5.3 U	4.2 U	4.5 U	6.9 U	6.1 U	11 U	35 J	170 J	5.1 U
1,2,4-Trichlorobenzene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,2,4-Trimethylbenzene	3600	52000	3600		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	210 J	1400	6.3 U
1,2-Dibromoethane	--	--	--		4.7 U	5.3 U	4.2 U	4.5 U	6.9 U	6.1 U	11 U	290 U	520 U	5.1 U
1,2-Dichlorobenzene	1100	100000	1100		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,2-Dichloroethane	20	3100	20		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
1,2-Dichloropropane	--	--	--		4.1 U	4.6 U	3.7 U	3.9 U	6.1 U	5.3 U	9.8 U	250 U	460 U	4.4 U
1,3,5-Trimethylbenzene	8400	52000	8400		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	200 J	6.3 U
1,3-Dichlorobenzene	2400	49000	2400		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,3-Dichloropropane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,4-Dichlorobenzene	1800	13000	1800		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
1,4-Dioxane	100	13000	100		120 U	130 U	100 U	110 U	170 U	150 U	280 U	7200 U	13000 U	130 U
2,2-Dichloropropane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
2-Butanone (MEK)	120	100000	120		15	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
2-Hexanone	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
4-Ethyltoluene	--	--	--		4.7 U	5.3 U	4.2 U	4.5 U	6.9 U	6.1 U	11 U	440	3100	5.1 U
4-Methyl-2-pentanone (MIBK)	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
Acetone	50	100000	50		**64**	13 U	12	16	17 U	15 U	28 U	720 U	1300 U	13 U
Acrylonitrile	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
BENZENE, 1,4-DIETHYL	-	--	--		4.7 U	5.3 U	4.2 U	4.5 U	6.9 U	6.1 U	11 U	110 J	540	5.1 U
Benzene	60	4800	60		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	**540**	1.3 U
Bromobenzene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Bromochloromethane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Bromodichloromethane	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Bromoform	--	--	--		4.7 U	5.3 U	4.2 U	4.5 U	6.9 U	6.1 U	11 U	290 U	520 U	5.1 U
Bromomethane	--	--	--		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	140 U	260 U	2.5 U
Carbon disulfide	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
Carbon tetrachloride	760	2400	760		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Chlorobenzene	1100	100000	1100		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Chloroethane	--	--	--		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	140 U	260 U	2.5 U
Chloroform	370	49000	370		1.8 U	2 U	1.6 U	1.7 U	2.6 U	2.3 U	4.2 U	110 U	200 U	1.9 U
Chloromethane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
cis-1,2-Dichloroethene	250	100000	250		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
cis-1,3-Dichloropropene	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Dibromochloromethane	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Dibromochloropropane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-04	SB-FN-05	SB-FN-05	DUP-SB-FN-05	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08
				Sample Date:	12/9/2013	12/2/2013	12/19/2013	12/19/2013	12/2/2013	12/19/2013	12/2/2013	12/19/2013	12/19/2013	11/27/2013
				Sample Depth (ft bls):	7-9	0-2	13-15	13-15	0-2	7-9	0-2	15-17	15-17	0-2
Dibromomethane	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
Dichlorodifluoromethane	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
Diethyl Ether	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Ethylbenzene	1000	41000	1000		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	89	1000	1.3 U
Hexachlorobutadiene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Isopropylbenzene	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	55 J	520	1.3 U
m+p-Xylene	--	--	--		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	340	3900	2.5 U
Methylene chloride	50	100000	50		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
MTBE	930	100000	930		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	140 U	260 U	2.5 U
Naphthalene	12000	100000	12000		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	8200	**30000**	6.3 U
n-Butylbenzene	12000	100000	12000		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
n-Propylbenzene	3900	100000	3900		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	96 J	1.3 U
o-Chlorotoluene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
o-Xylene	--	--	--		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	160	1800	2.5 U
p-Chlorotoluene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
p-Isopropyltoluene	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	1200	6500	1.3 U
sec-Butylbenzene	11000	100000	11000		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Styrene	--	--	--		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	140 U	260 U	2.5 U
tert-Butylbenzene	5900	100000	5900		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Tetrachloroethene	1300	19000	1300		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Toluene	700	100000	700		1.8 U	2 U	1.6 U	1.7 U	2.6 U	2.3 U	4.2 U	200	**3500**	1.9 U
trans-1,2-Dichloroethene	190	100000	190		1.8 U	2 U	1.6 U	1.7 U	2.6 U	2.3 U	4.2 U	110 U	200 U	1.9 U
trans-1,3-Dichloropropene	--	--	--		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
trans-1,4-Dichloro-2-butene	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Trichloroethene	470	21000	470		1.2 U	1.3 U	1 U	1.1 U	1.7 U	1.5 U	2.8 U	72 U	130 U	1.3 U
Trichlorofluoromethane	--	--	--		5.9 U	6.6 U	5.3 U	5.6 U	8.7 U	7.6 U	14 U	360 U	660 U	6.3 U
Vinyl acetate	--	--	--		12 U	13 U	10 U	11 U	17 U	15 U	28 U	720 U	1300 U	13 U
Vinyl chloride	20	900	20		2.4 U	2.6 U	2.1 U	2.2 U	3.5 U	3 U	5.6 U	140 U	260 U	2.5 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-08	MW-FS-01	MW-FS-01	MW-FS-02	MW-FS-02	MW-FS-03	MW-FS-03	MW-FS-04	MW-FS-04	SB-FS-01
				Sample Date:	12/19/2013	11/27/2013	12/5/2013	11/26/2013	12/2/2013	11/26/2013	12/3/2013	11/26/2013	12/3/2013	11/27/2013
				Sample Depth (ft bls):	6-8	0-2	13-14	0-2	8-10	0-2	8.5-10.5	0-2	7-8	0-2
1,1,1,2-Tetrachloroethane	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
1,1,1-Trichloroethane	680	100000	680		1.3 U	1.2 U	60 U	0.3 J	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
1,1,2,2-Tetrachloroethane	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
1,1,2-Trichloroethane	--	--	--		1.9 U	1.7 U	90 U	1.9 U	1.6 U	1.6 U	900 U	2.7 U	96 U	1.9 U
1,1-Dichloroethane	270	26000	270		1.9 U	1.7 U	90 U	1.9 U	1.6 U	1.6 U	900 U	2.7 U	96 U	1.9 U
1,1-Dichloroethene	330	100000	330		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
1,1-Dichloropropene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,2,3-Trichlorobenzene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,2,3-Trichloropropane	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
1,2,4,5-Tetramethylbenzene	--	--	--		5 U	4.7 U	19 J	5 U	4.3 U	4.3 U	15000	7.1 U	260 U	5 U
1,2,4-Trichlorobenzene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,2,4-Trimethylbenzene	3600	52000	3600		6.3 U	5.8 U	170 J	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,2-Dibromoethane	--	--	--		5 U	4.7 U	240 U	5 U	4.3 U	4.3 U	2400 U	7.1 U	260 U	5 U
1,2-Dichlorobenzene	1100	100000	1100		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,2-Dichloroethane	20	3100	20		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
1,2-Dichloropropane	--	--	--		4.4 U	4.1 U	210 U	4.4 U	3.8 U	3.7 U	2100 U	6.2 U	220 U	4.3 U
1,3,5-Trimethylbenzene	8400	52000	8400		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,3-Dichlorobenzene	2400	49000	2400		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,3-Dichloropropane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,4-Dichlorobenzene	1800	13000	1800		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
1,4-Dioxane	100	13000	100		130 U	120 U	6000 U	130 U	110 U	110 U	60000 U	180 U	6400 U	120 U
2,2-Dichloropropane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
2-Butanone (MEK)	120	100000	120		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	2.8 J	640 U	12 U
2-Hexanone	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
4-Ethyltoluene	--	--	--		5 U	4.7 U	390	5 U	4.3 U	4.3 U	1100 J	7.1 U	260 U	5 U
4-Methyl-2-pentanone (MIBK)	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
Acetone	50	100000	50		9.8 J	12 U	600 U	13 U	7.6 J	11 U	6000 U	29	640 U	16
Acrylonitrile	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
BENZENE, 1,4-DIETHYL	-	--	--		5 U	4.7 U	240 U	5 U	4.3 U	4.3 U	6500	7.1 U	260 U	5 U
Benzene	60	4800	60		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Bromobenzene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Bromochloromethane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Bromodichloromethane	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Bromoform	--	--	--		5 U	4.7 U	240 U	5 U	4.3 U	4.3 U	2400 U	7.1 U	260 U	5 U
Bromomethane	--	--	--		2.5 U	2.3 U	120 U	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
Carbon disulfide	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
Carbon tetrachloride	760	2400	760		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Chlorobenzene	1100	100000	1100		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Chloroethane	--	--	--		2.5 U	2.3 U	120 U	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
Chloroform	370	49000	370		1.9 U	1.7 U	90 U	1.9 U	1.6 U	1.6 U	900 U	2.7 U	96 U	1.9 U
Chloromethane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
cis-1,2-Dichloroethene	250	100000	250		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
cis-1,3-Dichloropropene	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Dibromochloromethane	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Dibromochloropropane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-08	MW-FS-01	MW-FS-01	MW-FS-02	MW-FS-02	MW-FS-03	MW-FS-03	MW-FS-04	MW-FS-04	SB-FS-01
				Sample Date:	12/19/2013	11/27/2013	12/5/2013	11/26/2013	12/2/2013	11/26/2013	12/3/2013	11/26/2013	12/3/2013	11/27/2013
				Sample Depth (ft bls):	6-8	0-2	13-14	0-2	8-10	0-2	8.5-10.5	0-2	7-8	0-2
Dibromomethane	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
Dichlorodifluoromethane	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
Diethyl Ether	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Ethylbenzene	1000	41000	1000		1.3 U	1.2 U	130	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Hexachlorobutadiene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Isopropylbenzene	--	--	--		1.3 U	1.2 U	110	1.3 U	1.1 U	1.1 U	4300	1.8 U	64 U	1.2 U
m+p-Xylene	--	--	--		2.5 U	2.3 U	250	0.48 J	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
Methylene chloride	50	100000	50		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
MTBE	930	100000	930		2.5 U	2.3 U	120 U	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
Naphthalene	12000	100000	12000		6.3 U	5.8 U	1200	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
n-Butylbenzene	12000	100000	12000		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	8300	1.8 U	64 U	1.2 U
n-Propylbenzene	3900	100000	3900		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	**7500**	1.8 U	64 U	1.2 U
o-Chlorotoluene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
o-Xylene	--	--	--		2.5 U	2.3 U	140	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
p-Chlorotoluene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
p-Isopropyltoluene	--	--	--		1.3 U	1.2 U	1200	1.3 U	1.1 U	1.1 U	2700	1.8 U	64 U	1.2 U
sec-Butylbenzene	11000	100000	11000		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	6500	1.8 U	64 U	1.2 U
Styrene	--	--	--		2.5 U	2.3 U	120 U	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U
tert-Butylbenzene	5900	100000	5900		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Tetrachloroethene	1300	19000	1300		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Toluene	700	100000	700		1.9 U	1.7 U	90 U	1.9 U	1.6 U	1.6 U	900 U	2.7 U	96 U	1.9 U
trans-1,2-Dichloroethene	190	100000	190		1.9 U	1.7 U	90 U	1.9 U	1.6 U	1.6 U	900 U	2.7 U	96 U	1.9 U
trans-1,3-Dichloropropene	--	--	--		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
trans-1,4-Dichloro-2-butene	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Trichloroethene	470	21000	470		1.3 U	1.2 U	60 U	1.3 U	1.1 U	1.1 U	600 U	1.8 U	64 U	1.2 U
Trichlorofluoromethane	--	--	--		6.3 U	5.8 U	300 U	6.3 U	5.4 U	5.3 U	3000 U	8.9 U	320 U	6.2 U
Vinyl acetate	--	--	--		13 U	12 U	600 U	13 U	11 U	11 U	6000 U	18 U	640 U	12 U
Vinyl chloride	20	900	20		2.5 U	2.3 U	120 U	2.5 U	2.2 U	2.1 U	1200 U	3.6 U	130 U	2.5 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FS-01	SB-FS-02	SB-FS-03	SB-FS-03	MW-ZA-01	MW-ZA-01	MW-ZA-02	MW-ZA-02	MW-ZA-03	MW-ZA-03
				Sample Date:	12/4/2013	12/4/2013	11/26/2013	12/3/2013	12/4/2013	12/10/2013	12/4/2013	12/6/2013	12/4/2013	12/4/2013
				Sample Depth (ft bls):	10-11	0-2	0-2	8-10	0-2	8-10	0-2	9-11	0-2	4-5
1,1,1,2-Tetrachloroethane	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
1,1,1-Trichloroethane	680	100000	680		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
1,1,2,2-Tetrachloroethane	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
1,1,2-Trichloroethane	--	--	--		1.5 U	1.8 U	1.6 U	920 U	1.6 U	1.5 U	1.7 U	1.7 U	2 U	560 U
1,1-Dichloroethane	270	26000	270		1.5 U	1.8 U	1.6 U	920 U	1.6 U	1.5 U	1.7 U	1.7 U	2 U	560 U
1,1-Dichloroethene	330	100000	330		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
1,1-Dichloropropene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,2,3-Trichlorobenzene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,2,3-Trichloropropane	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
1,2,4,5-Tetramethylbenzene	--	--	--		3.9 U	4.8 U	4.2 U	18000	4.4 U	4.1 U	4.5 U	2.8 J	5.4 U	1500 U
1,2,4-Trichlorobenzene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,2,4-Trimethylbenzene	3600	52000	3600		4.9 U	6 U	5.2 U	**19000**	5.4 U	5.1 U	5.6 U	3 J	6.8 U	1900 U
1,2-Dibromoethane	--	--	--		3.9 U	4.8 U	4.2 U	2500 U	4.4 U	4.1 U	4.5 U	4.6 U	5.4 U	1500 U
1,2-Dichlorobenzene	1100	100000	1100		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,2-Dichloroethane	20	3100	20		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
1,2-Dichloropropane	--	--	--		3.4 U	4.2 U	3.7 U	2200 U	3.8 U	3.6 U	3.9 U	4 U	4.7 U	1300 U
1,3,5-Trimethylbenzene	8400	52000	8400		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	2.4 J	6.8 U	1900 U
1,3-Dichlorobenzene	2400	49000	2400		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,3-Dichloropropane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,4-Dichlorobenzene	1800	13000	1800		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
1,4-Dioxane	100	13000	100		97 U	120 U	100 U	62000 U	110 U	100 U	110 U	120 U	140 U	37000 U
2,2-Dichloropropane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
2-Butanone (MEK)	120	100000	120		9.7 U	12 U	10 U	6200 U	11 U	4.4 J	2.1 J	3.4 J	2 J	3700 U
2-Hexanone	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
4-Ethyltoluene	--	--	--		3.9 U	4.8 U	4.2 U	1200 J	4.4 U	4.1 U	4.5 U	2 J	5.4 U	500 J
4-Methyl-2-pentanone (MIBK)	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
Acetone	50	100000	50		9.7 U	12 U	10 U	6200 U	6.4 J	34	13	42	29	**3400 J**
Acrylonitrile	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
BENZENE, 1,4-DIETHYL	-	--	--		3.9 U	4.8 U	4.2 U	7800	4.4 U	4.1 U	4.5 U	4.9	5.4 U	1500 U
Benzene	60	4800	60		0.97 U	1.2 U	1 U	620 U	1.1 U	0.82 J	1.1 U	1.2 U	1.4 U	370 U
Bromobenzene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Bromochloromethane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Bromodichloromethane	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Bromoform	--	--	--		3.9 U	4.8 U	4.2 U	2500 U	4.4 U	4.1 U	4.5 U	4.6 U	5.4 U	1500 U
Bromomethane	--	--	--		1.9 U	2.4 U	2.1 U	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	750 U
Carbon disulfide	--	--	--		4.5 J	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
Carbon tetrachloride	760	2400	760		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Chlorobenzene	1100	100000	1100		0.97 U	0.48 J	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Chloroethane	--	--	--		1.9 U	2.4 U	2.1 U	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	750 U
Chloroform	370	49000	370		1 J	1.8 U	1.6 U	920 U	1.6 U	1.5 U	1.7 U	1.7 U	2 U	560 U
Chloromethane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	2.3 J	5.6 U	5.8 U	6.8 U	1900 U
cis-1,2-Dichloroethene	250	100000	250		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
cis-1,3-Dichloropropene	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Dibromochloromethane	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Dibromochloropropane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FS-01	SB-FS-02	SB-FS-03	SB-FS-03	MW-ZA-01	MW-ZA-01	MW-ZA-02	MW-ZA-02	MW-ZA-03	MW-ZA-03
				Sample Date:	12/4/2013	12/4/2013	11/26/2013	12/3/2013	12/4/2013	12/10/2013	12/4/2013	12/6/2013	12/4/2013	12/4/2013
				Sample Depth (ft bls):	10-11	0-2	0-2	8-10	0-2	8-10	0-2	9-11	0-2	4-5
Dibromomethane	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
Dichlorodifluoromethane	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
Diethyl Ether	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Ethylbenzene	1000	41000	1000		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Hexachlorobutadiene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Isopropylbenzene	--	--	--		0.97 U	1.2 U	1 U	1800	1.1 U	1 U	1.1 U	1.6	1.4 U	370 U
m+p-Xylene	--	--	--		1.9 U	2.4 U	1.1 J	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	260 J
Methylene chloride	50	100000	50		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
MTBE	930	100000	930		1.9 U	2.4 U	2.1 U	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	750 U
Naphthalene	12000	100000	12000		0.77 J	1.2 J	5.2 U	**14000**	5.4 U	5.1 U	0.92 J	5.8 U	6.8 U	3600
n-Butylbenzene	12000	100000	12000		0.97 U	1.2 U	1 U	7500	1.1 U	1 U	1.1 U	6.6	1.4 U	370 U
n-Propylbenzene	3900	100000	3900		0.97 U	1.2 U	1 U	**4600**	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
o-Chlorotoluene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
o-Xylene	--	--	--		1.9 U	2.4 U	0.56 J	1200 U	2.2 U	2 U	2.2 U	1.2 J	2.7 U	750 U
p-Chlorotoluene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
p-Isopropyltoluene	--	--	--		0.97 U	1.2 U	1 U	4300	1.1 U	1 U	1.1 U	10	1.4 U	11000
sec-Butylbenzene	11000	100000	11000		0.97 U	1.2 U	1 U	5000	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Styrene	--	--	--		1.9 U	2.4 U	2.1 U	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	750 U
tert-Butylbenzene	5900	100000	5900		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Tetrachloroethene	1300	19000	1300		0.97 U	1.2 U	1 U	620 U	1.1 U	1.3	1.1 U	1.2 U	1.4 U	370 U
Toluene	700	100000	700		1.5 U	1.8 U	0.21 J	920 U	1.6 U	1.5 U	1.7 U	1.7 U	2 U	560 U
trans-1,2-Dichloroethene	190	100000	190		1.5 U	1.8 U	1.6 U	920 U	1.6 U	1.5 U	1.7 U	1.7 U	2 U	560 U
trans-1,3-Dichloropropene	--	--	--		0.97 U	1.2 U	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
trans-1,4-Dichloro-2-butene	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Trichloroethene	470	21000	470		0.97 U	0.59 J	1 U	620 U	1.1 U	1 U	1.1 U	1.2 U	1.4 U	370 U
Trichlorofluoromethane	--	--	--		4.9 U	6 U	5.2 U	3100 U	5.4 U	5.1 U	5.6 U	5.8 U	6.8 U	1900 U
Vinyl acetate	--	--	--		9.7 U	12 U	10 U	6200 U	11 U	10 U	11 U	12 U	14 U	3700 U
Vinyl chloride	20	900	20		1.9 U	2.4 U	2.1 U	1200 U	2.2 U	2 U	2.2 U	2.3 U	2.7 U	750 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-ZA-03	SB-ZA-04	MW-ZA-04	SB-ZA-02	SB-ZA-02	SB-ZA-03	SB-ZA-03	SB-ZA-03
				Sample Date:	12/10/2013	12/4/2013	12/6/2013	12/4/2013	12/10/2013	12/4/2013	12/4/2013	12/10/2013
				Sample Depth (ft bls):	7-9	0-2	9-10	0-2	10.5-12.5	0-2	4-5	5-6.5
1,1,1,2-Tetrachloroethane	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
1,1,1-Trichloroethane	680	100000	680		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
1,1,2,2-Tetrachloroethane	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
1,1,2-Trichloroethane	--	--	--		1.7 U	1.8 U	96 U	2.1 U	2.7 U	2 U	740 U	1.5 U
1,1-Dichloroethane	270	26000	270		1.7 U	1.8 U	96 U	2.1 U	2.7 U	2 U	740 U	1.5 U
1,1-Dichloroethene	330	100000	330		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
1,1-Dichloropropene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,2,3-Trichlorobenzene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,2,3-Trichloropropane	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
1,2,4,5-Tetramethylbenzene	--	--	--		4.6 U	4.8 U	17 J	5.5 U	0.47 J	5.5 U	130 J	4.1 U
1,2,4-Trichlorobenzene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,2,4-Trimethylbenzene	3600	52000	3600		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,2-Dibromoethane	--	--	--		4.6 U	4.8 U	260 U	5.5 U	7.1 U	5.5 U	2000 U	4.1 U
1,2-Dichlorobenzene	1100	100000	1100		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,2-Dichloroethane	20	3100	20		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
1,2-Dichloropropane	--	--	--		4 U	4.2 U	220 U	4.8 U	6.2 U	4.8 U	1700 U	3.6 U
1,3,5-Trimethylbenzene	8400	52000	8400		5.8 U	5.9 U	240 J	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,3-Dichlorobenzene	2400	49000	2400		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,3-Dichloropropane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,4-Dichlorobenzene	1800	13000	1800		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
1,4-Dioxane	100	13000	100		120 U	120 U	6400 U	140 U	180 U	140 U	49000 U	100 U
2,2-Dichloropropane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
2-Butanone (MEK)	120	100000	120		2.9 J	6.6 J	640 U	14 U	18 U	14 U	4900 U	10 U
2-Hexanone	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
4-Ethyltoluene	--	--	--		4.6 U	4.8 U	260 U	5.5 U	7.1 U	5.5 U	2000 U	4.1 U
4-Methyl-2-pentanone (MIBK)	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
Acetone	50	100000	50		**52**	**51**	640 U	14 U	22	14 U	4900 U	10 U
Acrylonitrile	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
BENZENE, 1,4-DIETHYL	-	--	--		4.6 U	4.8 U	260 U	5.5 U	7.1 U	5.5 U	2000 U	4.1 U
Benzene	60	4800	60		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Bromobenzene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Bromochloromethane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Bromodichloromethane	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Bromoform	--	--	--		4.6 U	4.8 U	260 U	5.5 U	7.1 U	5.5 U	2000 U	4.1 U
Bromomethane	--	--	--		2.3 U	2.4 U	130 U	2.7 U	3.6 U	2.7 U	990 U	2.1 U
Carbon disulfide	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
Carbon tetrachloride	760	2400	760		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Chlorobenzene	1100	100000	1100		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Chloroethane	--	--	--		2.3 U	2.4 U	130 U	2.7 U	3.6 U	2.7 U	990 U	2.1 U
Chloroform	370	49000	370		1.7 U	1.8 U	96 U	2.1 U	2.7 U	2 U	740 U	1.5 U
Chloromethane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
cis-1,2-Dichloroethene	250	100000	250		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
cis-1,3-Dichloropropene	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Dibromochloromethane	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Dibromochloropropane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U

Table 2. Summary of Volatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-ZA-03	SB-ZA-04	MW-ZA-04	SB-ZA-02	SB-ZA-02	SB-ZA-03	SB-ZA-03	SB-ZA-03
				Sample Date:	12/10/2013	12/4/2013	12/6/2013	12/4/2013	12/10/2013	12/4/2013	12/4/2013	12/10/2013
				Sample Depth (ft bls):	7-9	0-2	9-10	0-2	10.5-12.5	0-2	4-5	5-6.5
Dibromomethane	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
Dichlorodifluoromethane	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
Diethyl Ether	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Ethylbenzene	1000	41000	1000		1.2 U	1.2 U	83	1.4 U	1.8 U	1.4 U	490 U	1 U
Hexachlorobutadiene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Isopropylbenzene	--	--	--		1.2 U	1.2 U	96	1.4 U	1.8 U	1.4 U	490 U	1 U
m+p-Xylene	--	--	--		2.3 U	2.4 U	170	2.7 U	3.6 U	2.7 U	990 U	2.1 U
Methylene chloride	50	100000	50		2.8 J	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
MTBE	930	100000	930		2.3 U	2.4 U	130 U	2.7 U	3.6 U	2.7 U	990 U	2.1 U
Naphthalene	12000	100000	12000		1.4 J	5.9 U	270 J	3.3 J	1.7 J	1.2 J	**73000**	18
n-Butylbenzene	12000	100000	12000		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
n-Propylbenzene	3900	100000	3900		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
o-Chlorotoluene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
o-Xylene	--	--	--		2.3 U	2.4 U	230	2.7 U	3.6 U	2.7 U	990 U	2.1 U
p-Chlorotoluene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
p-Isopropyltoluene	--	--	--		11	1.2 U	25000 E	1.4 U	1.8 U	1.4 U	490 U	1 U
sec-Butylbenzene	11000	100000	11000		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Styrene	--	--	--		2.3 U	2.4 U	130 U	2.7 U	3.6 U	2.7 U	990 U	2.1 U
tert-Butylbenzene	5900	100000	5900		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Tetrachloroethene	1300	19000	1300		1.2 U	4.3	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Toluene	700	100000	700		1.7 U	3.4	38 J	2.1 U	2.7 U	0.31 J	740 U	1.5 U
trans-1,2-Dichloroethene	190	100000	190		1.7 U	1.8 U	96 U	2.1 U	2.7 U	2 U	740 U	1.5 U
trans-1,3-Dichloropropene	--	--	--		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
trans-1,4-Dichloro-2-butene	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Trichloroethene	470	21000	470		1.2 U	1.2 U	64 U	1.4 U	1.8 U	1.4 U	490 U	1 U
Trichlorofluoromethane	--	--	--		5.8 U	5.9 U	320 U	6.9 U	8.9 U	6.8 U	2500 U	5.2 U
Vinyl acetate	--	--	--		12 U	12 U	640 U	14 U	18 U	14 U	4900 U	10 U
Vinyl chloride	20	900	20		2.3 U	2.4 U	130 U	2.7 U	3.6 U	2.7 U	990 U	2.1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-AE-01	MW-AE-01	MW-AE-02	MW-AE-02	MW-AE-03	MW-AE-03	MW-AE-04	MW-AE-04	MW-AE-05	MW-AE-05	SB-AE-01
				Sample Date:	12/6/2013	12/18/2013	12/6/2013	12/13/2013	12/6/2013	12/13/2013	12/5/2013	12/10/2013	12/6/2013	12/18/2013	12/6/2013
				Sample Depth (ft bls):	0-2	11-13	0-2	10-12	0-2	17-19	0-2	12-14	0-2	18-20	0-2
1,1'-Biphenyl	--	--	--		400 U	590 U	820 U	470 U	780 U	470 U	420 J	450 U	440 U	470 U	400 U
1,2,4,5-Tetrachlorobenzene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
1,2,4-Trichlorobenzene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
1,2-Dichlorobenzene	1100	100000	1100		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
1,3-Dichlorobenzene	2400	49000	2400		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
1,4-Dichlorobenzene	1800	13000	1800		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2,2'-oxybis (1-chloropropane)	--	--	--		210 U	310 U	430 U	250 U	410 U	240 U	930 U	240 U	230 U	250 U	210 U
2,4,5-Trichlorophenol	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2,4,6-Trichlorophenol	--	--	--		100 U	160 U	220 U	120 U	210 U	120 U	460 U	120 U	110 U	120 U	110 U
2,4-Dichlorophenol	--	--	--		160 U	230 U	320 U	180 U	310 U	180 U	700 U	180 U	170 U	190 U	160 U
2,4-Dimethylphenol	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2,4-Dinitrophenol	--	--	--		840 U	1200 U	1700 U	990 U	1600 U	980 U	3700 U	950 U	920 U	1000 U	850 U
2,4-Dinitrotoluene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2,6-Dinitrotoluene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2-Chloronaphthalene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2-Chlorophenol	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2-Methylnaphthalene	--	--	--		210 U	310 U	150 J	250 U	410 U	240 U	1200	240 U	130 J	250 U	210 U
2-Methylphenol	330	100000	330		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2-Nitroaniline	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
2-Nitrophenol	--	--	--		380 U	560 U	780 U	440 U	740 U	440 U	1700 U	430 U	410 U	450 U	380 U
3&4-Methylphenol	330	100000	330		250 U	380 U	520 U	300 U	490 U	290 U	1100 U	280 U	280 U	300 U	260 U
3,3'-Dichlorobenzidine	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
3-Nitroaniline	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4,6-Dinitro-2-methylphenol	--	--	--		460 U	680 U	940 U	530 U	890 U	530 U	2000 U	510 U	500 U	540 U	460 U
4-Bromophenyl phenyl ether	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4-Chloro-3-methylphenol	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4-Chloroaniline	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4-Chlorophenyl phenyl ether	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4-Nitroaniline	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
4-Nitrophenol	--	--	--		240 U	360 U	500 U	290 U	480 U	290 U	1100 U	280 U	270 U	290 U	250 U
Acenaphthene	20000	100000	98000		100 J	59 J	75 J	160 U	270 U	160 U	4600	160 U	120 J	170 U	140 U
Acenaphthylene	100000	100000	107000		130 J	210 U	450	160 U	270 U	160 U	1100	160 U	170	170 U	71 J
Acetophenone	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Anthracene	100000	100000	1000000		250	81 J	310	120 U	210 U	120 U	13000	120 U	200	120 U	100 J
Benzo[a]anthracene	1000	1000	1000		580	140 J	720	120 U	210 U	120 U	**33000 E**	120 U	**1300**	120 U	260
Benzo[a]pyrene	1000	1000	22000		600	100 J	770	160 U	270 U	160 U	**26000**	160 U	920	170 U	310
Benzo[b]fluoranthene	1000	1000	1700		760	120 J	870	120 U	210 U	120 U	**37000**	120 U	**1400**	120 U	340
Benzo[g,h,i]perylene	100000	100000	1000000		470	210 U	530	160 U	270 U	160 U	18000	160 U	690	170 U	250
Benzo[k]fluoranthene	800	3900	1700		280	52 J	360	120 U	210 U	120 U	**11000**	120 U	580	120 U	140
Benzoic Acid	--	--	--		570 U	840 U	1200 U	670 U	1100 U	660 U	2500 U	640 U	620 U	670 U	570 U
Benzyl Alcohol	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Bis(2-chloroethoxy)methane	--	--	--		190 U	280 U	390 U	220 U	370 U	220 U	840 U	210 U	210 U	220 U	190 U
Bis(2-chloroethyl) ether	--	--	--		160 U	230 U	320 U	180 U	310 U	180 U	700 U	180 U	170 U	190 U	160 U
Bis(2-ethylhexyl) phthalate	--	--	--		47 J	260 U	360 U	200 U	170 J	200 U	780 U	200 U	190 U	210 U	55 J
Butylbenzyl phthalate	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-AE-01	MW-AE-01	MW-AE-02	MW-AE-02	MW-AE-03	MW-AE-03	MW-AE-04	MW-AE-04	MW-AE-05	MW-AE-05	SB-AE-01
				Sample Date:	12/6/2013	12/18/2013	12/6/2013	12/13/2013	12/6/2013	12/13/2013	12/5/2013	12/10/2013	12/6/2013	12/18/2013	12/6/2013
				Sample Depth (ft bls):	0-2	11-13	0-2	10-12	0-2	17-19	0-2	12-14	0-2	18-20	0-2
Carbazole	--	--	--		93 J	260 U	360 U	200 U	340 U	200 U	4400	200 U	71 J	210 U	49 J
Chrysene	1000	3900	1000		630	140 J	820	120 U	75 J	120 U	**33000 E**	120 U	**1200**	120 U	280
Dibenzo[a,h]anthracene	330	330	1000000		79 J	160 U	110 J	120 U	210 U	120 U	**4700**	120 U	200	120 U	38 J
Dibenzofuran	7000	59000	210000		71 J	260 U	360 U	200 U	340 U	200 U	3800	200 U	78 J	210 U	180 U
Diethyl phthalate	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Dimethyl phthalate	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Di-n-butyl phthalate	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Di-n-octyl phthalate	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Fluoranthene	100000	100000	1000000		1300	260	1100	120 U	190 J	120 U	59000 E	120 U	2200	120 U	650
Fluorene	30000	100000	386000		98 J	260 U	100 J	200 U	340 U	200 U	4800	200 U	120 J	210 U	180 U
Hexachlorobenzene	330	1200	3200		100 U	160 U	220 U	120 U	210 U	120 U	460 U	120 U	110 U	120 U	110 U
Hexachlorobutadiene	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Hexachlorocyclopentadiene	--	--	--		500 U	750 U	1000 U	590 U	980 U	590 U	2200 U	570 U	550 U	600 U	510 U
Hexachloroethane	--	--	--		140 U	210 U	290 U	160 U	270 U	160 U	620 U	160 U	150 U	170 U	140 U
Indeno[1,2,3-cd]pyrene	500	500	8200		480	210 U	**550**	160 U	270 U	160 U	**20000**	160 U	**770**	170 U	250
Isophorone	--	--	--		160 U	230 U	320 U	180 U	310 U	180 U	700 U	180 U	170 U	190 U	160 U
Naphthalene	12000	100000	12000		84 J	130 J	190 J	200 U	340 U	200 U	2100	200 U	96 J	210 U	180 U
Nitrobenzene	--	--	--		160 U	230 U	320 U	180 U	310 U	180 U	700 U	180 U	170 U	190 U	160 U
n-Nitrosodi-n-propylamine	--	--	--		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
n-Nitrosodiphenylamine	--	--	--		140 U	210 U	290 U	160 U	270 U	160 U	620 U	160 U	150 U	170 U	140 U
Pentachlorophenol	800	6700	800		140 U	210 U	290 U	160 U	270 U	160 U	620 U	160 U	150 U	170 U	140 U
Phenanthrene	100000	100000	1000000		880	180	680	120 U	150 J	120 U	48000 E	120 U	790	120 U	430
Phenol	330	100000	330		180 U	260 U	360 U	200 U	340 U	200 U	780 U	200 U	190 U	210 U	180 U
Pyrene	100000	100000	1000000		1100	230	1200	120 U	160 J	120 U	52000 E	120 U	1900	120 U	580

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-01	SB-AE-02	SB-AE-02	SB-AE-03	SB-AE-03	SB-AE-04	SB-AE-04	MW-FN-01	MW-FN-01	MW-FN-02	MW-FN-02
				Sample Date:	12/12/2013	12/5/2013	12/12/2013	12/6/2013	12/6/2013	12/6/2013	12/12/2013	12/4/2013	12/9/2013	12/3/2013	12/9/2013
				Sample Depth (ft bls):	7-9	0-2	13-15	0-2	2-3	0-2	5-7	0-2	10-12	0-2	13-15
1,1'-Biphenyl	--	--	--		450 U	410 U	1400 U	410 U	4200 U	430 U	420 U	400 U	440 U	930 U	480 U
1,2,4,5-Tetrachlorobenzene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	98 J	190 U	410 U	210 U
1,2,4-Trichlorobenzene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	370	190 U	410 U	210 U
1,2-Dichlorobenzene	1100	100000	1100		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	270	190 U	410 U	210 U
1,3-Dichlorobenzene	2400	49000	2400		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	290	190 U	410 U	210 U
1,4-Dichlorobenzene	1800	13000	1800		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	160 J	190 U	410 U	210 U
2,2'-oxybis (1-chloropropane)	--	--	--		240 U	220 U	710 U	210 U	2200 U	220 U	220 U	210 U	230 U	490 U	250 U
2,4,5-Trichlorophenol	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2,4,6-Trichlorophenol	--	--	--		120 U	110 U	360 U	110 U	1100 U	110 U	110 U	110 U	120 U	240 U	130 U
2,4-Dichlorophenol	--	--	--		180 U	160 U	530 U	160 U	1700 U	170 U	170 U	160 U	170 U	370 U	190 U
2,4-Dimethylphenol	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2,4-Dinitrophenol	--	--	--		960 U	870 U	2800 U	860 U	8900 U	900 U	890 U	850 U	930 U	2000 U	1000 U
2,4-Dinitrotoluene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2,6-Dinitrotoluene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2-Chloronaphthalene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2-Chlorophenol	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2-Methylnaphthalene	--	--	--		240 U	220 U	710 U	210 U	2200 U	220 U	220 U	230	230 U	490 U	250 U
2-Methylphenol	330	100000	330		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2-Nitroaniline	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
2-Nitrophenol	--	--	--		430 U	390 U	1300 U	380 U	4000 U	400 U	400 U	380 U	420 U	880 U	450 U
3&4-Methylphenol	330	100000	330		290 U	260 U	860 U	260 U	2700 U	270 U	270 U	250 U	280 U	590 U	300 U
3,3'-Dichlorobenzidine	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
3-Nitroaniline	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4,6-Dinitro-2-methylphenol	--	--	--		520 U	470 U	1500 U	460 U	4800 U	490 U	480 U	460 U	500 U	1000 U	550 U
4-Bromophenyl phenyl ether	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4-Chloro-3-methylphenol	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4-Chloroaniline	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4-Chlorophenyl phenyl ether	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4-Nitroaniline	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
4-Nitrophenol	--	--	--		280 U	250 U	830 U	250 U	2600 U	260 U	260 U	250 U	270 U	570 U	290 U
Acenaphthene	20000	100000	98000		160 U	41 J	480 U	49 J	1500 U	150 U	150 U	46 J	160 U	200 J	170 U
Acenaphthylene	100000	100000	107000		160 U	160	480 U	280	970 J	150 U	150 U	940	160 U	180 J	170 U
Acetophenone	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Anthracene	100000	100000	1000000		120 U	86 J	360 U	250	1000 J	110 U	63 J	670	59 J	840	130 U
Benzo[a]anthracene	1000	1000	1000		110 J	440	360 U	960	**2000**	54 J	150	**2200**	160	**3400**	49 J
Benzo[a]pyrene	1000	1000	22000		78 J	540	480 U	820	**2100**	54 J	130 J	**1900**	99 J	**3300**	70 J
Benzo[b]fluoranthene	1000	1000	1700		110 J	790	360 U	1000	**2400**	67 J	200	**2100**	120	**4000**	58 J
Benzo[g,h,i]perylene	100000	100000	1000000		44 J	460	480 U	470	1600	44 J	99 J	1600	56 J	2000	47 J
Benzo[k]fluoranthene	800	3900	1700		120 U	240	360 U	440	750 J	110 U	69 J	740	49 J	**1600**	130 U
Benzoic Acid	--	--	--		640 U	580 U	1900 U	580 U	6000 U	610 U	600 U	570 U	630 U	1300 U	680 U
Benzyl Alcohol	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Bis(2-chloroethoxy)methane	--	--	--		210 U	200 U	640 U	190 U	2000 U	200 U	200 U	190 U	210 U	440 U	230 U
Bis(2-chloroethyl) ether	--	--	--		180 U	160 U	530 U	160 U	1700 U	170 U	170 U	160 U	170 U	370 U	190 U
Bis(2-ethylhexyl) phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	120 J	280 J	230
Butylbenzyl phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-AE-01 12/12/2013 7-9	SB-AE-02 12/5/2013 0-2	SB-AE-02 12/12/2013 13-15	SB-AE-03 12/6/2013 0-2	SB-AE-03 12/6/2013 2-3	SB-AE-04 12/6/2013 0-2	SB-AE-04 12/12/2013 5-7	MW-FN-01 12/4/2013 0-2	MW-FN-01 12/9/2013 10-12	MW-FN-02 12/3/2013 0-2	MW-FN-02 12/9/2013 13-15
Carbazole	--	--	--		200 U	63 J	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	210 J	210 U
Chrysene	1000	3900	1000		110 J	670	360 U	920	**2100**	56 J	200	**2500**	140	**3400**	51 J
Dibenzo[a,h]anthracene	330	330	1000000		120 U	78 J	360 U	130	1100 U	110 U	110 U	290	120 U	**570**	130 U
Dibenzofuran	7000	59000	210000		200 U	180 U	590 U	61 J	1800 U	190 U	190 U	68 J	190 U	140 J	210 U
Diethyl phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Dimethyl phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Di-n-butyl phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Di-n-octyl phthalate	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Fluoranthene	100000	100000	1000000		220	1400	360 U	1300	4200	89 J	290	2800	350	5600	130 U
Fluorene	30000	100000	386000		200 U	180 U	590 U	58 J	1800 U	190 U	190 U	160 J	190 U	170 J	210 U
Hexachlorobenzene	330	1200	3200		120 U	110 U	360 U	110 U	1100 U	110 U	110 U	110 U	120 U	240 U	130 U
Hexachlorobutadiene	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Hexachlorocyclopentadiene	--	--	--		570 U	520 U	1700 U	510 U	5300 U	540 U	530 U	510 U	560 U	1200 U	600 U
Hexachloroethane	--	--	--		160 U	140 U	480 U	140 U	1500 U	150 U	150 U	140 U	160 U	320 U	170 U
Indeno[1,2,3-cd]pyrene	500	500	8200		160 U	470	480 U	**540**	**1600**	150 U	84 J	**1300**	57 J	**2200**	170 U
Isophorone	--	--	--		180 U	160 U	530 U	160 U	1700 U	170 U	170 U	160 U	170 U	370 U	190 U
Naphthalene	12000	100000	12000		200 U	180 U	590 U	71 J	620 J	190 U	190 U	320	190 U	410 U	210 U
Nitrobenzene	--	--	--		180 U	160 U	530 U	160 U	1700 U	170 U	170 U	160 U	170 U	370 U	190 U
n-Nitrosodi-n-propylamine	--	--	--		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
n-Nitrosodiphenylamine	--	--	--		160 U	140 U	480 U	140 U	1500 U	150 U	150 U	140 U	160 U	320 U	170 U
Pentachlorophenol	800	6700	800		160 U	140 U	480 U	140 U	1500 U	150 U	150 U	140 U	160 U	320 U	170 U
Phenanthrene	100000	100000	1000000		120	630	360 U	540	3100	42 J	180	1500	180	2400	130 U
Phenol	330	100000	330		200 U	180 U	590 U	180 U	1800 U	190 U	190 U	180 U	190 U	410 U	210 U
Pyrene	100000	100000	1000000		210	1200	360 U	1200	4200	90 J	300	5400	550	5100	56 J

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07	MW-FN-08
				Sample Date:	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013	12/11/2013	12/3/2013	12/11/2013	12/2/2013	12/12/2013	12/2/2013
				Sample Depth (ft bls):	0-2	10-12	0-2	13-15	0-2	11-13	0-2	21-23	0-2	7-9	0-2
1,1'-Biphenyl	--	--	--		420 U	430 U	1200 U	430 U	420 U	230 J	420 U	490 U	420 U	450 U	840 U
1,2,4,5-Tetrachlorobenzene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
1,2,4-Trichlorobenzene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
1,2-Dichlorobenzene	1100	100000	1100		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
1,3-Dichlorobenzene	2400	49000	2400		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
1,4-Dichlorobenzene	1800	13000	1800		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2,2'-oxybis (1-chloropropane)	--	--	--		220 U	230 U	650 U	220 U	220 U	230 U	220 U	260 U	220 U	240 U	440 U
2,4,5-Trichlorophenol	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2,4,6-Trichlorophenol	--	--	--		110 U	110 U	320 U	110 U	110 U	120 U	110 U	130 U	110 U	120 U	220 U
2,4-Dichlorophenol	--	--	--		170 U	170 U	490 U	170 U	170 U	170 U	160 U	190 U	170 U	180 U	330 U
2,4-Dimethylphenol	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2,4-Dinitrophenol	--	--	--		900 U	910 U	2600 U	900 U	890 U	920 U	880 U	1000 U	890 U	950 U	1800 U
2,4-Dinitrotoluene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2,6-Dinitrotoluene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2-Chloronaphthalene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2-Chlorophenol	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2-Methylnaphthalene	--	--	--		210 J	230 U	650 U	220 U	220	760	130 J	260 U	97 J	240 U	320 J
2-Methylphenol	330	100000	330		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2-Nitroaniline	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
2-Nitrophenol	--	--	--		400 U	410 U	1200 U	400 U	400 U	420 U	400 U	470 U	400 U	430 U	800 U
3&4-Methylphenol	330	100000	330		270 U	270 U	780 U	270 U	110 J	280 U	69 J	310 U	260 U	290 U	530 U
3,3'-Dichlorobenzidine	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
3-Nitroaniline	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4,6-Dinitro-2-methylphenol	--	--	--		480 U	500 U	1400 U	490 U	480 U	500 U	480 U	560 U	480 U	520 U	960 U
4-Bromophenyl phenyl ether	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4-Chloro-3-methylphenol	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4-Chloroaniline	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4-Chlorophenyl phenyl ether	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4-Nitroaniline	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
4-Nitrophenol	--	--	--		260 U	270 U	760 U	260 U	260 U	270 U	260 U	300 U	260 U	280 U	520 U
Acenaphthene	20000	100000	98000		360	150 U	110 J	150 U	280	230	83 J	170 U	190	160 U	870
Acenaphthylene	100000	100000	107000		430	150 U	540	150 U	1700	930	990	170 U	390	160 U	1600
Acetophenone	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Anthracene	100000	100000	1000000		1100	110 U	520	110 U	1600	2200	740	130 U	640	120 U	3800
Benzo[a]anthracene	1000	1000	1000		**3000**	110 U	**1800**	110 U	**6900**	**1800**	**3100**	130 U	**1900**	120 U	**9800**
Benzo[a]pyrene	1000	1000	22000		**2900**	150 U	**1900**	150 U	**6100**	**1100**	**2700**	170 U	**1800**	160 U	**7900**
Benzo[b]fluoranthene	1000	1000	1700		**4000**	110 U	**2300**	38 J	**7200**	**1300**	**3700**	130 U	**2400**	120 U	**10000**
Benzo[g,h,i]perylene	100000	100000	1000000		2000	150 U	1400	150 U	3600	450	1800	170 U	1300	160 U	5000
Benzo[k]fluoranthene	800	3900	1700		**1400**	110 U	**1000**	110 U	**2500**	480	**1300**	130 U	**870**	120 U	**3700**
Benzoic Acid	--	--	--		600 U	620 U	1800 U	600 U	600 U	620 U	600 U	700 U	600 U	640 U	1200 U
Benzyl Alcohol	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Bis(2-chloroethoxy)methane	--	--	--		200 U	200 U	580 U	200 U	200 U	210 U	200 U	230 U	200 U	210 U	400 U
Bis(2-chloroethyl) ether	--	--	--		170 U	170 U	490 U	170 U	170 U	170 U	160 U	190 U	170 U	180 U	330 U
Bis(2-ethylhexyl) phthalate	--	--	--		79 J	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	120 J	370 U
Butylbenzyl phthalate	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07	MW-FN-08
				Sample Date:	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013	12/11/2013	12/3/2013	12/11/2013	12/2/2013	12/12/2013	12/2/2013
				Sample Depth (ft bls):	0-2	10-12	0-2	13-15	0-2	11-13	0-2	21-23	0-2	7-9	0-2
Carbazole	--	--	--		420	190 U	540 U	190 U	540	400	180	220 U	260	200 U	1200
Chrysene	1000	3900	1000		**3500**	110 U	**2000**	110 U	**6500**	**1400**	**3000**	130 U	**2100**	120 U	**9500**
Dibenzo[a,h]anthracene	330	330	1000000		**550**	110 U	**340**	110 U	**1300**	190	**670**	130 U	**380**	120 U	**1400**
Dibenzofuran	7000	59000	210000		280	190 U	540 U	190 U	310	980	120 J	220 U	150 J	200 U	780
Diethyl phthalate	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Dimethyl phthalate	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Di-n-butyl phthalate	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Di-n-octyl phthalate	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Fluoranthene	100000	100000	1000000		6500	51 J	3200	59 J	9000 E	3100	4200	130 U	3800	41 J	17000
Fluorene	30000	100000	386000		330	190 U	540 U	190 U	500	1700	180	220 U	240	200 U	1100
Hexachlorobenzene	330	1200	3200		110 U	110 U	320 U	110 U	110 U	120 U	110 U	130 U	110 U	120 U	220 U
Hexachlorobutadiene	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Hexachlorocyclopentadiene	--	--	--		540 U	550 U	1600 U	540 U	530 U	550 U	530 U	620 U	530 U	570 U	1100 U
Hexachloroethane	--	--	--		150 U	150 U	430 U	150 U	150 U	150 U	150 U	170 U	150 U	160 U	300 U
Indeno[1,2,3-cd]pyrene	500	500	8200		**2200**	150 U	**1400**	150 U	**4300**	**520**	**2000**	170 U	**1400**	160 U	**5700**
Isophorone	--	--	--		170 U	170 U	490 U	170 U	170 U	170 U	160 U	190 U	170 U	180 U	330 U
Naphthalene	12000	100000	12000		380	190 U	540 U	190 U	400	680	260	220 U	200	200 U	500
Nitrobenzene	--	--	--		170 U	170 U	490 U	170 U	170 U	170 U	160 U	190 U	170 U	180 U	330 U
n-Nitrosodi-n-propylamine	--	--	--		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
n-Nitrosodiphenylamine	--	--	--		150 U	150 U	430 U	150 U	150 U	150 U	150 U	170 U	150 U	160 U	300 U
Pentachlorophenol	800	6700	800		150 U	150 U	430 U	150 U	150 U	150 U	150 U	170 U	150 U	160 U	300 U
Phenanthrene	100000	100000	1000000		4600	44 J	1800	110 U	4900	4900	1700	130 U	2300	120 U	11000
Phenol	330	100000	330		190 U	190 U	540 U	190 U	190 U	190 U	180 U	220 U	180 U	200 U	370 U
Pyrene	100000	100000	1000000		5900	50 J	3100	57 J	8000 E	2600	3900	130 U	3200	40 J	14000

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02	SB-FN-03	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05	SB-FN-05	DUP-SB-FN-05
				Sample Date:	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/2/2013	12/19/2013	12/19/2013
				Sample Depth (ft bls):	17-19	0-2	13-15	0-2	12.5-14.5	0-2	7-9	0-2	7-9	0-2	13-15	13-15
1,1'-Biphenyl	--	--	--		930 U	470 U	470 U	430 U	460 U	1700 U	460 U	400 U	400 U	420 U	410 U	420 U
1,2,4,5-Tetrachlorobenzene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	1100	100000	1100		410 U	**1500**	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	2400	49000	2400		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	1800	13000	1800		410 U	84 J	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2,2'-oxybis (1-chloropropane)	--	--	--		490 U	250 U	250 U	230 U	240 U	910 U	240 U	210 U	210 U	220 U	220 U	220 U
2,4,5-Trichlorophenol	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2,4,6-Trichlorophenol	--	--	--		240 U	120 U	120 U	110 U	120 U	450 U	120 U	100 U	110 U	110 U	110 U	110 U
2,4-Dichlorophenol	--	--	--		360 U	180 U	180 U	170 U	180 U	680 U	180 U	160 U	160 U	160 U	160 U	160 U
2,4-Dimethylphenol	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2,4-Dinitrophenol	--	--	--		2000 U	990 U	990 U	900 U	980 U	3600 U	980 U	840 U	850 U	880 U	870 U	870 U
2,4-Dinitrotoluene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2,6-Dinitrotoluene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2-Chloronaphthalene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2-Chlorophenol	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2-Methylnaphthalene	--	--	--		200 J	390	250 U	76 J	240 U	340 J	240 U	210 U	210 U	160 J	220 U	220 U
2-Methylphenol	330	100000	330		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2-Nitroaniline	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
2-Nitrophenol	--	--	--		880 U	440 U	440 U	410 U	440 U	1600 U	440 U	380 U	380 U	390 U	390 U	390 U
3&4-Methylphenol	330	100000	330		580 U	300 U	300 U	270 U	290 U	1100 U	290 U	250 U	250 U	69 J	260 U	260 U
3,3'-Dichlorobenzidine	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
3-Nitroaniline	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4,6-Dinitro-2-methylphenol	--	--	--		1000 U	530 U	530 U	490 U	530 U	2000 U	530 U	460 U	460 U	470 U	470 U	470 U
4-Bromophenyl phenyl ether	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4-Chloro-3-methylphenol	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4-Chloroaniline	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4-Chlorophenyl phenyl ether	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4-Nitroaniline	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
4-Nitrophenol	--	--	--		570 U	290 U	290 U	260 U	280 U	1100 U	280 U	250 U	250 U	260 U	250 U	250 U
Acenaphthene	20000	100000	98000		320 U	160 U	160 U	130 J	160 U	580 J	160 U	140 U	140 U	410	140 U	140 U
Acenaphthylene	100000	100000	107000		350	160 U	160 U	240	160 U	600	74 J	220	140 U	820	140 U	140 U
Acetophenone	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Anthracene	100000	100000	1000000		1100	50 J	120 U	500	120 U	1700	78 J	220	110 U	1400	110 U	110 U
Benzo[a]anthracene	1000	1000	1000		**1400**	150	70 J	**1500**	120 U	**4800**	390	**1100**	110 U	**4000**	110 U	110 U
Benzo[a]pyrene	1000	1000	22000		**1700**	130 J	59 J	**1300**	160 U	**4500**	360	**2800**	140 U	**3500**	140 U	140 U
Benzo[b]fluoranthene	1000	1000	1700		**1900**	190	69 J	**1800**	120 U	**6100**	510	**3600**	40 J	**4300**	110 U	110 U
Benzo[g,h,i]perylene	100000	100000	1000000		770	89 J	160 U	890	160 U	3100	280	9800	79 J	2400	140 U	140 U
Benzo[k]fluoranthene	800	3900	1700		570	69 J	120 U	690	120 U	**2400**	190	**1200**	110 U	**1600**	110 U	110 U
Benzoic Acid	--	--	--		1300 U	670 U	670 U	610 U	660 U	2400 U	660 U	290 J	570 U	590 U	580 U	590 U
Benzyl Alcohol	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Bis(2-chloroethoxy)methane	--	--	--		440 U	220 U	220 U	200 U	220 U	820 U	220 U	190 U	190 U	200 U	200 U	200 U
Bis(2-chloroethyl) ether	--	--	--		360 U	180 U	180 U	170 U	180 U	680 U	180 U	160 U	160 U	160 U	160 U	160 U
Bis(2-ethylhexyl) phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	920	1000	180 U	180 U	180 U	180 U	180 U
Butylbenzyl phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	220 J	89 J	180 U	180 U	180 U	180 U	180 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02	SB-FN-03	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05	SB-FN-05	DUP-SB-FN-05
				Sample Date:	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/2/2013	12/19/2013	12/19/2013
				Sample Depth (ft bls):	17-19	0-2	13-15	0-2	12.5-14.5	0-2	7-9	0-2	7-9	0-2	13-15	13-15
Carbazole	--	--	--		410 U	200 U	200 U	160 J	200 U	710 J	200 U	180 U	180 U	530	180 U	180 U
Chrysene	1000	3900	1000		**1200**	200	65 J	**1600**	43 J	**5200**	550	**1500**	110 U	**3900**	110 U	110 U
Dibenzo[a,h]anthracene	330	330	1000000		**490**	120 U	120 U	230	120 U	**780**	99 J	**520**	110 U	**720**	110 U	110 U
Dibenzofuran	7000	59000	210000		410 U	200 U	200 U	110 J	200 U	490 J	200 U	180 U	180 U	290	180 U	180 U
Diethyl phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Dimethyl phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	1000	200 U	180 U	180 U	180 U	180 U	180 U
Di-n-butyl phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Di-n-octyl phthalate	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Fluoranthene	100000	100000	1000000		770	300	150	3300	50 J	12000	550	2100	110 U	6500	110 U	110 U
Fluorene	30000	100000	386000		410 U	200 U	200 U	150 J	200 U	520 J	200 U	180 U	180 U	510	180 U	180 U
Hexachlorobenzene	330	1200	3200		240 U	120 U	120 U	110 U	120 U	450 U	120 U	100 U	110 U	110 U	110 U	110 U
Hexachlorobutadiene	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	--	--	--		1200 U	590 U	590 U	540 U	580 U	2200 U	580 U	500 U	510 U	520 U	520 U	520 U
Hexachloroethane	--	--	--		320 U	160 U	160 U	150 U	160 U	600 U	160 U	140 U	140 U	140 U	140 U	140 U
Indeno[1,2,3-cd]pyrene	500	500	8200		**800**	82 J	160 U	**920**	160 U	**3200**	280	**5800**	58 J	**2600**	140 U	140 U
Isophorone	--	--	--		360 U	180 U	180 U	170 U	180 U	680 U	180 U	160 U	160 U	160 U	160 U	160 U
Naphthalene	12000	100000	12000		250 J	150 J	200 U	86 J	200 U	740 J	75 J	210	180 U	290	180 U	180 U
Nitrobenzene	--	--	--		360 U	180 U	180 U	170 U	180 U	680 U	180 U	160 U	160 U	160 U	160 U	160 U
n-Nitrosodi-n-propylamine	--	--	--		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
n-Nitrosodiphenylamine	--	--	--		320 U	160 U	160 U	150 U	160 U	600 U	160 U	140 U	140 U	140 U	140 U	140 U
Pentachlorophenol	800	6700	800		320 U	160 U	160 U	150 U	160 U	600 U	160 U	140 U	140 U	140 U	140 U	140 U
Phenanthrene	100000	100000	1000000		1300	370	120	2700	120 U	7400	450	790	110 U	4500	110 U	110 U
Phenol	330	100000	330		410 U	200 U	200 U	190 U	200 U	760 U	200 U	180 U	180 U	180 U	180 U	180 U
Pyrene	100000	100000	1000000		8000	250	140	2800	46 J	9800	540	2700	110 U	5800	110 U	110 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08	SB-FN-08	MW-FS-01	MW-FS-01	MW-FS-02	MW-FS-02
				Sample Date:	12/2/2013	12/19/2013	12/2/2013	12/19/2013	12/19/2013	11/27/2013	12/19/2013	11/27/2013	12/5/2013	11/26/2013	12/2/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	15-17	15-17	0-2	6-8	0-2	13-14	0-2	8-10
1,1'-Biphenyl	--	--	--		420 U	460 U	420 U	52000 J	33000 U	840 U	420 U	810 U	430 U	830 U	420 U
1,2,4,5-Tetrachlorobenzene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
1,2,4-Trichlorobenzene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
1,2-Dichlorobenzene	1100	100000	1100		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
1,3-Dichlorobenzene	2400	49000	2400		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
1,4-Dichlorobenzene	1800	13000	1800		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2,2'-oxybis (1-chloropropane)	--	--	--		220 U	240 U	220 U	130000 U	17000 U	440 U	220 U	420 U	230 U	440 U	220 U
2,4,5-Trichlorophenol	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2,4,6-Trichlorophenol	--	--	--		110 U	120 U	110 U	65000 U	8700 U	220 U	110 U	210 U	110 U	220 U	110 U
2,4-Dichlorophenol	--	--	--		160 U	180 U	170 U	98000 U	13000 U	330 U	160 U	320 U	170 U	330 U	170 U
2,4-Dimethylphenol	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2,4-Dinitrophenol	--	--	--		880 U	960 U	890 U	520000 U	70000 U	1800 U	880 U	1700 U	910 U	1700 U	890 U
2,4-Dinitrotoluene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2,6-Dinitrotoluene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2-Chloronaphthalene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2-Chlorophenol	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2-Methylnaphthalene	--	--	--		93 J	68 J	220 U	1200000	89000	160 J	110 J	420 U	300	440 U	220 U
2-Methylphenol	330	100000	330		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2-Nitroaniline	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
2-Nitrophenol	--	--	--		400 U	430 U	400 U	230000 U	31000 U	800 U	400 U	760 U	410 U	780 U	400 U
3&4-Methylphenol	330	100000	330		260 U	290 U	270 U	160000 U	21000 U	530 U	63 J	510 U	270 U	520 U	270 U
3,3'-Dichlorobenzidine	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
3-Nitroaniline	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4,6-Dinitro-2-methylphenol	--	--	--		480 U	520 U	480 U	280000 U	38000 U	960 U	480 U	920 U	490 U	940 U	480 U
4-Bromophenyl phenyl ether	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4-Chloro-3-methylphenol	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4-Chloroaniline	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4-Chlorophenyl phenyl ether	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4-Nitroaniline	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
4-Nitrophenol	--	--	--		260 U	280 U	260 U	150000 U	20000 U	520 U	260 U	500 U	260 U	510 U	260 U
Acenaphthene	20000	100000	98000		260	160 U	53 J	**420000**	**34000**	140 J	90 J	210 J	130 J	270 J	150 U
Acenaphthylene	100000	100000	107000		380	46 J	200	72000 J	5400 J	1300	700	220 J	150 U	210 J	150 U
Acetophenone	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Anthracene	100000	100000	1000000		760	68 J	260	**410000**	38000	1100	640	740	60 J	660	110 U
Benzo[a]anthracene	1000	1000	1000		**2300**	340	840	**230000**	**22000**	**5100**	**2800**	**2100**	110 U	**1900**	63 J
Benzo[a]pyrene	1000	1000	22000		**2200**	190	720	**94000**	**9500 J**	**4400**	**2400**	**1800**	150 U	**1900**	52 J
Benzo[b]fluoranthene	1000	1000	1700		**2700**	260	1000	**88000**	**8800**	**5400**	**3300**	**2200**	110 U	**2400**	71 J
Benzo[g,h,i]perylene	100000	100000	1000000		1600	93 J	520	30000 J	3200 J	2700	1400	1100	150 U	1200	150 U
Benzo[k]fluoranthene	800	3900	1700		**1000**	110 J	340	**28000 J**	**2800 J**	**2300**	790	780	110 U	**920**	110 U
Benzoic Acid	--	--	--		590 U	650 U	600 U	350000 U	47000 U	1200 U	590 U	1100 U	610 U	1200 U	600 U
Benzyl Alcohol	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Bis(2-chloroethoxy)methane	--	--	--		200 U	220 U	200 U	120000 U	16000 U	400 U	200 U	380 U	200 U	390 U	200 U
Bis(2-chloroethyl) ether	--	--	--		160 U	180 U	170 U	98000 U	13000 U	330 U	160 U	320 U	170 U	330 U	170 U
Bis(2-ethylhexyl) phthalate	--	--	--		180 U	200 U	170 J	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Butylbenzyl phthalate	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08	SB-FN-08	MW-FS-01	MW-FS-01	MW-FS-02	MW-FS-02
				Sample Date:	12/2/2013	12/19/2013	12/2/2013	12/19/2013	12/19/2013	11/27/2013	12/19/2013	11/27/2013	12/5/2013	11/26/2013	12/2/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	15-17	15-17	0-2	6-8	0-2	13-14	0-2	8-10
Carbazole	--	--	--		290	53 J	110 J	110000 U	14000 U	240 J	190	250 J	190 U	280 J	180 U
Chrysene	1000	3900	1000		**2200**	340	910	**360000**	**34000**	**4700**	**2300**	**2100**	39 J	**2000**	66 J
Dibenzo[a,h]anthracene	330	330	1000000		**450**	120 U	140	**25000 J**	8700 U	**950**	**570**	300	110 U	310	110 U
Dibenzofuran	7000	59000	210000		150 J	200 U	180 U	110000 U	14000 U	170 J	110 J	170 J	190 U	160 J	180 U
Diethyl phthalate	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Dimethyl phthalate	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Di-n-butyl phthalate	--	--	--		180 U	200 U	330	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Di-n-octyl phthalate	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Fluoranthene	100000	100000	1000000		4100	410	1600	**410000**	41000	6500	4000	4100	120	4100	96 J
Fluorene	30000	100000	386000		270	200 U	81 J	**190000**	16000	290 J	140 J	260 J	65 J	280 J	180 U
Hexachlorobenzene	330	1200	3200		110 U	120 U	110 U	65000 U	8700 U	220 U	110 U	210 U	110 U	220 U	110 U
Hexachlorobutadiene	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Hexachlorocyclopentadiene	--	--	--		530 U	570 U	530 U	310000 U	42000 U	1000 U	520 U	1000 U	540 U	1000 U	530 U
Hexachloroethane	--	--	--		150 U	160 U	150 U	87000 U	12000 U	300 U	150 U	280 U	150 U	290 U	150 U
Indeno[1,2,3-cd]pyrene	500	500	8200		**1700**	96 J	**530**	**30000 J**	**3300 J**	**3000**	**1400**	**1200**	150 U	**1300**	150 U
Isophorone	--	--	--		160 U	180 U	170 U	98000 U	13000 U	330 U	160 U	320 U	170 U	330 U	170 U
Naphthalene	12000	100000	12000		190	98 J	180 U	**750000**	**55000**	340 J	230	300 J	260	200 J	180 U
Nitrobenzene	--	--	--		160 U	180 U	170 U	98000 U	13000 U	330 U	160 U	320 U	170 U	330 U	170 U
n-Nitrosodi-n-propylamine	--	--	--		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
n-Nitrosodiphenylamine	--	--	--		150 U	160 U	150 U	87000 U	12000 U	300 U	150 U	280 U	150 U	290 U	150 U
Pentachlorophenol	800	6700	800		150 U	160 U	150 U	87000 U	12000 U	300 U	150 U	280 U	150 U	290 U	150 U
Phenanthrene	100000	100000	1000000		2400	310	1000	**4400000 E**	**410000**	2800	2100	2900	550	2600	57 J
Phenol	330	100000	330		180 U	200 U	180 U	110000 U	14000 U	370 U	180 U	350 U	190 U	360 U	180 U
Pyrene	100000	100000	1000000		3500	380	1400	**470000**	46000	6000	3700	3700	100 J	3700	94 J

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FS-03	MW-FS-03	MW-FS-04	MW-FS-04	SB-FS-01	SB-FS-01	SB-FS-02	SB-FS-03	SB-FS-03	MW-ZA-01	MW-ZA-01
				Sample Date:	11/26/2013	12/3/2013	11/26/2013	12/3/2013	11/27/2013	12/4/2013	12/4/2013	11/26/2013	12/3/2013	12/4/2013	12/10/2013
				Sample Depth (ft bls):	0-2	8.5-10.5	0-2	7-8	0-2	10-11	0-2	0-2	8-10	0-2	8-10
1,1'-Biphenyl	--	--	--		390 U	8900 U	400 U	460 U	400 U	440 U	430 U	410 U	16000 U	2000 U	870 U
1,2,4,5-Tetrachlorobenzene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
1,2,4-Trichlorobenzene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
1,2-Dichlorobenzene	1100	100000	1100		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
1,3-Dichlorobenzene	2400	49000	2400		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
1,4-Dichlorobenzene	1800	13000	1800		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2,2'-oxybis (1-chloropropane)	--	--	--		210 U	4700 U	210 U	240 U	210 U	230 U	220 U	210 U	8500 U	1100 U	460 U
2,4,5-Trichlorophenol	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2,4,6-Trichlorophenol	--	--	--		100 U	2300 U	110 U	120 U	100 U	120 U	110 U	110 U	4300 U	530 U	230 U
2,4-Dichlorophenol	--	--	--		160 U	3500 U	160 U	180 U	160 U	170 U	170 U	160 U	6400 U	800 U	340 U
2,4-Dimethylphenol	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2,4-Dinitrophenol	--	--	--		830 U	19000 U	850 U	960 U	840 U	920 U	900 U	850 U	34000 U	4300 U	1800 U
2,4-Dinitrotoluene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2,6-Dinitrotoluene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2-Chloronaphthalene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2-Chlorophenol	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2-Methylnaphthalene	--	--	--		210 U	58000	210 U	240 U	210 U	230 U	63 J	57 J	12000	1100 U	270 J
2-Methylphenol	330	100000	330		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2-Nitroaniline	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
2-Nitrophenol	--	--	--		370 U	8400 U	380 U	430 U	380 U	410 U	400 U	380 U	15000 U	1900 U	820 U
3&4-Methylphenol	330	100000	330		250 U	5600 U	260 U	290 U	250 U	280 U	270 U	260 U	10000 U	1300 U	550 U
3,3'-Dichlorobenzidine	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
3-Nitroaniline	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4,6-Dinitro-2-methylphenol	--	--	--		450 U	10000 U	460 U	520 U	450 U	500 U	490 U	460 U	18000 U	2300 U	990 U
4-Bromophenyl phenyl ether	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4-Chloro-3-methylphenol	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4-Chloroaniline	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4-Chlorophenyl phenyl ether	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4-Nitroaniline	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
4-Nitrophenol	--	--	--		240 U	5500 U	250 U	280 U	240 U	270 U	260 U	250 U	9900 U	1200 U	530 U
Acenaphthene	20000	100000	98000		140 U	5900	140 U	160 U	43 J	150 U	160	140 U	4400 J	710 U	110 J
Acenaphthylene	100000	100000	107000		44 J	3100 U	72 J	160 U	140 U	150 U	170	1800	5700 U	710 U	120 J
Acetophenone	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Anthracene	100000	100000	1000000		46 J	3500	55 J	120 U	52 J	120 U	580	1100	2000 J	530 U	530
Benzo[a]anthracene	1000	1000	1000		140	790 J	240	120 U	140	120 U	**1800**	**6400**	4300 U	530 U	**1300**
Benzo[a]pyrene	1000	1000	22000		150	3100 U	230	160 U	110 J	150 U	**1600**	**6600**	5700 U	710 U	**2000**
Benzo[b]fluoranthene	1000	1000	1700		180	2300 U	290	120 U	100 U	120 U	**2100**	**7000**	4300 U	530 U	**1900**
Benzo[g,h,i]perylene	100000	100000	1000000		110 J	3100 U	160	160 U	73 J	150 U	1000	5600	5700 U	710 U	910
Benzo[k]fluoranthene	800	3900	1700		78 J	2300 U	98 J	120 U	100 U	120 U	750	**5300**	4300 U	530 U	600
Benzoic Acid	--	--	--		560 U	13000 U	570 U	650 U	560 U	620 U	610 U	580 U	23000 U	2900 U	1200 U
Benzyl Alcohol	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Bis(2-chloroethoxy)methane	--	--	--		190 U	4200 U	190 U	220 U	190 U	210 U	200 U	190 U	7700 U	960 U	410 U
Bis(2-chloroethyl) ether	--	--	--		160 U	3500 U	160 U	180 U	160 U	170 U	170 U	160 U	6400 U	800 U	340 U
Bis(2-ethylhexyl) phthalate	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Butylbenzyl phthalate	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FS-03	MW-FS-03	MW-FS-04	MW-FS-04	SB-FS-01	SB-FS-01	SB-FS-02	SB-FS-03	SB-FS-03	MW-ZA-01	MW-ZA-01
				Sample Date:	11/26/2013	12/3/2013	11/26/2013	12/3/2013	11/27/2013	12/4/2013	12/4/2013	11/26/2013	12/3/2013	12/4/2013	12/10/2013
				Sample Depth (ft bls):	0-2	8.5-10.5	0-2	7-8	0-2	10-11	0-2	0-2	8-10	0-2	8-10
Carbazole	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	220	190	7100 U	890 U	380 U
Chrysene	1000	3900	1000		160	990 J	280	120 U	100 U	120 U	**1800**	**6100**	4300 U	530 U	**1900**
Dibenzo[a,h]anthracene	330	330	1000000		100 U	2300 U	49 J	120 U	100 U	120 U	240	**2200**	4300 U	530 U	**610**
Dibenzofuran	7000	59000	210000		170 U	3900 U	180 U	200 U	170 U	190 U	110 J	89 J	7100 U	890 U	380 U
Diethyl phthalate	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Dimethyl phthalate	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Di-n-butyl phthalate	--	--	--		37 J	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Di-n-octyl phthalate	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Fluoranthene	100000	100000	1000000		290	2300 U	320	120 U	340	120 U	3600	8400 E	4300 U	530 U	1100
Fluorene	30000	100000	386000		170 U	6800	180 U	200 U	170 U	190 U	180 J	180 U	6600 J	890 U	380 U
Hexachlorobenzene	330	1200	3200		100 U	2300 U	110 U	120 U	100 U	120 U	110 U	110 U	4300 U	530 U	230 U
Hexachlorobutadiene	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Hexachlorocyclopentadiene	--	--	--		490 U	11000 U	510 U	580 U	500 U	550 U	540 U	510 U	20000 U	2600 U	1100 U
Hexachloroethane	--	--	--		140 U	3100 U	140 U	160 U	140 U	150 U	150 U	140 U	5700 U	710 U	300 U
Indeno[1,2,3-cd]pyrene	500	500	8200		120 J	3100 U	150	160 U	140 U	150 U	**1000**	**6200**	5700 U	710 U	**990**
Isophorone	--	--	--		160 U	3500 U	160 U	180 U	160 U	170 U	170 U	160 U	6400 U	800 U	340 U
Naphthalene	12000	100000	12000		170 U	3900 U	180 U	200 U	170 U	190 U	90 J	200	7100 U	890 U	210 J
Nitrobenzene	--	--	--		160 U	3500 U	160 U	180 U	160 U	170 U	170 U	160 U	6400 U	800 U	340 U
n-Nitrosodi-n-propylamine	--	--	--		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
n-Nitrosodiphenylamine	--	--	--		140 U	3100 U	140 U	160 U	140 U	150 U	150 U	140 U	5700 U	710 U	300 U
Pentachlorophenol	800	6700	800		140 U	3100 U	140 U	160 U	140 U	150 U	150 U	140 U	5700 U	710 U	300 U
Phenanthrene	100000	100000	1000000		160	24000	240	120 U	220	120 U	2600	1500	20000	530 U	1000
Phenol	330	100000	330		170 U	3900 U	180 U	200 U	170 U	190 U	190 U	180 U	7100 U	890 U	380 U
Pyrene	100000	100000	1000000		270	3600	390	120 U	100 U	120 U	3300	9900	2700 J	530 U	3200

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-ZA-02	MW-ZA-02	MW-ZA-03	MW-ZA-03	MW-ZA-03	SB-ZA-04	MW-ZA-04	SB-ZA-02	SB-ZA-02	SB-ZA-03	SB-ZA-03
				Sample Date:	12/4/2013	12/6/2013	12/10/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/10/2013	12/4/2013	12/4/2013
				Sample Depth (ft bls):	0-2	9-11	7-9	0-2	4-5	0-2	9-10	0-2	10.5-12.5	0-2	4-5
1,1'-Biphenyl	--	--	--		2100 U	7700 U	450 U	410 U	39000 U	790 U	440 U	450 J	430 U	4100 U	20000
1,2,4,5-Tetrachlorobenzene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
1,2,4-Trichlorobenzene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
1,2-Dichlorobenzene	1100	100000	1100		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
1,3-Dichlorobenzene	2400	49000	2400		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
1,4-Dichlorobenzene	1800	13000	1800		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2,2'-oxybis (1-chloropropane)	--	--	--		1100 U	4000 U	240 U	220 U	20000 U	420 U	230 U	1100 U	220 U	2200 U	6500 U
2,4,5-Trichlorophenol	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2,4,6-Trichlorophenol	--	--	--		550 U	2000 U	120 U	110 U	10000 U	210 U	120 U	550 U	110 U	1100 U	3300 U
2,4-Dichlorophenol	--	--	--		820 U	3000 U	180 U	160 U	15000 U	310 U	170 U	830 U	170 U	1600 U	4900 U
2,4-Dimethylphenol	--	--	--		910 U	3400 U	93 J	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2,4-Dinitrophenol	--	--	--		4400 U	16000 U	950 U	870 U	82000 U	1700 U	920 U	4400 U	900 U	8700 U	26000 U
2,4-Dinitrotoluene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2,6-Dinitrotoluene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2-Chloronaphthalene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2-Chlorophenol	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2-Methylnaphthalene	--	--	--		1100 U	17000	240 U	220 U	9400 J	420 U	230 U	1400	220 U	2200 U	52000
2-Methylphenol	330	100000	330		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2-Nitroaniline	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
2-Nitrophenol	--	--	--		2000 U	7300 U	430 U	390 U	37000 U	750 U	420 U	2000 U	400 U	3900 U	12000 U
3&4-Methylphenol	330	100000	330		1300 U	4900 U	89 J	260 U	24000 U	500 U	280 U	1300 U	270 U	2600 U	**3000 J**
3,3'-Dichlorobenzidine	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
3-Nitroaniline	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4,6-Dinitro-2-methylphenol	--	--	--		2400 U	8800 U	510 U	470 U	44000 U	900 U	500 U	2400 U	490 U	4700 U	14000 U
4-Bromophenyl phenyl ether	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4-Chloro-3-methylphenol	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4-Chloroaniline	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4-Chlorophenyl phenyl ether	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4-Nitroaniline	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
4-Nitrophenol	--	--	--		1300 U	4700 U	280 U	250 U	24000 U	490 U	270 U	1300 U	260 U	2500 U	7600 U
Acenaphthene	20000	100000	98000		730 U	**40000**	160 U	140 U	14000 U	280 U	150 U	3000	150 U	1400 U	**110000**
Acenaphthylene	100000	100000	107000		730 U	2700 U	110 J	190	14000 U	280 U	150 U	2000	150 U	1400 U	50000
Acetophenone	--	--	--		910 U	3400 U	67 J	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Anthracene	100000	100000	1000000		550 U	38000	94 J	190	3600 J	210 U	120 U	9100	110 U	1100 U	**170000**
Benzo[a]anthracene	1000	1000	1000		370 J	**10000**	120 U	840	10000 U	140 J	120 U	**17000**	110 U	440 J	**320000**
Benzo[a]pyrene	1000	1000	22000		340 J	**4600**	160 U	830	14000 U	130 J	150 U	**15000**	150 U	1400 U	**290000**
Benzo[b]fluoranthene	1000	1000	1700		440 J	**4000**	120 U	990	10000 U	180 J	120 U	**18000**	110 U	520 J	**330000 E**
Benzo[g,h,i]perylene	100000	100000	1000000		240 J	1200 J	160 U	500	14000 U	110 J	150 U	9300	150 U	1400 U	180000
Benzo[k]fluoranthene	800	3900	1700		550 U	**1400 J**	120 U	410	10000 U	210 U	120 U	**6600**	110 U	1100 U	**130000**
Benzoic Acid	--	--	--		3000 U	11000 U	640 U	590 U	55000 U	1100 U	620 U	3000 U	610 U	5900 U	18000 U
Benzyl Alcohol	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Bis(2-chloroethoxy)methane	--	--	--		980 U	3600 U	210 U	200 U	18000 U	380 U	210 U	990 U	200 U	2000 U	5900 U
Bis(2-chloroethyl) ether	--	--	--		820 U	3000 U	180 U	160 U	15000 U	310 U	170 U	830 U	170 U	1600 U	4900 U
Bis(2-ethylhexyl) phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Butylbenzyl phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-ZA-02	MW-ZA-02	MW-ZA-03	MW-ZA-03	MW-ZA-03	SB-ZA-04	MW-ZA-04	SB-ZA-02	SB-ZA-02	SB-ZA-03	SB-ZA-03
				Sample Date:	12/4/2013	12/6/2013	12/10/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/10/2013	12/4/2013	12/4/2013
				Sample Depth (ft bls):	0-2	9-11	7-9	0-2	4-5	0-2	9-10	0-2	10.5-12.5	0-2	4-5
Carbazole	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	2600	190 U	1800 U	79000
Chrysene	1000	3900	1000		390 J	**14000**	120 U	900	**4400 J**	160 J	120 U	**17000**	110 U	510 J	**290000**
Dibenzo[a,h]anthracene	330	330	1000000		550 U	**940 J**	120 U	120	10000 U	210 U	120 U	**2700**	110 U	1100 U	**37000**
Dibenzofuran	7000	59000	210000		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	2300	190 U	1800 U	**110000**
Diethyl phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Dimethyl phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Di-n-butyl phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Di-n-octyl phthalate	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Fluoranthene	100000	100000	1000000		530 J	25000	79 J	1500	10000 U	230	120 U	30000	110 U	770 J	**880000**
Fluorene	30000	100000	386000		910 U	20000	200 U	180 U	17000 U	350 U	190 U	3500	190 U	1800 U	**130000**
Hexachlorobenzene	330	1200	3200		550 U	2000 U	120 U	110 U	10000 U	210 U	120 U	550 U	110 U	1100 U	3300 U
Hexachlorobutadiene	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Hexachlorocyclopentadiene	--	--	--		2600 U	9700 U	570 U	520 U	49000 U	1000 U	550 U	2600 U	540 U	5200 U	16000 U
Hexachloroethane	--	--	--		730 U	2700 U	160 U	140 U	14000 U	280 U	150 U	740 U	150 U	1400 U	4400 U
Indeno[1,2,3-cd]pyrene	500	500	8200		250 J	**1500 J**	160 U	**530**	14000 U	93 J	150 U	**9700**	150 U	1400 U	**200000**
Isophorone	--	--	--		820 U	3000 U	180 U	160 U	15000 U	310 U	170 U	830 U	170 U	1600 U	4900 U
Naphthalene	12000	100000	12000		910 U	1200 J	200 U	110 J	17000 U	350 U	97 J	2600	190 U	1800 U	**110000**
Nitrobenzene	--	--	--		820 U	3000 U	180 U	160 U	15000 U	310 U	170 U	830 U	170 U	1600 U	4900 U
n-Nitrosodi-n-propylamine	--	--	--		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
n-Nitrosodiphenylamine	--	--	--		730 U	2700 U	160 U	140 U	14000 U	280 U	150 U	740 U	150 U	1400 U	4400 U
Pentachlorophenol	800	6700	800		730 U	2700 U	160 U	140 U	14000 U	280 U	150 U	740 U	150 U	1400 U	4400 U
Phenanthrene	100000	100000	1000000		300 J	**220000 E**	210	500	27000	150 J	110 J	31000	50 J	380 J	**990000**
Phenol	330	100000	330		910 U	3400 U	200 U	180 U	17000 U	350 U	190 U	920 U	190 U	1800 U	5400 U
Pyrene	100000	100000	1000000		530 J	32000	140	1400	5300 J	220	120 U	29000	110 U	840 J	**760000**

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
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DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-ZA-03 12/10/2013 5-6.5
1,1'-Biphenyl	--	--	--		190 J
1,2,4,5-Tetrachlorobenzene	--	--	--		170 U
1,2,4-Trichlorobenzene	--	--	--		170 U
1,2-Dichlorobenzene	1100	100000	1100		170 U
1,3-Dichlorobenzene	2400	49000	2400		170 U
1,4-Dichlorobenzene	1800	13000	1800		170 U
2,2'-oxybis (1-chloropropane)	--	--	--		210 U
2,4,5-Trichlorophenol	--	--	--		170 U
2,4,6-Trichlorophenol	--	--	--		100 U
2,4-Dichlorophenol	--	--	--		160 U
2,4-Dimethylphenol	--	--	--		170 U
2,4-Dinitrophenol	--	--	--		830 U
2,4-Dinitrotoluene	--	--	--		170 U
2,6-Dinitrotoluene	--	--	--		170 U
2-Chloronaphthalene	--	--	--		170 U
2-Chlorophenol	--	--	--		170 U
2-Methylnaphthalene	--	--	--		530
2-Methylphenol	330	100000	330		170 U
2-Nitroaniline	--	--	--		170 U
2-Nitrophenol	--	--	--		380 U
3&4-Methylphenol	330	100000	330		250 U
3,3'-Dichlorobenzidine	--	--	--		170 U
3-Nitroaniline	--	--	--		170 U
4,6-Dinitro-2-methylphenol	--	--	--		450 U
4-Bromophenyl phenyl ether	--	--	--		170 U
4-Chloro-3-methylphenol	--	--	--		170 U
4-Chloroaniline	--	--	--		170 U
4-Chlorophenyl phenyl ether	--	--	--		170 U
4-Nitroaniline	--	--	--		170 U
4-Nitrophenol	--	--	--		240 U
Acenaphthene	20000	100000	98000		1200
Acenaphthylene	100000	100000	107000		770
Acetophenone	--	--	--		170 U
Anthracene	100000	100000	1000000		2800
Benzo[a]anthracene	1000	1000	1000		**3600**
Benzo[a]pyrene	1000	1000	22000		**3100**
Benzo[b]fluoranthene	1000	1000	1700		**3600**
Benzo[g,h,i]perylene	100000	100000	1000000		2200
Benzo[k]fluoranthene	800	3900	1700		**1300**
Benzoic Acid	--	--	--		560 U
Benzyl Alcohol	--	--	--		170 U
Bis(2-chloroethoxy)methane	--	--	--		190 U
Bis(2-chloroethyl) ether	--	--	--		160 U
Bis(2-ethylhexyl) phthalate	--	--	--		170 U
Butylbenzyl phthalate	--	--	--		170 U

Table 3. Summary of Semivolatile Organic Compounds in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-ZA-03
				Sample Date:	12/10/2013
				Sample Depth (ft bls):	5-6.5
Carbazole	--	--	--		860
Chrysene	1000	3900	1000		**3200**
Dibenzo[a,h]anthracene	330	330	1000000		**460**
Dibenzofuran	7000	59000	210000		1200
Diethyl phthalate	--	--	--		170 U
Dimethyl phthalate	--	--	--		170 U
Di-n-butyl phthalate	--	--	--		170 U
Di-n-octyl phthalate	--	--	--		170 U
Fluoranthene	100000	100000	1000000		8400 E
Fluorene	30000	100000	386000		1600
Hexachlorobenzene	330	1200	3200		100 U
Hexachlorobutadiene	--	--	--		170 U
Hexachlorocyclopentadiene	--	--	--		500 U
Hexachloroethane	--	--	--		140 U
Indeno[1,2,3-cd]pyrene	500	500	8200		**2400**
Isophorone	--	--	--		160 U
Naphthalene	12000	100000	12000		880
Nitrobenzene	--	--	--		160 U
n-Nitrosodi-n-propylamine	--	--	--		170 U
n-Nitrosodiphenylamine	--	--	--		140 U
Pentachlorophenol	800	6700	800		140 U
Phenanthrene	100000	100000	1000000		11000
Phenol	330	100000	330		170 U
Pyrene	100000	100000	1000000		9200

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-01 12/6/2013 0-2	MW-AE-01 12/18/2013 11-13	MW-AE-02 12/6/2013 0-2	MW-AE-02 12/13/2013 10-12	MW-AE-03 12/6/2013 0-2
Aluminum	--	--	--		8500	14000	6600	14000	2700
Antimony	--	--	--		4.3 U	6.2 U	4.2 U	4.8 U	4 U
Arsenic	13	16	16		2.8	11	3.5	1.6	3.6
Barium	350	400	820		66	81	51	94	16
Beryllium	7.2	72	47		0.32 J	0.48 J	0.29 J	0.12 J	0.09 J
Cadmium	2.5	4.3	7.5		0.45 J	0.86 J	0.84 U	0.43 J	0.8 U
Calcium	--	--	--		6000	4800	52000	1900	120000
Chromium, Hexavalent	1	110	19		0.87 U	1.3 U	0.87 U	1 U	0.83 U
Chromium, Trivalent	30	180	--		17	**35**	14	**54**	3.8
Chromium	30	180	--		17	**35**	14	**54**	3.8
Cobalt	--	--	--		5.6	12	5.1	12	4.3
Copper	50	270	1720		27	44	27	43	34
Cyanide	27	27	40		1 U	1.5 U	1 U	1.2 U	0.96 U
Iron	--	--	--		14000	26000	11000	20000	9800
Lead	63	400	450		**79**	**110**	**110**	5.7	14
Magnesium	--	--	--		3000	6800	34000	7000	7900
Manganese	1600	2000	2000		290	690	240	110	160
Mercury	0.18	0.81	0.73		0.06 J	**0.3**	**0.26**	0.09 U	0.07 U
Nickel	30	310	130		12	**31**	12	**36**	5.3
Potassium	--	--	--		800	3100	1000	3500	480
Selenium	3.9	180	4		0.52 J	2.5 U	1.7 U	1.9 U	1.6 U
Silver	2	180	8.3		0.86 U	1.2 U	0.84 U	0.95 U	0.8 U
Sodium	--	--	--		200	930	290	590	330
Thallium	--	--	--		1.7 U	2.5 U	1.7 U	1.9 U	1.6 U
Vanadium	--	--	--		23	43	22	46	18
Zinc	109	10000	2480		69	**140**	73	42	26

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-03 12/13/2013 17-19	MW-AE-04 12/5/2013 0-2	MW-AE-04 12/10/2013 12-14	MW-AE-05 12/6/2013 0-2	MW-AE-05 12/18/2013 18-20
Aluminum	--	--	--		7600	3500	5400	8300	5700
Antimony	--	--	--		4.7 U	1.2 J	4.7 U	1.3 J	5 U
Arsenic	13	16	16		2.2	13	1	5.3	0.95 J
Barium	350	400	820		59	140	50	69	47
Beryllium	7.2	72	47		0.26 J	0.17 J	0.27 J	0.36 J	0.22 J
Cadmium	2.5	4.3	7.5		0.32 J	1	0.22 J	0.6 J	0.29 J
Calcium	--	--	--		790	150000	610	22000	1300
Chromium, Hexavalent	1	110	19		0.99 U	0.95 U	0.97 U	0.93 U	0.25 J
Chromium, Trivalent	30	180	--		21	15	13	19	14
Chromium	30	180	--		21	15	13	19	14
Cobalt	--	--	--		6.8	4.4	3.4	6.4	4.4
Copper	50	270	1720		15	**60**	8.8	37	14
Cyanide	27	27	40		1.2 U	1.2 U	1.2 U	1.1 U	1.2 U
Iron	--	--	--		14000	15000	7500	12000	12000
Lead	63	400	450		9.1	**310**	6.2	**1200**	7
Magnesium	--	--	--		3200	6700	1900	9200	2400
Manganese	1600	2000	2000		75	180	47	350	82
Mercury	0.18	0.81	0.73		0.09 U	**0.67**	0.09 U	**0.35**	0.1 U
Nickel	30	310	130		16	13	14	13	16
Potassium	--	--	--		1400	610	800	1000	930
Selenium	3.9	180	4		1.9 U	0.87 J	1.9 U	0.52 J	2 U
Silver	2	180	8.3		0.95 U	0.33 J	0.94 U	0.9 U	1 U
Sodium	--	--	--		750	550	280	250	110 J
Thallium	--	--	--		1.9 U	1.8 U	1.9 U	1.8 U	2 U
Vanadium	--	--	--		22	18	11	26	14
Zinc	109	10000	2480		38	**240**	26	**110**	56

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-AE-01 12/6/2013 0-2	SB-AE-01 12/12/2013 7-9	SB-AE-02 12/5/2013 0-2	SB-AE-02 12/12/2013 13-15	SB-AE-03 12/6/2013 0-2	SB-AE-03 12/6/2013 2-3
Aluminum	--	--	--		6100	13000	8600	6200	9200	6500
Antimony	--	--	--		4.1 U	4.6 U	1 J	1.8 J	4.3 U	3 J
Arsenic	13	16	16		2.6	4.4	2.9	7.8	2.6	10
Barium	350	400	820		54	160	63	100	44	130
Beryllium	7.2	72	47		0.27 J	0.28 J	0.38 J	0.24 J	0.39 J	0.21 J
Cadmium	2.5	4.3	7.5		0.43 J	0.48 J	0.51 J	1.5	0.45 J	1.3
Calcium	--	--	--		15000	4600	7100	9300	26000	29000
Chromium, Hexavalent	1	110	19		0.86 U	0.96 U	0.88 U	0.56 J	0.88 U	0.91 U
Chromium, Trivalent	30	180	--		16	**65**	19	14	18	30
Chromium	30	180	--		16	**65**	19	14	18	30
Cobalt	--	--	--		5.4	9	5.9	3.8	6.3	6.6
Copper	50	270	1720		24	43	43	30	23	**75**
Cyanide	27	27	40		1 U	1.2 U	1.1 U	1.7 U	1 U	1.1 U
Iron	--	--	--		12000	19000	15000	14000	13000	15000
Lead	63	400	450		40	**100**	**200**	**13000**	**130**	**230**
Magnesium	--	--	--		3900	6600	3900	3300	13000	4600
Manganese	1600	2000	2000		260	330	270	150	350	190
Mercury	0.18	0.81	0.73		0.05 J	**0.5**	0.1	**0.28**	0.08 J	**1.8**
Nickel	30	310	130		13	**38**	12	11	12	26
Potassium	--	--	--		1000	4500	970	940	1000	1700
Selenium	3.9	180	4		0.33 J	1.8 U	0.59 J	0.96 J	1.7 U	1 J
Silver	2	180	8.3		0.82 U	0.92 U	0.85 U	0.56 J	0.87 U	0.2 J
Sodium	--	--	--		160	200	140 J	660	250	230
Thallium	--	--	--		1.6 U	1.8 U	1.7 U	2.8 U	1.7 U	1.8 U
Vanadium	--	--	--		26	33	29	16	25	41
Zinc	109	10000	2480		58	64	82	**2700**	61	**280**

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DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-04	SB-AE-04	MW-FN-01	MW-FN-01	MW-FN-02	MW-FN-02
				Sample Date:	12/6/2013	12/12/2013	12/4/2013	12/9/2013	12/3/2013	12/9/2013
				Sample Depth (ft bls):	0-2	5-7	0-2	10-12	0-2	13-15
Aluminum	--	--	--		10000	4900	3400	8400	3900	1900
Antimony	--	--	--		4.4 U	4.3 U	4.3 U	4.6 U	23 U	4.9 U
Arsenic	13	16	16		4.4	2.8	12	1.9	7.6	3.1
Barium	350	400	820		80	29	57	26	84	8.7
Beryllium	7.2	72	47		0.42 J	0.15 J	0.53	0.11 J	2.3 U	0.11 J
Cadmium	2.5	4.3	7.5		0.52 J	0.26 J	0.23 J	0.34 J	0.66 J	0.29 J
Calcium	--	--	--		2700	10000	1300	5600	160000	54000
Chromium, Hexavalent	1	110	19		0.93 U	0.92 U	0.86 U	0.31 J	0.26 B	1 U
Chromium, Trivalent	30	180	--		18	10	16	14	12	6.8
Chromium	30	180	--		18	10	16	14	12	6.8
Cobalt	--	--	--		6.1	4.3	4.8	4.4	4.2 J	1.6 J
Copper	50	270	1720		**56**	20	30	14	34	11
Cyanide	27	27	40		1.1 U	1.1 U	0.34 J	1.1 U	1.2 U	1.2 U
Iron	--	--	--		16000	11000	6800	14000	11000	6100
Lead	63	400	450		**210**	**67**	16	20	**90**	19
Magnesium	--	--	--		2000	3600	180	5600	15000	1300
Manganese	1600	2000	2000		360	92	23	86	320	59
Mercury	0.18	0.81	0.73		**0.92**	0.09 U	0.1	**0.19**	**0.32**	0.07 J
Nickel	30	310	130		11	9	14	11	16	4.3
Potassium	--	--	--		750	700	320	840	690 J	360
Selenium	3.9	180	4		0.6 J	1.7 U	0.8 J	1.9 U	9.4 U	0.34 J
Silver	2	180	8.3		0.88 U	0.86 U	0.85 U	0.93 U	4.7 U	0.98 U
Sodium	--	--	--		150 J	83 J	160 J	290	250 J	2000
Thallium	--	--	--		1.8 U	1.7 U	1.7 U	1.9 U	9.4 U	2 U
Vanadium	--	--	--		25	14	12	19	20	6
Zinc	109	10000	2480		98	29	23	33	**130**	19

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05
				Sample Date:	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013
				Sample Depth (ft bls):	0-2	10-12	0-2	13-15	0-2
Aluminum	--	--	--		3900	10000	5500	23000	5400
Antimony	--	--	--		4.4 U	4.6 U	4.1 U	4.3 U	1.1 J
Arsenic	13	16	16		**15**	4.9	6.8	3	**18**
Barium	350	400	820		75	51	75	170	91
Beryllium	7.2	72	47		0.24 J	0.46 U	0.33 J	0.94	0.23 J
Cadmium	2.5	4.3	7.5		0.99	0.32 J	0.55 J	1.1	1.1
Calcium	--	--	--		84000	5500	35000	3800	31000
Chromium, Hexavalent	1	110	19		**1.6**	0.94 U	**4**	**2.4**	0.9 U
Chromium, Trivalent	30	180	--		12	**53**	24	**180**	23
Chromium	30	180	--		14	**53**	28	**180**	23
Cobalt	--	--	--		5.3	6.8	6	18	6.1
Copper	50	270	1720		**64**	8.4	43	43	**77**
Cyanide	27	27	40		1.1 U	1.1 U	1.1 U	1 U	1.1 U
Iron	--	--	--		20000	15000	17000	33000	25000
Lead	63	400	450		**150**	2.2 J	**100**	10	**190**
Magnesium	--	--	--		3000	6300	3400	15000	6500
Manganese	1600	2000	2000		240	120	410	370	280
Mercury	0.18	0.81	0.73		**0.29**	0.09 U	0.16	0.02 J	**0.56**
Nickel	30	310	130		18	14	19	**76**	23
Potassium	--	--	--		920	2600	1500	6300	980
Selenium	3.9	180	4		0.37 J	1.9 U	1.6 U	1.7 U	1.3 J
Silver	2	180	8.3		0.88 U	0.93 U	0.82 U	0.86 U	0.87 U
Sodium	--	--	--		720	180 J	410	810	430
Thallium	--	--	--		1.8 U	1.9 U	1.6 U	1.7 U	1.7 U
Vanadium	--	--	--		38	45	20	76	28
Zinc	109	10000	2480		**150**	20	**130**	53	**150**

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07
				Sample Date:	12/11/2013	12/3/2013	12/11/2013	12/2/2013	12/12/2013
				Sample Depth (ft bls):	11-13	0-2	21-23	0-2	7-9
Aluminum	--	--	--		8900	8400	16000	8400	7800
Antimony	--	--	--		4.6 U	4.4 U	5.1 U	4.4 U	4.7 U
Arsenic	13	16	16		1.8	**14**	4.9	9.2	3.6
Barium	350	400	820		92	110	55	200	120
Beryllium	7.2	72	47		0.17 J	0.28 J	0.24 J	0.25 J	0.47 U
Cadmium	2.5	4.3	7.5		0.44 J	0.86 J	0.74 J	0.92	0.32 J
Calcium	--	--	--		19000	24000	1100	36000	12000
Chromium, Hexavalent	1	110	19		0.94 U	0.89 U	1 U	0.91 U	0.96 U
Chromium, Trivalent	30	180	--		**63**	22	**120**	25	**46**
Chromium	30	180	--		**63**	22	**120**	25	**46**
Cobalt	--	--	--		6.6	7.6	18	5.9	7.9
Copper	50	270	1720		42	**58**	45	**73**	40
Cyanide	27	27	40		1.1 U	1.1 U	1.2 U	1.1 U	1.1 U
Iron	--	--	--		14000	20000	22000	22000	14000
Lead	63	400	450		5	**150**	6	**350**	20
Magnesium	--	--	--		8200	6900	9500	7000	8500
Manganese	1600	2000	2000		140	290	160	360	130
Mercury	0.18	0.81	0.73		0.08 U	**0.52**	0.08 U	**0.49**	0.09 U
Nickel	30	310	130		23	24	**68**	20	30
Potassium	--	--	--		2000	2400	2400	1700	3400
Selenium	3.9	180	4		1.8 U	0.98 J	2 U	0.79 J	1.9 U
Silver	2	180	8.3		0.91 U	0.88 U	1 U	0.87 U	0.94 U
Sodium	--	--	--		1300	790	3100	680	700
Thallium	--	--	--		1.8 U	1.8 U	2 U	1.7 U	1.9 U
Vanadium	--	--	--		32	29	59	27	29
Zinc	109	10000	2480		27	**170**	52	**210**	32

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-08	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02
				Sample Date:	12/2/2013	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013
				Sample Depth (ft bls):	0-2	17-19	0-2	13-15	0-2	12.5-14.5
Aluminum	--	--	--		8300	7400	6100	2600	9500	1200
Antimony	--	--	--		4.2 U	4.8 U	4.8 U	4.8 U	4.5 U	4.7 U
Arsenic	13	16	16		**27**	3.2	8.8	2.9	8.5	0.95 U
Barium	350	400	820		130	54	160	27	110	6.2
Beryllium	7.2	72	47		0.26 J	0.11 J	0.72	0.48 U	0.4 J	0.47 U
Cadmium	2.5	4.3	7.5		2	0.43 J	0.78 J	0.19 J	1.6	0.09 J
Calcium	--	--	--		26000	1600	49000	1700	47000	1500
Chromium, Hexavalent	1	110	19		0.89 U	0.99 U	0.47 J	1 U	0.91 U	0.99 U
Chromium, Trivalent	30	180	--		**40**	28	18	8.4	**34**	5.3
Chromium	30	180	--		**40**	28	18	8.4	**34**	5.3
Cobalt	--	--	--		13	6	4.8	2.1	12	0.82 J
Copper	50	270	1720		**100**	**200**	36	9.6	**97**	3.7
Cyanide	27	27	40		1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U
Iron	--	--	--		52000	14000	11000	5900	44000	2700
Lead	63	400	450		**210**	34	39	19	**200**	3.9 J
Magnesium	--	--	--		6900	4500	5800	1900	5400	790
Manganese	1600	2000	2000		460	210	1400	87	400	25
Mercury	0.18	0.81	0.73		**0.3**	0.08 U	0.07 J	0.02 J	**0.59**	0.08 U
Nickel	30	310	130		**46**	17	21	5.4	**60**	1.6 J
Potassium	--	--	--		3800	3800	1900	710	1800	300
Selenium	3.9	180	4		2.2	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Silver	2	180	8.3		0.18 J	0.97 U	0.32 J	0.97 U	0.89 U	0.95 U
Sodium	--	--	--		520	1400	910	900	510	650
Thallium	--	--	--		1.7 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Vanadium	--	--	--		36	21	37	7.9	27	3.9
Zinc	109	10000	2480		**300**	34	**200**	18	**160**	11

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-03	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05	SB-FN-05
				Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/2/2013	12/19/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	7-9	0-2	13-15
Aluminum	--	--	--		7300	7900	1700	13000	6700	12000
Antimony	--	--	--		1 J	4.7 U	4.1 U	4.2 U	2.8 J	4.3 U
Arsenic	13	16	16		4.2	12	4.1	1.5	12	0.47 J
Barium	350	400	820		200	140	53	88	160	55
Beryllium	7.2	72	47		0.43 J	0.36 J	0.31 J	0.17 J	0.2 J	0.43 U
Cadmium	2.5	4.3	7.5		0.84 J	0.71 J	0.18 J	0.52 J	1.6	0.42 J
Calcium	--	--	--		34000	27000	9200	4600	31000	2900
Chromium, Hexavalent	1	110	19		0.92 U	1 U	0.85 U	0.22 J	0.29 B	0.89 U
Chromium, Trivalent	30	180	--		16	**44**	4.9	**83**	22	**98**
Chromium	30	180	--		16	**44**	4.9	**83**	22	**98**
Cobalt	--	--	--		4.5	9.7	5.4	8	5.9	19
Copper	50	270	1720		42	**67**	24	17	**69**	**66**
Cyanide	27	27	40		1.1 U	1.2 U	1 U	1.1 U	1 U	1 U
Iron	--	--	--		11000	22000	7100	15000	28000	15000
Lead	63	400	450		**220**	**66**	12	49	**690**	3.2 J
Magnesium	--	--	--		5100	6400	600	6100	6900	11000
Manganese	1600	2000	2000		360	230	43	150	310	100
Mercury	0.18	0.81	0.73		**0.59**	0.16	0.06 J	0.08 U	**0.95**	0.03 J
Nickel	30	310	130		16	**31**	28	**36**	20	**110**
Potassium	--	--	--		1100	3400	1000	2500	1300	1800
Selenium	3.9	180	4		0.38 J	0.28 J	1.6 U	1.7 U	1.1 J	1.7 U
Silver	2	180	8.3		0.41 J	0.94 U	0.83 U	0.83 U	0.23 J	0.87 U
Sodium	--	--	--		400	1600	610	490	480	680
Thallium	--	--	--		1.8 U	1.9 U	1.6 U	1.7 U	1.7 U	1.7 U
Vanadium	--	--	--		22	36	52	28	32	31
Zinc	109	10000	2480		**210**	73	16	42	**380**	21

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DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	DUP-SB-FN-05	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07
				Sample Date:	12/19/2013	12/2/2013	12/19/2013	12/2/2013	12/19/2013
				Sample Depth (ft bls):	13-15	0-2	7-9	0-2	15-17
Aluminum	--	--	--		11000	10000	10000	4400	14000
Antimony	--	--	--		4.2 U	4.2 U	4.7 U	4.3 U	4.2 U
Arsenic	13	16	16		0.42 J	9.1	6.9	**30**	1.3
Barium	350	400	820		71	230	69	96	79
Beryllium	7.2	72	47		0.42 U	0.17 J	0.3 J	0.11 J	0.26 J
Cadmium	2.5	4.3	7.5		0.38 J	1.1	0.46 J	**6**	0.48 J
Calcium	--	--	--		2700	24000	56000	15000	990
Chromium, Hexavalent	1	110	19		0.41 J	0.23 B	0.97 U	0.9 U	0.7 J
Chromium, Trivalent	30	180	--		**92**	**47**	16	**75**	**52**
Chromium	30	180	--		**92**	**47**	16	**75**	**52**
Cobalt	--	--	--		18	9.6	3.5	16	12
Copper	50	270	1720		**67**	**86**	9.1	**170**	**58**
Cyanide	27	27	40		1.1	1 U	1.2 U	1.1 U	1.1 U
Iron	--	--	--		14000	24000	11000	210000	18000
Lead	63	400	450		2.6 J	**300**	29	**860**	27
Magnesium	--	--	--		10000	10000	24000	4000	7400
Manganese	1600	2000	2000		96	340	860	1200	170
Mercury	0.18	0.81	0.73		0.03 J	**0.91**	0.04 J	**0.5**	0.07 J
Nickel	30	310	130		**100**	**32**	8.1	**150**	**38**
Potassium	--	--	--		2400	3300	830	590	2700
Selenium	3.9	180	4		1.7 U	1.1 J	1.9 U	2.4	1.7 U
Silver	2	180	8.3		0.85 U	0.83 U	0.94 U	0.86	0.38 J
Sodium	--	--	--		570	480	1100	550	1300
Thallium	--	--	--		1.7 U	1.7 U	1.9 U	1.7 U	1.7 U
Vanadium	--	--	--		29	46	20	61	44
Zinc	109	10000	2480		20	**250**	21	**400**	47

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Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	DUP-SB-FN-07	SB-FN-08	SB-FN-08	MW-FS-01	MW-FS-01
				Sample Date:	12/19/2013	11/27/2013	12/19/2013	11/27/2013	12/5/2013
				Sample Depth (ft bls):	15-17	0-2	6-8	0-2	13-14
Aluminum	--	--	--		12000	8400	8400	10000	15000
Antimony	--	--	--		4.1 U	4.4 U	4.3 U	4.2 U	4.4 U
Arsenic	13	16	16		3.9	12	12	4.8	0.18 J
Barium	350	400	820		72	110	95	110	**430**
Beryllium	7.2	72	47		0.35 J	0.33 J	0.32 J	0.19 J	0.44 U
Cadmium	2.5	4.3	7.5		0.58 J	0.9	0.96	0.54 J	0.63 J
Calcium	--	--	--		2500	22000	42000	7800	11000
Chromium, Hexavalent	1	110	19		0.88 U	0.89 U	0.89 U	0.86 U	0.92 U
Chromium, Trivalent	30	180	--		**34**	20	**34**	**32**	**33**
Chromium	30	180	--		**34**	20	**34**	**32**	**33**
Cobalt	--	--	--		18	6.4	5.6	8.7	15
Copper	50	270	1720		**56**	48	**51**	42	**110**
Cyanide	27	27	40		1.1 U	1.1 U	1.1 U	1 U	1.1 U
Iron	--	--	--		20000	18000	19000	18000	28000
Lead	63	400	450		57	**180**	**130**	**130**	3.4 J
Magnesium	--	--	--		5300	5800	8800	6000	14000
Manganese	1600	2000	2000		190	320	320	240	200
Mercury	0.18	0.81	0.73		**0.19**	**0.61**	**0.33**	**0.33**	0.04 J
Nickel	30	310	130		**33**	18	20	19	11
Potassium	--	--	--		2800	1300	1100	2300	10000
Selenium	3.9	180	4		1.6 U	0.88 J	0.48 J	0.51 J	1.8 U
Silver	2	180	8.3		0.23 J	0.88 U	0.86 U	0.84 U	0.88 U
Sodium	--	--	--		990	520	1100	190	880
Thallium	--	--	--		1.6 U	1.8 U	1.7 U	1.7 U	1.8 U
Vanadium	--	--	--		31	27	29	34	96
Zinc	109	10000	2480		71	**170**	**160**	80	46

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DUP - Duplicate sample
mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-FS-02 11/26/2013 0-2	MW-FS-02 12/2/2013 8-10	MW-FS-03 11/26/2013 0-2	MW-FS-03 12/3/2013 8.5-10.5	MW-FS-04 11/26/2013 0-2	MW-FS-04 12/3/2013 7-8
Aluminum	--	--	--		6200	11000	5400	19000	3600	16000
Antimony	--	--	--		1.3 J	4.3 U	4.1 U	4.5 U	4.2 U	4.7 U
Arsenic	13	16	16		7.1	3.6	3	0.98	5	0.5 J
Barium	350	400	820		**440**	74	66	180	64	230
Beryllium	7.2	72	47		0.24 J	0.28 J	0.22 J	0.12 J	0.19 J	0.47 U
Cadmium	2.5	4.3	7.5		0.53 J	0.53 J	0.23 J	0.67 J	0.08 J	0.74 J
Calcium	--	--	--		44000	3600	11000	2500	44000	2400
Chromium, Hexavalent	1	110	19		0.89 U	0.29 B	0.85 U	0.44 J	0.86 U	0.54 J
Chromium, Trivalent	30	180	--		14	30	10	**180**	8.8	20
Chromium	30	180	--		14	30	10	**180**	8.8	20
Cobalt	--	--	--		11	9.9	4.3	16	3.3	17
Copper	50	270	1720		**84**	30	25	50	28	**56**
Cyanide	27	27	40		1.1 U	1 U	1 U	1.1 U	1 U	1.1 U
Iron	--	--	--		14000	20000	9400	27000	7400	31000
Lead	63	400	450		**410**	34	**160**	12	**380**	3.4 J
Magnesium	--	--	--		3800	5400	3600	14000	1900	13000
Manganese	1600	2000	2000		230	330	350	290	110	310
Mercury	0.18	0.81	0.73		**0.56**	0.02 J	**0.67**	0.09 U	0.12	0.09 U
Nickel	30	310	130		17	22	9.9	**94**	11	23
Potassium	--	--	--		1400	2200	750	7400	910	6900
Selenium	3.9	180	4		1.8 U	0.46 J	1.6 U	0.7 J	0.56 J	0.81 J
Silver	2	180	8.3		1.1	0.86 U	0.19 J	0.89 U	0.84 U	0.19 J
Sodium	--	--	--		540	1200	210	450	620	710
Thallium	--	--	--		1.8 U	1.7 U	1.6 U	1.8 U	1.7 U	1.9 U
Vanadium	--	--	--		18	31	16	58	10	69
Zinc	109	10000	2480		**370**	50	**110**	69	33	40

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-FS-01 11/27/2013 0-2	SB-FS-01 12/4/2013 10-11	SB-FS-02 12/4/2013 0-2	SB-FS-03 11/26/2013 0-2	SB-FS-03 12/3/2013 8-10	MW-ZA-01 12/4/2013 0-2
Aluminum	--	--	--		5500	13000	5600	5900	12000	6600
Antimony	--	--	--		4.1 U	4.4 U	4.5	1 J	4.2 U	4.2 U
Arsenic	13	16	16		2.8	0.55 J	7.6	3	1.5	2.1
Barium	350	400	820		21	170	210	63	79	40
Beryllium	7.2	72	47		0.16 J	0.44 U	0.28 J	0.22 J	0.42 U	0.31 J
Cadmium	2.5	4.3	7.5		0.26 J	0.93	0.86 J	0.4 J	0.45 J	0.41 J
Calcium	--	--	--		29000	4200	31000	21000	1200	2900
Chromium, Hexavalent	1	110	19		2.9	0.93 U	0.91 U	0.34 J	0.34 J	0.87 U
Chromium, Trivalent	30	180	--		14	**49**	**200**	14	**70**	14
Chromium	30	180	--		17	**49**	**200**	14	**70**	14
Cobalt	--	--	--		2.7	26	5	4.8	7.7	6.4
Copper	50	270	1720		8	**74**	**100**	24	31	34
Cyanide	27	27	40		1 U	1.1 U	1 U	1 U	1 U	1 U
Iron	--	--	--		7100	33000	17000	12000	19000	13000
Lead	63	400	450		14	1.4 J	**330**	**84**	5.4	**66**
Magnesium	--	--	--		5200	10000	3400	3100	8600	2000
Manganese	1600	2000	2000		110	130	160	200	160	290
Mercury	0.18	0.81	0.73		0.03 J	0.08 U	**0.26**	0.16	0.07 U	0.07 J
Nickel	30	310	130		7.6	**41**	19	12	**36**	19
Potassium	--	--	--		600	6900	930	950	4700	450
Selenium	3.9	180	4		0.25 J	0.69 J	1.8 U	1.6 U	0.49 J	1.7 U
Silver	2	180	8.3		0.82 U	0.88 U	0.56 J	0.81 U	0.84 U	0.84 U
Sodium	--	--	--		360	740	200	320	590	77 J
Thallium	--	--	--		1.6 U	1.8 U	1.8 U	1.6 U	1.7 U	1.7 U
Vanadium	--	--	--		9.8	84	18	17	36	19
Zinc	109	10000	2480		22	84	**250**	55	44	**200**

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-01 12/10/2013 8-10	MW-ZA-02 12/4/2013 0-2	MW-ZA-02 12/6/2013 9-11	MW-ZA-03 12/4/2013 0-2	MW-ZA-03 12/4/2013 4-5
Aluminum	--	--	--		16000	7400	38000	5000	6600
Antimony	--	--	--		4.6 U	4.2 U	4 U	3.2 J	5.4 U
Arsenic	13	16	16		0.69 J	2.6	0.8 U	4	4.1
Barium	350	400	820		250	54	**640**	65	110
Beryllium	7.2	72	47		0.46 U	0.28 J	0.4 U	0.14 J	0.14 J
Cadmium	2.5	4.3	7.5		0.59 J	0.49 J	0.8 U	0.43 J	0.35 J
Calcium	--	--	--		3100	14000	1400	57000	11000
Chromium, Hexavalent	1	110	19		0.92 U	0.88 U	0.83 U	0.89 U	0.5 J
Chromium, Trivalent	30	180	--		**44**	19	**270**	12	29
Chromium	30	180	--		**44**	19	**270**	12	29
Cobalt	--	--	--		15	5.8	24	4.5	6.3
Copper	50	270	1720		**110**	**75**	26	24	**670**
Cyanide	27	27	40		1.1 U	1 U	0.97 U	1 U	1.3 U
Iron	--	--	--		24000	13000	56000	15000	14000
Lead	63	400	450		6	**130**	3.7 J	**120**	**110**
Magnesium	--	--	--		12000	4700	25000	6700	4200
Manganese	1600	2000	2000		130	200	580	420	280
Mercury	0.18	0.81	0.73		0.09 U	0.13	0.09 U	0.12	**0.6**
Nickel	30	310	130		20	15	**100**	10	17
Potassium	--	--	--		5000	720	26000	1800	1800
Selenium	3.9	180	4		1.8 U	1.7 U	1.6 U	0.71 J	2.1 U
Silver	2	180	8.3		0.92 U	0.84 U	0.8 U	0.84 U	0.32 J
Sodium	--	--	--		520	180	660	200	260
Thallium	--	--	--		1.8 U	1.7 U	1.6 U	1.7 U	2.1 U
Vanadium	--	--	--		87	22	170	16	18
Zinc	109	10000	2480		47	**280**	98	50	49

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-03 12/10/2013 7-9	SB-ZA-04 12/4/2013 0-2	MW-ZA-04 12/6/2013 9-10	SB-ZA-02 12/4/2013 0-2	SB-ZA-02 12/10/2013 10.5-12.5	SB-ZA-03 12/4/2013 0-2
Aluminum	--	--	--		21000	9100	13000	12000	23000	7100
Antimony	--	--	--		4.5 U	4.2 U	4.5 U	4.2 U	4.4 U	4.3 U
Arsenic	13	16	16		0.9	3.2	1.4	3.6	1.8	3.2
Barium	350	400	820		260	44	99	92	290	54
Beryllium	7.2	72	47		0.14 J	0.36 J	0.09 J	0.29 J	0.19 J	0.24 J
Cadmium	2.5	4.3	7.5		0.66 J	0.44 J	0.89 U	0.56 J	1.1	0.8 J
Calcium	--	--	--		2900	3800	1400	14000	3100	41000
Chromium, Hexavalent	1	110	19		0.51 J	0.86 U	**1.2**	0.9 U	0.49 J	0.88 U
Chromium, Trivalent	30	180	--		**180**	18	**69**	**33**	**95**	22
Chromium	30	180	--		**180**	18	**70**	**33**	**95**	22
Cobalt	--	--	--		21	5	10	11	16	5
Copper	50	270	1720		**120**	23	25	**61**	**58**	33
Cyanide	27	27	40		1.1 U	1 U	1.1 U	1 U	1.1 U	0.25 J
Iron	--	--	--		27000	16000	19000	19000	36000	12000
Lead	63	400	450		7.9	**77**	**91**	**150**	5.7	**69**
Magnesium	--	--	--		14000	2100	74000	5800	15000	9200
Manganese	1600	2000	2000		220	230	200	250	420	200
Mercury	0.18	0.81	0.73		0.09 U	**0.2**	0.08 U	**0.29**	0.08 U	0.06 J
Nickel	30	310	130		**99**	15	**32**	23	**45**	11
Potassium	--	--	--		5600	580	4800	1600	5900	940
Selenium	3.9	180	4		1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Silver	2	180	8.3		0.9 U	0.85 U	0.89 U	0.84 U	0.87 U	0.86 U
Sodium	--	--	--		360	140 J	250	200	480	220
Thallium	--	--	--		1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Vanadium	--	--	--		84	26	39	33	84	26
Zinc	109	10000	2480		63	52	38	92	82	**140**

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Table 4. Summary of Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-ZA-03 12/4/2013 4-5	SB-ZA-03 12/10/2013 5-6.5
Aluminum	--	--	--		2400	16000
Antimony	--	--	--		1.2 J	4 U
Arsenic	13	16	16		5.2	0.59 J
Barium	350	400	820		160	**610**
Beryllium	7.2	72	47		0.11 J	0.4 U
Cadmium	2.5	4.3	7.5		0.31 J	0.79 J
Calcium	--	--	--		17000	2900
Chromium, Hexavalent	1	110	19		0.89 U	0.84 U
Chromium, Trivalent	30	180	--		15	**58**
Chromium	30	180	--		15	**58**
Cobalt	--	--	--		2.8	18
Copper	50	270	1720		26	**59**
Cyanide	27	27	40		1.1 U	1 U
Iron	--	--	--		6500	26000
Lead	63	400	450		**390**	8
Magnesium	--	--	--		1400	15000
Manganese	1600	2000	2000		95	170
Mercury	0.18	0.81	0.73		**0.28**	0.08 U
Nickel	30	310	130		5.6	21
Potassium	--	--	--		680	11000
Selenium	3.9	180	4		2	1.6 U
Silver	2	180	8.3		0.85 U	0.81 U
Sodium	--	--	--		260	430
Thallium	--	--	--		1.7 U	1.6 U
Vanadium	--	--	--		7.5	130
Zinc	109	10000	2480		86	55

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NYSDEC - New York State Department of Environmental Conservation
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Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
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Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-01 12/6/2013 0-2	MW-AE-01 12/18/2013 11-13	MW-AE-02 12/6/2013 0-2	MW-AE-02 12/13/2013 10-12
Aroclor-1016	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1221	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1232	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1242	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1248	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1254	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1260	--	--	--		585	18 J	531	41 U
Aroclor-1262	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Aroclor-1268	--	--	--		68.7 U	52.4 U	35.1 U	41 U
Total PCBs	100	1000	3200		**585**	18	**531**	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

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PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-03 12/6/2013 0-2	MW-AE-03 12/13/2013 17-19	MW-AE-04 12/5/2013 0-2	MW-AE-04 12/10/2013 12-14
Aroclor-1016	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1221	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1232	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1242	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1248	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1254	--	--	--		34.6 U	39 U	38.2 U	11.2 J
Aroclor-1260	--	--	--		13.8 J	39 U	58.8	38.1 U
Aroclor-1262	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Aroclor-1268	--	--	--		34.6 U	39 U	38.2 U	38.1 U
Total PCBs	100	1000	3200		13.8	0	58.8	11.2

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

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Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

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PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-05 12/6/2013 0-2	MW-AE-05 12/18/2013 18-20	SB-AE-01 12/6/2013 0-2	SB-AE-01 12/12/2013 7-9
Aroclor-1016	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1221	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1232	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1242	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1248	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1254	--	--	--		12.4 J	41.3 U	34.8 U	38.9 U
Aroclor-1260	--	--	--		10 J	41.3 U	34.8 U	38.9 U
Aroclor-1262	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Aroclor-1268	--	--	--		38.2 U	41.3 U	34.8 U	38.9 U
Total PCBs	100	1000	3200		22.4	0	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-02	SB-AE-02	SB-AE-03	SB-AE-03	SB-AE-04
				Sample Date:	12/5/2013	12/12/2013	12/6/2013	12/6/2013	12/6/2013
				Sample Depth (ft bls):	0-2	13-15	0-2	2-3	0-2
Aroclor-1016	--	--	--		35.9 U	59.2 U	36.3 U	37 U	37.5 U
Aroclor-1221	--	--	--		35.9 U	57.3 U	36.3 U	37 U	37.5 U
Aroclor-1232	--	--	--		35.9 U	59.2 U	36.3 U	37 U	37.5 U
Aroclor-1242	--	--	--		35.9 U	59.2 U	36.3 U	37 U	37.5 U
Aroclor-1248	--	--	--		35.9 U	57.3 U	36.3 U	37 U	37.5 U
Aroclor-1254	--	--	--		35.9 U	57.3 U	36.3 U	37 U	37.5 U
Aroclor-1260	--	--	--		35.9 U	57.3 U	10.1 J	510	9.88 J
Aroclor-1262	--	--	--		35.9 U	57.3 U	36.3 U	37 U	37.5 U
Aroclor-1268	--	--	--		35.9 U	57.3 U	36.3 U	37 U	37.5 U
Total PCBs	100	1000	3200		0	0	10.1	**510**	9.388

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-04	MW-FN-01	MW-FN-01	MW-FN-02
				Sample Date:	12/12/2013	12/4/2013	12/9/2013	12/3/2013
				Sample Depth (ft bls):	5-7	0-2	10-12	0-2
Aroclor-1016	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1221	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1232	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1242	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1248	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1254	--	--	--		36.7 U	34.3 U	38.2 U	284
Aroclor-1260	--	--	--		36.7 U	34.3 U	38.2 U	48.8
Aroclor-1262	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Aroclor-1268	--	--	--		36.7 U	34.3 U	38.2 U	40.8 U
Total PCBs	100	1000	3200		0	0	0	**332.8**

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-03	MW-FN-04
				Sample Date:	12/9/2013	12/5/2013	12/13/2013	12/5/2013
				Sample Depth (ft bls):	13-15	0-2	10-12	0-2
Aroclor-1016	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1221	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1232	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1242	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1248	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1254	--	--	--		40.1 U	15.7 J	38.8 U	306
Aroclor-1260	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1262	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Aroclor-1268	--	--	--		40.1 U	35.3 U	38.8 U	72.4 U
Total PCBs	100	1000	3200		0	15.7	0	**306**

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-04	MW-FN-05	MW-FN-05	MW-FN-06
				Sample Date:	12/9/2013	12/3/2013	12/11/2013	12/3/2013
				Sample Depth (ft bls):	13-15	0-2	11-13	0-2
Aroclor-1016	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1221	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1232	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1242	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1248	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1254	--	--	--		36.9 U	16.2 J	15.6 J	36.6 U
Aroclor-1260	--	--	--		36.9 U	19.6 J	38.4 U	13 J
Aroclor-1262	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Aroclor-1268	--	--	--		36.9 U	36.2 U	38.4 U	36.6 U
Total PCBs	100	1000	3200		0	35.8	15.6	13

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-06	MW-FN-07	MW-FN-07	MW-FN-08
				Sample Date:	12/11/2013	12/2/2013	12/12/2013	12/2/2013
				Sample Depth (ft bls):	21-23	0-2	7-9	0-2
Aroclor-1016	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1221	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1232	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1242	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1248	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1254	--	--	--		18.5 J	36.1 J	39.4 U	24.1 J
Aroclor-1260	--	--	--		41.7 U	63.7	39.4 U	35.4 J
Aroclor-1262	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Aroclor-1268	--	--	--		41.7 U	37.7 U	39.4 U	36.7 U
Total PCBs	100	1000	3200		18.5	99.8	0	59.5

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02
				Sample Date:	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013
				Sample Depth (ft bls):	17-19	0-2	13-15	0-2	12.5-14.5
Aroclor-1016	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1221	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1232	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1242	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1248	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1254	--	--	--		20.8 J	16.2 J	41.8 U	260	40.1 U
Aroclor-1260	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1262	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Aroclor-1268	--	--	--		39.6 U	40.6 U	41.8 U	35.7 U	40.1 U
Total PCBs	100	1000	3200		20.8	16.2	0	**260**	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-03	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05
				Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/2/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	7-9	0-2
Aroclor-1016	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1221	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1232	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1242	--	--	--		77.1	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1248	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1254	--	--	--		343	37.5 U	34.9 U	34.1 U	15.7 J
Aroclor-1260	--	--	--		63.7	37.5 U	34.9 U	34.1 U	43.1
Aroclor-1262	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Aroclor-1268	--	--	--		37.7 U	37.5 U	34.9 U	34.1 U	36.7 U
Total PCBs	100	1000	3200		**483.8**	0	0	0	58.8

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards
PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-05	DUP-SB-FN-05	SB-FN-06	SB-FN-06
				Sample Date:	12/19/2013	12/19/2013	12/2/2013	12/19/2013
				Sample Depth (ft bls):	13-15	13-15	0-2	7-9
Aroclor-1016	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1221	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1232	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1242	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1248	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1254	--	--	--		35.9 U	34.6 U	15.1 J	38.9 U
Aroclor-1260	--	--	--		35.9 U	34.6 U	20.9 J	38.9 U
Aroclor-1262	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Aroclor-1268	--	--	--		35.9 U	34.6 U	34.7 U	38.9 U
Total PCBs	100	1000	3200		0	0	36	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08
				Sample Date:	12/2/2013	12/19/2013	12/19/2013	11/27/2013
				Sample Depth (ft bls):	0-2	15-17	15-17	0-2
Aroclor-1016	--	--	--		35.3 U	35.2 U	70.4 U	36.3 U
Aroclor-1221	--	--	--		35.3 U	35.2 U	70.4 U	36.3 U
Aroclor-1232	--	--	--		35.3 U	71.2 U	70.4 U	36.3 U
Aroclor-1242	--	--	--		35.3 U	35.2 U	70.4 U	36.3 U
Aroclor-1248	--	--	--		35.3 U	71.2 U	70.4 U	36.3 U
Aroclor-1254	--	--	--		44.3	35.2 U	70.4 U	9.86 J
Aroclor-1260	--	--	--		90.3	35.2 U	70.4 U	9.7 J
Aroclor-1262	--	--	--		35.3 U	35.2 U	70.4 U	36.3 U
Aroclor-1268	--	--	--		35.3 U	71.2 U	70.4 U	36.3 U
Total PCBs	100	1000	3200		**134.6**	0	0	19.56

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-08	MW-FS-01	MW-FS-01	MW-FS-02
				Sample Date:	12/19/2013	11/27/2013	12/5/2013	11/26/2013
				Sample Depth (ft bls):	6-8	0-2	13-14	0-2
Aroclor-1016	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1221	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1232	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1242	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1248	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1254	--	--	--		12.1 J	34.5 U	36.2 U	76
Aroclor-1260	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1262	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Aroclor-1268	--	--	--		36.2 U	34.5 U	36.2 U	35.5 U
Total PCBs	100	1000	3200		12.1	0	0	76

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-FS-02 12/2/2013 8-10	MW-FS-03 11/26/2013 0-2	MW-FS-03 12/3/2013 8.5-10.5	MW-FS-04 11/26/2013 0-2
Aroclor-1016	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1221	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1232	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1242	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1248	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1254	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1260	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1262	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Aroclor-1268	--	--	--		35.9 U	34.9 U	38.9 U	35 U
Total PCBs	100	1000	3200		0	0	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-FS-04 12/3/2013 7-8	SB-FS-01 11/27/2013 0-2	SB-FS-01 12/4/2013 10-11	SB-FS-02 12/4/2013 0-2
Aroclor-1016	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1221	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1232	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1242	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1248	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1254	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1260	--	--	--		39.5 U	34.3 U	37.8 U	14.1 J
Aroclor-1262	--	--	--		39.5 U	34.3 U	37.8 U	37.4 U
Aroclor-1268	--	--	--		39.5 U	34.3 U	37.8 U	34.3 U
Total PCBs	100	1000	3200		0	0	0	14.1

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-FS-03 11/26/2013 0-2	SB-FS-03 12/3/2013 8-10	MW-ZA-01 12/4/2013 0-2	MW-ZA-01 12/10/2013 8-10
Aroclor-1016	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1221	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1232	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1242	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1248	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1254	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1260	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1262	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Aroclor-1268	--	--	--		35.2 U	35.1 U	34.4 U	104 U
Total PCBs	100	1000	3200		0	0	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

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Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-02 12/4/2013 0-2	MW-ZA-02 12/6/2013 9-11	MW-ZA-03 12/4/2013 0-2	MW-ZA-03 12/4/2013 4-5
Aroclor-1016	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1221	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1232	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1242	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1248	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1254	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1260	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1262	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Aroclor-1268	--	--	--		35.9 U	34.5 U	36.4 U	45 U
Total PCBs	100	1000	3200		0	0	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-03 12/10/2013 7-9	SB-ZA-04 12/4/2013 0-2	MW-ZA-04 12/6/2013 9-10	SB-ZA-02 12/4/2013 0-2
Aroclor-1016	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1221	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1232	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1242	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1248	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1254	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1260	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1262	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Aroclor-1268	--	--	--		113 U	34.6 U	37.8 U	35.4 U
Total PCBs	100	1000	3200		0	0	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 5. Summary of Polychlorinated Biphenyls in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-ZA-02 12/10/2013 10.5-12.5	SB-ZA-03 12/4/2013 0-2	SB-ZA-03 12/4/2013 4-5	SB-ZA-03 12/10/2013 5-6.5
Aroclor-1016	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1221	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1232	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1242	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1248	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1254	--	--	--		8.85 J	168	37.1 U	34.4 U
Aroclor-1260	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1262	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Aroclor-1268	--	--	--		37.8 U	36.0 U	37.1 U	34.4 U
Total PCBs	100	1000	3200		8.85	**168**	0	0

J - Estimated value

U - Indicates that the compound was analyzed for but not detected

PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported

DUP - Duplicate sample

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

NYSDEC - New York State Department of Environmental Conservation

-- No NYSDEC Part 375 Standards available

Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards

Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards

Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

PCBs - Polychlorinated Biphenyls

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-01 12/6/2013 0-2	MW-AE-01 12/18/2013 11-13	MW-AE-02 12/6/2013 0-2	MW-AE-02 12/13/2013 10-12	MW-AE-03 12/6/2013 0-2
2,4,5-T	--	--	--		179 U	258 U	177 U	210 U	172 U
2,4,5-TP	3800	100000	3800		179 U	258 U	177 U	210 U	172 U
2,4-D	--	--	--		179 U	258 U	177 U	210 U	172 U
4,4'-DDD	3.3	13000	14000		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
4,4'-DDE	3.3	8900	17000		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
4,4'-DDT	3.3	7900	136000		3.14 U	4.51 U	3.12 U	3.74 U	3 U
Aldrin	5	97	190		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
alpha-BHC	20	480	20		0.697 U	1 U	0.693 U	0.831 U	0.668 U
alpha-Chlordane	94	4200	2900		2.09 U	3.01 U	2.08 U	2.49 U	2 U
beta-BHC	36	360	90		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
Chlordane	--	--	--		13.6 U	19.6 U	13.5 U	16.2 U	13 U
delta-BHC	40	100000	250		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
Dieldrin	5	200	100		1.04 U	1.5 U	**17.4 PI**	1.25 U	1 U
Endosulfan I	2400	24000	102000		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
Endosulfan II	2400	24000	102000		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
Endosulfan sulfate	2400	24000	1000000		0.697 U	1 U	0.693 U	0.831 U	0.668 U
Endrin ketone	--	--	--		1.67 U	2.41 U	1.66 U	1.99 U	1.6 U
Endrin	14	11000	60		0.697 U	1 U	0.693 U	0.831 U	0.668 U
gamma-BHC (Lindane)	100	1300	100		0.697 U	1 U	0.693 U	0.831 U	0.668 U
gamma-Chlordane	--	--	--		2.09 U	3.01 U	2.08 U	2.49 U	2 U
Heptachlor epoxide	--	--	--		3.14 U	4.51 U	3.12 U	3.74 U	3 U
Heptachlor	42	2100	380		0.836 U	1.2 U	0.832 U	0.997 U	0.801 U
Methoxychlor	--	--	--		3.14 U	4.51 U	3.12 U	3.74 U	3 U
Toxaphene	--	--	--		31.4 U	45.1 U	31.2 U	37.4 U	30 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-AE-03 12/13/2013 17-19	MW-AE-04 12/5/2013 0-2	MW-AE-04 12/10/2013 12-14	MW-AE-05 12/6/2013 0-2	MW-AE-05 12/18/2013 18-20
2,4,5-T	--	--	--		204 U	196 U	201 U	191 U	209 U
2,4,5-TP	3800	100000	3800		204 U	196 U	201 U	191 U	209 U
2,4-D	--	--	--		204 U	196 U	201 U	191 U	209 U
4,4'-DDD	3.3	13000	14000		1.87 U	1.78 U	1.88 U	**7.58**	1.99 U
4,4'-DDE	3.3	8900	17000		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
4,4'-DDT	3.3	7900	136000		3.51 U	3.34 U	3.53 U	3.35 U	3.73 U
Aldrin	5	97	190		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
alpha-BHC	20	480	20		0.781 U	0.742 U	0.785 U	0.745 U	0.829 U
alpha-Chlordane	94	4200	2900		2.34 U	2.22 U	2.36 U	2.24 U	2.49 U
beta-BHC	36	360	90		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
Chlordane	--	--	--		15.2 U	14.5 U	15.3 U	14.5 U	16.2 U
delta-BHC	40	100000	250		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
Dieldrin	5	200	100		1.17 U	1.11 U	1.18 U	1.12 U	1.24 U
Endosulfan I	2400	24000	102000		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
Endosulfan II	2400	24000	102000		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
Endosulfan sulfate	2400	24000	1000000		0.781 U	0.742 U	0.785 U	0.745 U	0.829 U
Endrin ketone	--	--	--		1.87 U	1.78 U	1.88 U	1.79 U	1.99 U
Endrin	14	11000	60		0.781 U	0.742 U	0.785 U	0.745 U	0.829 U
gamma-BHC (Lindane)	100	1300	100		0.781 U	0.742 U	0.785 U	0.745 U	0.829 U
gamma-Chlordane	--	--	--		2.34 U	2.22 U	2.36 U	2.24 U	2.49 U
Heptachlor epoxide	--	--	--		3.51 U	3.34 U	3.53 U	3.35 U	3.73 U
Heptachlor	42	2100	380		0.937 U	0.89 U	0.942 U	0.894 U	0.995 U
Methoxychlor	--	--	--		3.51 U	3.34 U	3.53 U	3.35 U	3.73 U
Toxaphene	--	--	--		35.1 U	33.4 U	35.3 U	33.5 U	37.3 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
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Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-AE-01 12/6/2013 0-2	SB-AE-01 12/12/2013 7-9	SB-AE-02 12/5/2013 0-2	SB-AE-02 12/12/2013 13-15	SB-AE-03 12/6/2013 0-2	SB-AE-03 12/6/2013 2-3
2,4,5-T	--	--	--		177 U	199 U	182 U	293 U	181 U	188 U
2,4,5-TP	3800	100000	3800		177 U	199 U	182 U	293 U	181 U	188 U
2,4-D	--	--	--		177 U	199 U	182 U	293 U	181 U	2590
4,4'-DDD	3.3	13000	14000		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
4,4'-DDE	3.3	8900	17000		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
4,4'-DDT	3.3	7900	136000		3.17 U	3.47 U	3.26 U	5.1 U	3.22 U	3.28 U
Aldrin	5	97	190		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
alpha-BHC	20	480	20		0.704 U	0.772 U	0.725 U	1.13 U	0.717 U	0.728 U
alpha-Chlordane	94	4200	2900		2.11 U	2.32 U	4.53	3.4 U	2.15 U	2.18 U
beta-BHC	36	360	90		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
Chlordane	--	--	--		13.7 U	15 U	17.3 PI	22.1 U	14 U	14.2 U
delta-BHC	40	100000	250		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
Dieldrin	5	200	100		1.06 U	1.16 U	1.09 U	1.7 U	1.08 U	1.09 U
Endosulfan I	2400	24000	102000		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
Endosulfan II	2400	24000	102000		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
Endosulfan sulfate	2400	24000	1000000		0.704 U	0.772 U	0.725 U	1.13 U	0.717 U	0.728 U
Endrin ketone	--	--	--		1.69 U	1.85 U	1.74 U	2.72 U	1.72 U	1.75 U
Endrin	14	11000	60		0.704 U	0.772 U	0.725 U	1.13 U	0.717 U	0.728 U
gamma-BHC (Lindane)	100	1300	100		0.704 U	0.772 U	0.725 U	1.13 U	0.717 U	0.728 U
gamma-Chlordane	--	--	--		2.11 U	2.32 U	3.04 PI	3.4 U	2.15 U	2.18 U
Heptachlor epoxide	--	--	--		3.17 U	3.47 U	3.26 U	5.1 U	3.22 U	3.28 U
Heptachlor	42	2100	380		0.845 U	0.926 U	0.87 U	1.36 U	0.86 U	0.874 U
Methoxychlor	--	--	--		3.17 U	3.47 U	3.26 U	5.1 U	3.22 U	3.28 U
Toxaphene	--	--	--		31.7 U	34.7 U	32.6 U	51 U	32.2 U	32.8 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-AE-04	SB-AE-04	MW-FN-01	MW-FN-01	MW-FN-02	MW-FN-02
				Sample Date:	12/6/2013	12/12/2013	12/4/2013	12/9/2013	12/3/2013	12/9/2013
				Sample Depth (ft bls):	0-2	5-7	0-2	10-12	0-2	13-15
2,4,5-T	--	--	--		193 U	192 U	174 U	194 U	204 U	199 U
2,4,5-TP	3800	100000	3800		193 U	192 U	174 U	194 U	204 U	199 U
2,4-D	--	--	--		193 U	192 U	174 U	194 U	204 U	28.3 J
4,4'-DDD	3.3	13000	14000		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
4,4'-DDE	3.3	8900	17000		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
4,4'-DDT	3.3	7900	136000		3.27 U	3.44 U	3.16 U	3.48 U	**8.86 PI**	3.71 U
Aldrin	5	97	190		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
alpha-BHC	20	480	20		0.727 U	0.764 U	0.702 U	0.774 U	0.793 U	0.825 U
alpha-Chlordane	94	4200	2900		2.18 U	2.29 U	2.1 U	2.32 U	2.38 U	2.47 U
beta-BHC	36	360	90		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
Chlordane	--	--	--		14.2 U	14.9 U	13.7 U	15.1 U	15.5 U	16.1 U
delta-BHC	40	100000	250		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
Dieldrin	5	200	100		1.09 U	1.14 U	1.05 U	1.16 U	1.19 U	1.24 U
Endosulfan I	2400	24000	102000		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
Endosulfan II	2400	24000	102000		1.74 U	1.83 U	1.68 U	1.86 U	1.53 J	1.98 U
Endosulfan sulfate	2400	24000	1000000		0.727 U	0.764 U	0.702 U	0.774 U	0.793 U	0.825 U
Endrin ketone	--	--	--		1.74 U	1.83 U	1.68 U	1.86 U	1.9 U	1.98 U
Endrin	14	11000	60		0.727 U	0.764 U	0.702 U	0.774 U	0.793 U	0.825 U
gamma-BHC (Lindane)	100	1300	100		0.727 U	0.764 U	0.702 U	0.774 U	0.793 U	0.825 U
gamma-Chlordane	--	--	--		2.18 U	2.29 U	2.1 U	2.32 U	2.38 U	2.47 U
Heptachlor epoxide	--	--	--		3.27 U	3.44 U	3.16 U	3.48 U	3.57 U	3.71 U
Heptachlor	42	2100	380		0.873 U	0.916 U	0.842 U	0.929 U	0.952 U	0.99 U
Methoxychlor	--	--	--		3.27 U	3.44 U	3.16 U	3.48 U	3.57 U	3.71 U
Toxaphene	--	--	--		32.7 U	34.4 U	31.6 U	34.8 U	35.7 U	37.1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04	MW-FN-05
				Sample Date:	12/5/2013	12/13/2013	12/5/2013	12/9/2013	12/3/2013
				Sample Depth (ft bls):	0-2	10-12	0-2	13-15	0-2
2,4,5-T	--	--	--		185 U	191 U	179 U	188 U	187 U
2,4,5-TP	3800	100000	3800		185 U	191 U	179 U	188 U	187 U
2,4-D	--	--	--		185 U	191 U	179 U	188 U	187 U
4,4'-DDD	3.3	13000	14000		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
4,4'-DDE	3.3	8900	17000		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
4,4'-DDT	3.3	7900	136000		3.31 U	3.5 U	3.23 U	3.37 U	3.32 U
Aldrin	5	97	190		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
alpha-BHC	20	480	20		0.736 U	0.779 U	0.718 U	0.749 U	0.738 U
alpha-Chlordane	94	4200	2900		2.21 U	2.34 U	2.15 U	2.25 U	2.21 U
beta-BHC	36	360	90		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
Chlordane	--	--	--		14.3 U	15.2 U	14 U	14.6 U	14.4 U
delta-BHC	40	100000	250		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
Dieldrin	5	200	100		1.1 U	1.17 U	1.08 U	1.12 U	1.11 U
Endosulfan I	2400	24000	102000		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
Endosulfan II	2400	24000	102000		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
Endosulfan sulfate	2400	24000	1000000		0.736 U	0.779 U	0.718 U	0.749 U	0.738 U
Endrin ketone	--	--	--		1.76 U	1.87 U	1.72 U	1.8 U	1.77 U
Endrin	14	11000	60		0.736 U	0.779 U	0.718 U	0.749 U	0.738 U
gamma-BHC (Lindane)	100	1300	100		0.736 U	0.779 U	0.718 U	0.749 U	0.738 U
gamma-Chlordane	--	--	--		2.21 U	2.34 U	2.15 U	2.25 U	2.21 U
Heptachlor epoxide	--	--	--		3.31 U	3.5 U	3.23 U	3.37 U	3.32 U
Heptachlor	42	2100	380		0.883 U	0.935 U	0.862 U	0.898 U	0.886 U
Methoxychlor	--	--	--		3.31 U	3.5 U	3.23 U	3.37 U	3.32 U
Toxaphene	--	--	--		33.1 U	35 U	32.3 U	33.7 U	33.2 U

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DUP - Duplicate sample
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NYSDEC - New York State Department of Environmental Conservation
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Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07
				Sample Date:	12/11/2013	12/3/2013	12/11/2013	12/2/2013	12/12/2013
				Sample Depth (ft bls):	11-13	0-2	21-23	0-2	7-9
2,4,5-T	--	--	--		195 U	183 U	217 U	190 U	187 U
2,4,5-TP	3800	100000	3800		195 U	183 U	217 U	190 U	187 U
2,4-D	--	--	--		195 U	183 U	217 U	190 U	187 U
4,4'-DDD	3.3	13000	14000		1.87 U	1.96 PI	2.04 U	1.71 U	1.83 U
4,4'-DDE	3.3	8900	17000		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
4,4'-DDT	3.3	7900	136000		**4.22**	**8.24 PI**	3.83 U	**5.93 PI**	3.43 U
Aldrin	5	97	190		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
alpha-BHC	20	480	20		0.78 U	0.711 U	0.851 U	0.713 U	0.763 U
alpha-Chlordane	94	4200	2900		2.34 U	2.13 U	2.55 U	2.14 U	2.29 U
beta-BHC	36	360	90		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
Chlordane	--	--	--		15.2 U	13.9 U	16.6 U	13.9 U	14.9 U
delta-BHC	40	100000	250		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
Dieldrin	5	200	100		1.17 U	1.07 U	1.28 U	1.07 U	1.14 U
Endosulfan I	2400	24000	102000		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
Endosulfan II	2400	24000	102000		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
Endosulfan sulfate	2400	24000	1000000		0.78 U	0.711 U	0.851 U	0.713 U	0.763 U
Endrin ketone	--	--	--		1.87 U	1.71 U	2.04 U	1.71 U	1.83 U
Endrin	14	11000	60		0.78 U	0.711 U	0.851 U	0.713 U	0.763 U
gamma-BHC (Lindane)	100	1300	100		0.78 U	0.711 U	0.851 U	0.713 U	0.763 U
gamma-Chlordane	--	--	--		2.34 U	2.13 U	2.55 U	2.14 U	2.29 U
Heptachlor epoxide	--	--	--		3.51 U	3.2 U	3.83 U	3.21 U	3.43 U
Heptachlor	42	2100	380		0.936 U	0.853 U	1.02 U	0.856 U	0.916 U
Methoxychlor	--	--	--		3.51 U	3.2 U	3.83 U	3.21 U	3.43 U
Toxaphene	--	--	--		35.1 U	32 U	38.3 U	32.1 U	34.3 U

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DUP - Duplicate sample
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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-FN-08	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02
				Sample Date:	12/2/2013	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013
				Sample Depth (ft bls):	0-2	17-19	0-2	13-15	0-2	12.5-14.5
2,4,5-T	--	--	--		185 U	206 U	204 U	200 U	184 U	198 U
2,4,5-TP	3800	100000	3800		185 U	206 U	204 U	200 U	184 U	198 U
2,4-D	--	--	--		185 U	48.5 J	204 U	200 U	184 U	198 U
4,4'-DDD	3.3	13000	14000		1.68 U	1.96 U	1.61 J	1.98 U	1.79 U	1.96 U
4,4'-DDE	3.3	8900	17000		1.68 U	1.96 U	**20.8**	1.98 U	1.79 U	1.96 U
4,4'-DDT	3.3	7900	136000		3.14 U	3.67 U	**7.02**	3.72 U	3.36 U	3.68 U
Aldrin	5	97	190		1.68 U	1.96 U	1.95 U	1.98 U	1.79 U	1.96 U
alpha-BHC	20	480	20		0.698 U	0.816 U	0.814 U	0.827 U	0.747 U	0.818 U
alpha-Chlordane	94	4200	2900		2.09 U	2.45 U	2.44 U	2.48 U	2.24 U	2.45 U
beta-BHC	36	360	90		1.68 U	1.96 U	1.95 U	1.98 U	1.79 U	1.96 U
Chlordane	--	--	--		13.6 U	15.9 U	15.9 U	16.1 U	14.6 U	15.9 U
delta-BHC	40	100000	250		1.68 U	1.96 U	1.95 U	1.98 U	1.79 U	1.96 U
Dieldrin	5	200	100		1.05 U	1.22 U	1.22 U	1.24 U	1.12 U	1.23 U
Endosulfan I	2400	24000	102000		1.68 U	1.96 U	1.95 U	1.98 U	1.79 U	1.96 U
Endosulfan II	2400	24000	102000		1.68 U	1.96 U	1.95 U	1.98 U	2.24 PI	1.96 U
Endosulfan sulfate	2400	24000	1000000		0.698 U	0.816 U	0.814 U	0.827 U	0.747 U	0.818 U
Endrin ketone	--	--	--		1.68 U	1.96 U	1.95 U	1.98 U	1.79 U	1.96 U
Endrin	14	11000	60		0.698 U	0.816 U	0.814 U	0.827 U	0.747 U	0.818 U
gamma-BHC (Lindane)	100	1300	100		0.698 U	0.816 U	0.814 U	0.827 U	0.747 U	0.818 U
gamma-Chlordane	--	--	--		2.09 U	2.45 U	2.44 U	2.48 U	2.24 U	2.45 U
Heptachlor epoxide	--	--	--		3.14 U	3.67 U	3.66 U	3.72 U	3.36 U	3.68 U
Heptachlor	42	2100	380		0.838 U	0.979 U	0.977 U	0.992 U	0.896 U	0.982 U
Methoxychlor	--	--	--		3.14 U	3.67 U	3.66 U	3.72 U	3.36 U	3.68 U
Toxaphene	--	--	--		31.4 U	36.7 U	36.6 U	37.2 U	33.6 U	36.8 U

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DUP - Duplicate sample
µg/kg - Micrograms per kilogram
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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	SB-FN-03	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05	SB-FN-05
				Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/2/2013	12/19/2013
				Sample Depth (ft bls):	0-2	7-9	0-2	7-9	0-2	13-15
2,4,5-T	--	--	--		191 U	204 U	175 U	168 U	182 U	185 U
2,4,5-TP	3800	100000	3800		191 U	204 U	175 U	168 U	182 U	185 U
2,4-D	--	--	--		191 U	204 U	175 U	36.2 J	182 U	185 U
4,4'-DDD	3.3	13000	14000		**8.23 PI**	1.96	1.61 U	1.66 U	2.42 PI	1.76 U
4,4'-DDE	3.3	8900	17000		1.81 U	**12.1**	1.61 U	1.66 U	1.75 U	1.76 U
4,4'-DDT	3.3	7900	136000		**12.2 PI**	**3.41 J**	3.02 U	3.11 U	**6.98 PI**	3.29 U
Aldrin	5	97	190		1.81 U	1.96 U	1.61 U	1.66 U	1.75 U	1.76 U
alpha-BHC	20	480	20		0.754 U	0.815 U	0.671 U	0.691 U	0.731 U	0.731 U
alpha-Chlordane	94	4200	2900		2.26 U	2.45 U	2.01 U	2.07 U	2.19 U	2.19 U
beta-BHC	36	360	90		1.81 U	1.96 U	1.61 U	1.66 U	1.75 U	1.76 U
Chlordane	--	--	--		14.7 U	15.9 U	13.1 U	13.5 U	14.2 U	14.3 U
delta-BHC	40	100000	250		1.81 U	1.96 U	1.61 U	1.66 U	1.75 U	1.76 U
Dieldrin	5	200	100		1.13 U	1.22 U	1.01 U	1.04 U	1.1 U	1.1 U
Endosulfan I	2400	24000	102000		1.81 U	1.96 U	1.61 U	1.66 U	1.75 U	1.76 U
Endosulfan II	2400	24000	102000		1.81 U	1.96 U	1.61 U	1.66 U	1.51 J	1.76 U
Endosulfan sulfate	2400	24000	1000000		0.754 U	0.815 U	0.671 U	0.691 U	0.731 U	0.731 U
Endrin ketone	--	--	--		1.81 U	1.96 U	1.61 U	1.66 U	1.75 U	1.76 U
Endrin	14	11000	60		0.754 U	0.815 U	0.671 U	0.691 U	0.731 U	0.731 U
gamma-BHC (Lindane)	100	1300	100		0.754 U	0.815 U	0.671 U	0.691 U	0.731 U	0.731 U
gamma-Chlordane	--	--	--		2.26 U	2.45 U	2.01 U	2.07 U	2.19 U	2.19 U
Heptachlor epoxide	--	--	--		3.39 U	3.67 U	3.02 U	3.11 U	3.29 U	3.29 U
Heptachlor	42	2100	380		0.904 U	0.978 U	0.806 U	0.829 U	0.877 U	0.878 U
Methoxychlor	--	--	--		3.39 U	3.67 U	3.02 U	3.11 U	3.29 U	3.29 U
Toxaphene	--	--	--		33.9 U	36.7 U	30.2 U	31.1 U	32.9 U	32.9 U

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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	DUP-SB-FN-05	SB-FN-06	SB-FN-06	SB-FN-07	SB-FN-07
				Sample Date:	12/19/2013	12/2/2013	12/19/2013	12/2/2013	12/19/2013
				Sample Depth (ft bls):	13-15	0-2	7-9	0-2	15-17
2,4,5-T	--	--	--		178 U	181 U	198 U	184 U	180 U
2,4,5-TP	3800	100000	3800		178 U	181 U	198 U	184 U	180 U
2,4-D	--	--	--		178 U	181 U	198 U	184 U	180 U
4,4'-DDD	3.3	13000	14000		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
4,4'-DDE	3.3	8900	17000		1.67 U	1.72 U	1.9 U	2.79 PI	35.1 U
4,4'-DDT	3.3	7900	136000		3.13 U	**27.1**	3.55 U	**30.3**	65.9 U
Aldrin	5	97	190		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
alpha-BHC	20	480	20		0.696 U	0.718 U	0.79 U	0.727 U	14.6 U
alpha-Chlordane	94	4200	2900		2.09 U	2.16 U	2.37 U	2.18 U	43.9 U
beta-BHC	36	360	90		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
Chlordane	--	--	--		13.6 U	14 U	15.4 U	14.2 U	286 U
delta-BHC	40	100000	250		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
Dieldrin	5	200	100		1.04 U	1.08 U	1.18 U	1.09 U	22 U
Endosulfan I	2400	24000	102000		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
Endosulfan II	2400	24000	102000		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
Endosulfan sulfate	2400	24000	1000000		0.696 U	0.718 U	0.79 U	0.727 U	14.6 U
Endrin ketone	--	--	--		1.67 U	1.72 U	1.9 U	1.74 U	35.1 U
Endrin	14	11000	60		0.696 U	0.718 U	0.79 U	0.727 U	14.6 U
gamma-BHC (Lindane)	100	1300	100		0.696 U	0.718 U	0.79 U	0.727 U	14.6 U
gamma-Chlordane	--	--	--		2.09 U	2.16 U	2.37 U	2.18 U	43.9 U
Heptachlor epoxide	--	--	--		3.13 U	3.23 U	3.55 U	3.27 U	65.9 U
Heptachlor	42	2100	380		0.835 U	0.862 U	0.948 U	0.872 U	17.6 U
Methoxychlor	--	--	--		3.13 U	3.23 U	3.55 U	3.27 U	65.9 U
Toxaphene	--	--	--		31.3 U	32.3 U	35.5 U	32.7 U	659 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
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Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	DUP-SB-FN-07	SB-FN-08	SB-FN-08	MW-FS-01	MW-FS-01
				Sample Date:	12/19/2013	11/27/2013	12/19/2013	11/27/2013	12/5/2013
				Sample Depth (ft bls):	15-17	0-2	6-8	0-2	13-14
2,4,5-T	--	--	--		180 U	180 U	182 U	176 U	183 U
2,4,5-TP	3800	100000	3800		180 U	180 U	182 U	176 U	183 U
2,4-D	--	--	--		180 U	180 U	182 U	176 U	183 U
4,4'-DDD	3.3	13000	14000		34 U	1.73 U	1.68 U	1.69 U	1.83 U
4,4'-DDE	3.3	8900	17000		34 U	1.73 U	1.68 U	1.69 U	1.83 U
4,4'-DDT	3.3	7900	136000		63.7 U	3.24 U	3.15 U	3.17 U	3.42 U
Aldrin	5	97	190		34 U	1.73 U	1.68 U	1.69 U	1.83 U
alpha-BHC	20	480	20		14.2 U	0.72 U	0.7 U	0.704 U	0.761 U
alpha-Chlordane	94	4200	2900		42.5 U	2.16 U	2.1 U	2.11 U	2.28 U
beta-BHC	36	360	90		34 U	1.73 U	1.68 U	1.69 U	1.83 U
Chlordane	--	--	--		276 U	14 U	13.6 U	13.7 U	14.8 U
delta-BHC	40	100000	250		34 U	1.73 U	1.68 U	1.69 U	1.83 U
Dieldrin	5	200	100		21.2 U	1.08 U	1.05 U	1.06 U	1.14 U
Endosulfan I	2400	24000	102000		34 U	1.73 U	1.68 U	1.69 U	1.83 U
Endosulfan II	2400	24000	102000		34 U	1.73 U	1.68 U	1.69 U	1.83 U
Endosulfan sulfate	2400	24000	1000000		14.2 U	0.72 U	0.7 U	0.704 U	0.761 U
Endrin ketone	--	--	--		34 U	1.73 U	1.68 U	1.69 U	1.83 U
Endrin	14	11000	60		14.2 U	0.72 U	0.7 U	0.704 U	0.761 U
gamma-BHC (Lindane)	100	1300	100		14.2 U	0.72 U	0.7 U	0.704 U	0.761 U
gamma-Chlordane	--	--	--		42.5 U	2.16 U	2.1 U	2.11 U	2.28 U
Heptachlor epoxide	--	--	--		63.7 U	3.24 U	3.15 U	3.17 U	3.42 U
Heptachlor	42	2100	380		17 U	0.863 U	0.84 U	0.844 U	0.914 U
Methoxychlor	--	--	--		63.7 U	3.24 U	3.15 U	3.17 U	3.42 U
Toxaphene	--	--	--		637 U	32.4 U	31.5 U	31.7 U	34.2 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-FS-02 11/26/2013 0-2	MW-FS-02 12/2/2013 8-10	MW-FS-03 11/26/2013 0-2	MW-FS-03 12/3/2013 8.5-10.5	MW-FS-04 11/26/2013 0-2
2,4,5-T	--	--	--		182 U	186 U	177 U	196 U	174 U
2,4,5-TP	3800	100000	3800		182 U	186 U	177 U	196 U	174 U
2,4-D	--	--	--		182 U	186 U	177 U	196 U	174 U
4,4'-DDD	3.3	13000	14000		1.73 U	1.76 U	1.68 U	37 U	1.67 U
4,4'-DDE	3.3	8900	17000		1.73 U	1.76 U	0.631 J	37 U	1.67 U
4,4'-DDT	3.3	7900	136000		**8.38 PI**	3.3 U	1.98 J	69.5 U	3.13 U
Aldrin	5	97	190		1.73 U	1.76 U	1.68 U	37 U	1.67 U
alpha-BHC	20	480	20		0.722 U	0.732 U	0.701 U	15.4 U	0.695 U
alpha-Chlordane	94	4200	2900		2.16 U	2.2 U	2.1 U	46.3 U	2.08 U
beta-BHC	36	360	90		1.73 U	1.76 U	1.68 U	37 U	1.67 U
Chlordane	--	--	--		14.1 U	14.3 U	13.7 U	301 U	13.6 U
delta-BHC	40	100000	250		1.73 U	1.76 U	1.68 U	37 U	1.67 U
Dieldrin	5	200	100		1.08 U	1.1 U	1.05 U	23.2 U	1.04 U
Endosulfan I	2400	24000	102000		1.73 U	1.76 U	1.68 U	37 U	1.67 U
Endosulfan II	2400	24000	102000		1.73 U	1.76 U	1.68 U	37 U	1.67 U
Endosulfan sulfate	2400	24000	1000000		0.722 U	0.732 U	0.701 U	15.4 U	0.695 U
Endrin ketone	--	--	--		1.73 U	1.76 U	1.68 U	37 U	1.67 U
Endrin	14	11000	60		0.722 U	0.732 U	0.701 U	15.4 U	0.695 U
gamma-BHC (Lindane)	100	1300	100		0.722 U	0.732 U	0.701 U	15.4 U	0.695 U
gamma-Chlordane	--	--	--		2.16 U	2.2 U	2.1 U	46.3 U	2.08 U
Heptachlor epoxide	--	--	--		3.25 U	3.3 U	3.16 U	69.5 U	3.13 U
Heptachlor	42	2100	380		0.866 U	0.879 U	0.842 U	18.5 U	0.834 U
Methoxychlor	--	--	--		3.25 U	3.3 U	3.16 U	69.5 U	3.13 U
Toxaphene	--	--	--		32.5 U	33 U	31.6 U	695 U	31.3 U

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PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use Standards
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Restricted Residential Standards
Boxed data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater Standards

Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-FS-04 12/3/2013 7-8	SB-FS-01 11/27/2013 0-2	SB-FS-01 12/4/2013 10-11	SB-FS-02 12/4/2013 0-2	SB-FS-03 11/26/2013 0-2	SB-FS-03 12/3/2013 8-10
2,4,5-T	--	--	--		201 U	173 U	190 U	189 U	176 U	177 U
2,4,5-TP	3800	100000	3800		201 U	173 U	190 U	189 U	176 U	177 U
2,4-D	--	--	--		201 U	173 U	190 U	189 U	176 U	177 U
4,4'-DDD	3.3	13000	14000		1.87 U	0.782 J	1.8 U	1.77 U	1.66 U	33.4 U
4,4'-DDE	3.3	8900	17000		1.87 U	0.411 J	1.8 U	1.77 U	1.66 U	33.4 U
4,4'-DDT	3.3	7900	136000		3.51 U	1.65 J	3.38 U	3.32 U	2.13 J	**41 J**
Aldrin	5	97	190		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
alpha-BHC	20	480	20		0.779 U	0.686 U	0.751 U	0.739 U	0.693 U	13.9 U
alpha-Chlordane	94	4200	2900		2.34 U	2.06 U	2.25 U	2.22 U	2.08 U	41.8 U
beta-BHC	36	360	90		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
Chlordane	--	--	--		15.2 U	13.4 U	14.6 U	14.4 U	13.5 U	272 U
delta-BHC	40	100000	250		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
Dieldrin	5	200	100		1.17 U	1.03 U	1.13 U	1.11 U	1.04 U	20.9 U
Endosulfan I	2400	24000	102000		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
Endosulfan II	2400	24000	102000		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
Endosulfan sulfate	2400	24000	1000000		0.779 U	0.686 U	0.751 U	0.739 U	0.693 U	13.9 U
Endrin ketone	--	--	--		1.87 U	1.64 U	1.8 U	1.77 U	1.66 U	33.4 U
Endrin	14	11000	60		0.779 U	0.686 U	0.751 U	0.739 U	0.693 U	13.9 U
gamma-BHC (Lindane)	100	1300	100		0.779 U	0.686 U	0.751 U	0.739 U	0.693 U	13.9 U
gamma-Chlordane	--	--	--		2.34 U	2.06 U	2.25 U	2.22 U	2.08 U	41.8 U
Heptachlor epoxide	--	--	--		3.51 U	3.08 U	3.38 U	3.32 U	3.12 U	62.7 U
Heptachlor	42	2100	380		0.935 U	0.823 U	0.902 U	0.887 U	0.831 U	16.7 U
Methoxychlor	--	--	--		3.51 U	3.08 U	3.38 U	3.32 U	3.12 U	62.7 U
Toxaphene	--	--	--		35.1 U	30.8 U	33.8 U	33.2 U	31.2 U	627 U

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U - Indicates that the compound was analyzed for but not detected
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DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
-- No NYSDEC Part 375 Standards available
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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-01 12/4/2013 0-2	MW-ZA-01 12/10/2013 8-10	MW-ZA-02 12/4/2013 0-2	MW-ZA-02 12/6/2013 9-11	MW-ZA-03 12/4/2013 0-2
2,4,5-T	--	--	--		180 U	188 U	178 U	172 U	183 U
2,4,5-TP	3800	100000	3800		180 U	188 U	178 U	172 U	183 U
2,4-D	--	--	--		180 U	188 U	178 U	172 U	183 U
4,4'-DDD	3.3	13000	14000		1.7 U	1.78 U	2.48	1.56 U	1.75 U
4,4'-DDE	3.3	8900	17000		1.7 U	1.78 U	**3.48**	1.56 U	1.75 U
4,4'-DDT	3.3	7900	136000		3.19 U	3.34 U	2.37 J	2.93 U	3.27 U
Aldrin	5	97	190		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
alpha-BHC	20	480	20		0.708 U	0.743 U	0.715 U	0.652 U	0.728 U
alpha-Chlordane	94	4200	2900		13.5 PI	2.23 U	38.1 PI	1.96 U	2.18 U
beta-BHC	36	360	90		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
Chlordane	--	--	--		99.1 PI	14.5 U	298	12.7 U	14.2 U
delta-BHC	40	100000	250		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
Dieldrin	5	200	100		1.06 U	1.12 U	1.07 U	0.978 U	1.09 U
Endosulfan I	2400	24000	102000		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
Endosulfan II	2400	24000	102000		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
Endosulfan sulfate	2400	24000	1000000		0.708 U	0.743 U	0.715 U	0.652 U	0.728 U
Endrin ketone	--	--	--		1.7 U	1.78 U	1.72 U	1.56 U	1.75 U
Endrin	14	11000	60		0.708 U	0.743 U	0.715 U	0.652 U	0.728 U
gamma-BHC (Lindane)	100	1300	100		0.708 U	0.743 U	0.715 U	0.652 U	0.728 U
gamma-Chlordane	--	--	--		21.4 PI	2.23 U	47.2 PI	1.96 U	2.18 U
Heptachlor epoxide	--	--	--		1.37 J	3.34 U	10.2	2.93 U	3.27 U
Heptachlor	42	2100	380		0.85 U	0.892 U	0.858 U	0.782 U	0.873 U
Methoxychlor	--	--	--		3.19 U	3.34 U	3.22 U	2.93 U	3.27 U
Toxaphene	--	--	--		31.9 U	33.4 U	32.2 U	29.3 U	32.7 U

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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:**	MW-ZA-03	MW-ZA-03	SB-ZA-04	MW-ZA-04	SB-ZA-02	SB-ZA-02
				Sample Date:	12/4/2013	12/10/2013	12/4/2013	12/6/2013	12/4/2013	12/10/2013
				Sample Depth (ft bls):	4-5	7-9	0-2	9-10	0-2	10.5-12.5
2,4,5-T	--	--	--		227 U	195 U	175 U	195 U	182 U	187 U
2,4,5-TP	3800	100000	3800		227 U	195 U	175 U	195 U	182 U	187 U
2,4-D	--	--	--		227 U	195 U	175 U	195 U	182 U	187 U
4,4'-DDD	3.3	13000	14000		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
4,4'-DDE	3.3	8900	17000		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
4,4'-DDT	3.3	7900	136000		81 U	**13.2 PI**	31.4 U	3.38 U	3.32 U	3.22 U
Aldrin	5	97	190		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
alpha-BHC	20	480	20		18 U	0.788 U	6.98 U	0.752 U	0.738 U	0.715 U
alpha-Chlordane	94	4200	2900		54 U	2.36 U	63.8 PI	2.26 U	2.21 U	2.14 U
beta-BHC	36	360	90		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
Chlordane	--	--	--		351 U	15.4 U	136 U	14.7 U	14.4 U	13.9 U
delta-BHC	40	100000	250		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
Dieldrin	5	200	100		27 U	1.18 U	10.5 U	1.13 U	1.11 U	1.07 U
Endosulfan I	2400	24000	102000		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
Endosulfan II	2400	24000	102000		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
Endosulfan sulfate	2400	24000	1000000		18 U	0.788 U	6.98 U	0.752 U	0.738 U	0.715 U
Endrin ketone	--	--	--		43.2 U	1.89 U	16.8 U	1.8 U	1.77 U	1.72 U
Endrin	14	11000	60		18 U	0.788 U	6.98 U	0.752 U	0.738 U	0.715 U
gamma-BHC (Lindane)	100	1300	100		18 U	0.788 U	6.98 U	0.752 U	0.738 U	0.715 U
gamma-Chlordane	--	--	--		54 U	2.36 U	99.5 PI	2.26 U	2.21 U	2.14 U
Heptachlor epoxide	--	--	--		81 U	3.54 U	31.4 U	3.38 U	3.32 U	3.22 U
Heptachlor	42	2100	380		21.6 U	0.945 U	8.38 U	0.902 U	0.885 U	0.858 U
Methoxychlor	--	--	--		81 U	3.54 U	31.4 U	3.38 U	3.32 U	3.22 U
Toxaphene	--	--	--		810 U	35.4 U	314 U	33.8 U	33.2 U	32.2 U

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DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
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Table 6. Summary of Pesticides in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/kg)	NYSDEC Part 375 Unrestricted Use	NYSDEC Part 375 Restricted Residential	NYSDEC Part 375 Protection of Groundwater	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	SB-ZA-03 12/4/2013 0-2	SB-ZA-03 12/4/2013 4-5	SB-ZA-03 12/10/2013 5-6.5
2,4,5-T	--	--	--		171 U	181 U	171 U
2,4,5-TP	3800	100000	3800		171 U	181 U	171 U
2,4-D	--	--	--		171 U	181 U	171 U
4,4'-DDD	3.3	13000	14000		1.75 U	1.75 U	1.59 U
4,4'-DDE	3.3	8900	17000		**18.8**	1.75 U	1.59 U
4,4'-DDT	3.3	7900	136000		**4.9**	3.27 U	2.99 U
Aldrin	5	97	190		1.75 U	1.75 U	1.59 U
alpha-BHC	20	480	20		0.728 U	0.728 U	0.664 U
alpha-Chlordane	94	4200	2900		7.55 PI	2.18 U	1.99 U
beta-BHC	36	360	90		1.75 U	1.75 U	1.59 U
Chlordane	--	--	--		92	14.2 U	12.9 U
delta-BHC	40	100000	250		1.75 U	1.75 U	1.59 U
Dieldrin	5	200	100		1.09 U	1.09 U	0.995 U
Endosulfan I	2400	24000	102000		1.75 U	1.75 U	1.59 U
Endosulfan II	2400	24000	102000		1.75 U	1.75 U	1.59 U
Endosulfan sulfate	2400	24000	1000000		0.728 U	0.728 U	0.664 U
Endrin ketone	--	--	--		1.75 U	1.75 U	1.59 U
Endrin	14	11000	60		0.728 U	0.728 U	1.52 PI
gamma-BHC (Lindane)	100	1300	100		0.728 U	0.728 U	0.664 U
gamma-Chlordane	--	--	--		10.3	2.18 U	1.99 U
Heptachlor epoxide	--	--	--		1.44 J	3.27 U	2.99 U
Heptachlor	42	2100	380		0.874 U	0.873 U	0.796 U
Methoxychlor	--	--	--		3.28 U	3.27 U	2.99 U
Toxaphene	--	--	--		32.8 U	32.7 U	29.9 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
PI - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported
DUP - Duplicate sample
µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
NYSDEC - New York State Department of Environmental Conservation
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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	MW-AE-01 12/6/2013 0-2	MW-AE-01 12/18/2013 11-13	MW-AE-02 12/6/2013 0-2	MW-AE-02 12/13/2013 10-12	MW-AE-03 12/6/2013 0-2	MW-AE-03 12/13/2013 17-19
Arsenic	5		0.02 J	0.04 J	1 U	1 U	1 U	1 U
Barium	100		0.56	0.5	0.43 J	0.31 J	0.21 J	0.65
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.03 J	0.2 U	0.2 U	0.2 U
Lead	5		0.06 J	0.24 J	0.05 J	0.02 J	0.5 U	1.5
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/L - Milligrams per liter
USEPA - United States Environmental Protection Agency
TCLP - Toxicity Characteristic Leaching Procedure
USEPA Regulatory Levels - United States Environmental Protection Agency Limits for RCRA Characteristic Waste for Toxicity
RCRA - Resource Conservation and Recovery Act
Bold - Parameter was detected above USEPA Regulatory Limits

Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	MW-AE-04 12/5/2013 0-2	MW-AE-04 12/10/2013 12-14	MW-AE-05 12/6/2013 0-2	MW-AE-05 12/18/2013 18-20	SB-AE-01 12/6/2013 0-2	SB-AE-01 12/12/2013 7-9	SB-AE-02 12/5/2013 0-2
Arsenic	5		1 U	1 U	0.03 J	1 U	0.03 J	1 U	0.03 J
Barium	100		0.63	0.77	0.9	0.53	0.46 J	0.73	0.51
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.02 J	0.04 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	5		0.06 J	0.5 U	**14**	0.02 J	0.03 J	0.14 J	0.28 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

J - Estimated value
U - Indicates that the compound was analyzed for but not detected
DUP - Duplicate sample
mg/L - Milligrams per liter
USEPA - United States Environmental Protection Agency
TCLP - Toxicity Characteristic Leaching Procedure
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RCRA - Resource Conservation and Recovery Act
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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-AE-02 12/12/2013 13-15	SB-AE-03 12/6/2013 0-2	SB-AE-03 12/6/2013 2-3	SB-AE-04 12/6/2013 0-2	SB-AE-04 12/12/2013 5-7	MW-FN-01 12/4/2013 0-2	MW-FN-01 12/9/2013 10-12
Arsenic	5		1 U	1 U	0.03 J	0.02 J	0.04 J	1 U	1 U
Barium	100		0.14 J	0.58	0.75	0.9	0.58	0.2 J	0.25 J
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	5		0.05 J	0.32 J	0.14 J	0.56	0.12 J	0.5 U	0.07 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:**	MW-FN-02	MW-FN-02	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04
		Sample Date:	12/3/2013	12/9/2013	12/5/2013	12/13/2013	12/5/2013	12/9/2013
		Sample Depth (ft bls):	0-2	13-15	0-2	10-12	0-2	13-15
Arsenic	5		1 U	1 U	0.04 J	1 U	0.03 J	1 U
Barium	100		0.48 J	0.08 J	0.28 J	0.27 J	0.29 J	0.88
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.05 J	0.2 U	0.17 J	0.2 U
Lead	5		0.5 U	0.02 J	0.5 U	0.02 J	0.5 U	0.5 U
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.03 J	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:**	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07
		Sample Date:	12/3/2013	12/11/2013	12/3/2013	12/11/2013	12/2/2013	12/12/2013
		Sample Depth (ft bls):	0-2	11-13	0-2	21-23	0-2	7-9
Arsenic	5		1 U	1 U	1 U	1 U	1 U	1 U
Barium	100		0.33 J	0.33 J	0.33 J	0.11 J	0.37 J	0.78
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.04 J	0.2 U	0.04 J	0.2 U	0.2 U	0.02 J
Lead	5		0.5 U	0.5 U	0.04 J	0.5 U	0.05 J	0.03 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:**	MW-FN-08	MW-FN-08	SB-FN-01	SB-FN-01	SB-FN-02	SB-FN-02	SB-FN-03
		Sample Date:	12/2/2013	12/11/2013	12/3/2013	12/9/2013	12/5/2013	12/9/2013	12/3/2013
		Sample Depth (ft bls):	0-2	17-19	0-2	13-15	0-2	12.5-14.5	0-2
Arsenic	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Barium	100		0.35 J	0.18 J	0.42 J	0.23 J	0.23 J	0.16 J	0.65
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.03 J	0.2 U	0.2 U	0.2 U	0.02 J	0.2 U	0.2 U
Lead	5		0.1 J	0.11 J	0.03 J	0.03 J	0.5 U	0.5 U	0.06 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:**	SB-FN-03	SB-FN-04	SB-FN-04	SB-FN-05	SB-FN-05	DUP-SB-FN-05	SB-FN-06
		Sample Date:	12/9/2013	12/5/2013	12/9/2013	12/2/2013	12/19/2013	12/19/2013	12/2/2013
		Sample Depth (ft bls):	7-9	0-2	7-9	0-2	13-15	13-15	0-2
Arsenic	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Barium	100		0.28 J	0.12 J	0.6	0.44 J	0.45 J	0.62	0.39 J
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	5		0.5 U	0.5 U	0.2 J	0.13 J	0.5 U	0.5 U	0.06 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:**	SB-FN-06	SB-FN-07	SB-FN-07	DUP-SB-FN-07	SB-FN-08	SB-FN-08	MW-FS-01
		Sample Date:	12/19/2013	12/2/2013	12/19/2013	12/19/2013	11/27/2013	12/19/2013	11/27/2013
		Sample Depth (ft bls):	7-9	0-2	15-17	15-17	0-2	6-8	0-2
Arsenic	5		1 U	1 U	1 U	1 U	0.04 J	1 U	1 U
Barium	100		0.27 J	0.47 J	0.28 J	0.37 J	0.39 J	0.45 J	0.71
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.05 J	0.2 U	0.2 U
Lead	5		0.5 U	0.45 J	0.5 U	0.03 J	0.5 U	0.44 J	0.08 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	MW-FS-01 12/5/2013 13-14	MW-FS-02 11/26/2013 0-2	MW-FS-02 12/2/2013 8-10	MW-FS-03 11/26/2013 0-2	MW-FS-03 12/3/2013 8.5-10.5	MW-FS-04 11/26/2013 0-2	MW-FS-04 12/3/2013 7-8
Arsenic	5		0.04 J	1 U	1 U	1 U	1 U	0.02 J	1 U
Barium	100		3	0.25 J	0.62	0.55	1.4	0.18 J	1
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.07 J	0.2 U	0.2 U	0.2 U	0.04 J	0.2 U	0.2 U
Lead	5		0.5 U	0.5 U	0.03 J	0.09 J	0.92	0.5 U	0.5 U
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.04 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	SB-FS-01 11/27/2013 0-2	SB-FS-01 12/4/2013 10-11	SB-FS-02 12/4/2013 0-2	SB-FS-03 11/26/2013 0-2	SB-FS-03 12/3/2013 8-10	MW-ZA-01 12/4/2013 0-2	MW-ZA-01 12/10/2013 8-10
Arsenic	5		0.04 J	1 U	1 U	1 U	1 U	1 U	0.05 J
Barium	100		0.19 J	2.3	0.52	0.56	0.16 J	0.47 J	1.6
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2	0.04 J	0.2 U	0.02 J	0.2 U	0.2 U	0.2 U
Lead	5		0.5 U	0.5 U	0.06 J	0.5 U	0.5 U	0.1 J	0.5 U
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** **Sample Date:** **Sample Depth (ft bls):**	MW-ZA-02 12/4/2013 0-2	MW-ZA-02 12/6/2013 9-11	MW-ZA-03 12/4/2013 0-2	MW-ZA-03 12/4/2013 4-5	MW-ZA-03 12/10/2013 7-9	SB-ZA-04 12/4/2013 0-2
Arsenic	5		1 U	1 U	1 U	1 U	0.04 J	0.03 J
Barium	100		0.52	0.82	0.28 J	0.38 J	0.97	0.5
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	5		0.09 J	0.5 U	0.5 U	0.5 U	0.5 U	0.28 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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Table 7. Summary of TCLP Metals in Soil, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in mg/L)	USEPA Regulatory Levels (mg/L)	**Sample Designation:** / **Sample Date:** / **Sample Depth (ft bls):**	MW-ZA-04 12/6/2013 9-10	SB-ZA-02 12/4/2013 0-2	SB-ZA-02 12/10/2013 10.5-12.5	SB-ZA-03 12/4/2013 0-2	SB-ZA-03 12/4/2013 4-5	SB-ZA-03 12/10/2013 5-6.5
Arsenic	5		1 U	1 U	1 U	1 U	1 U	1 U
Barium	100		0.32 J	0.53	1.5	0.32 J	0.19 J	1.4
Cadmium	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Lead	5		0.22 J	0.07 J	0.5 U	0.5 U	0.02 J	0.03 J
Mercury	0.2		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Selenium	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	5		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

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U - Indicates that the compound was analyzed for but not detected
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Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U	3.4	3.6	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U	5 U
4-Ethyltoluene	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50		3.8 J	2.6 J	5 U	5 U	2.5 J	1.3 J
Acrylonitrile	5		5 U	5 U	5 U	5 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U	2 U	2 U	2 U	2 U
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
Bromodichloromethane	50		0.52	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50		2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7		**11**	1.6 J	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromomethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	0.76 J	2.5 U	2.5 U	2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	0.95 J	2.5 U	2.5 U	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5		2.5 U	0.91 J	2.5 U	2.5 U	2.5 U	2.5 U
tert-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
Tetrachloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	2.2 J	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	2.5 U	0.86 J	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U	250 U	250 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U	5 U	5 U	5 U	3 J
2-Hexanone	50		5 U	5 U	5 U	5 U	5 U	5 U
4-Ethyltoluene	--		2 U	2 U	2 U	0.88 J	2 U	2 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50		2 J	4.9 J	1.1 J	5 U	5 U	8.2
Acrylonitrile	5		5 U	5 U	5 U	5 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U	2 U	2 U	2 U	2 U
Benzene	1		0.5 U	0.29 J	0.5 U	**8.1**	0.5 U	**4.1**
Bromobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
Bromodichloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	50		2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7		2.5 U	2.5 U	2.5 U	1.3 J	2.5 U	4.3
Chloromethane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.87 J
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromomethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U	5 U	5 U	5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5		2.5 U	2.5 U	2.5 U	**7**	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	2.5 U	2.5 U	1.8 J	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	2.5 U	2.5 U	**6.2**	2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.73 J
Naphthalene	10		2.5 U	2.5 U	2.5 U	**72**	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	2.5 U	2.5 U	0.72 J	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	2.5 U	2.5 U	3.1	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
tert-Butylbenzene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
Tetrachloroethene	5		0.5 U	0.28 J	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	5		2.5 U	2.5 U	2.5 U	**5.7**	2.5 U	0.87 J
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
1,1,1,2-Tetrachloroethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	15 U	1.5 U	15 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	**12 J**	2 U	**12 J**	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	**120**	2.5 U	**87**	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	20 U	2 U	20 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	10 U	1 U	10 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	**16 J**	2.5 U	25 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	2500 U	250 U	2500 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	50 U	5 U	50 U	5 U	5 U
2-Hexanone	50		5 U	50 U	5 U	50 U	5 U	5 U
4-Ethyltoluene	--		2 U	140	2 U	20 U	2 U	2 U
4-Methyl-2-pentanone (MIBK)	--		5 U	50 U	5 U	50 U	5 U	5 U
Acetone	50		5 U	50 U	1.9 J	24 J	2.5 J	2.6 J
Acrylonitrile	5		5 U	50 U	5 U	50 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	22	2 U	17 J	2 U	2 U
Benzene	1		0.5 U	**97**	0.5 U	**3.6 J**	0.37 J	0.47 J
Bromobenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
Bromodichloromethane	50		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
Bromoform	50		2 U	20 U	2 U	20 U	2 U	2 U
Bromomethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	50 U	5 U	50 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Chloroform	7		2.5 U	25 U	2.5 U	25 U	0.77 J	2.5 U
Chloromethane	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Dibromomethane	5		5 U	50 U	5 U	50 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	50 U	5 U	50 U	5 U	5 U
Diethyl Ether	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Ethylbenzene	5		2.5 U	**190**	2.5 U	**22 J**	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	**58**	2.5 U	**10 J**	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	**350**	2.5 U	25 U	2.5 U	2.5 U
Methylene chloride	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
MTBE	10		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Naphthalene	10		2.5 U	**590**	2.5 U	**120**	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	**12 J**	2.5 U	**14 J**	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	**250**	2.5 U	**8.5 J**	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	25 U	2.5 U	**16 J**	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Styrene	5		2.5 U	**13 J**	2.5 U	25 U	2.5 U	2.5 U
tert-Butylbenzene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
Tetrachloroethene	5		0.5 U	5 U	0.5 U	5 U	0.2 J	0.34 J
Toluene	5		2.5 U	**140**	2.5 U	25 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Trichloroethene	5		0.5 U	5 U	0.5 U	5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	25 U	2.5 U	25 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	50 U	5 U	50 U	5 U	5 U
Vinyl chloride	2		1 U	10 U	1 U	10 U	1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5		3.4	2.5 U	25 U	12 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U	15 U	7.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		0.99 J	0.82 J	20 U	10 U	2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		4.4	3.3	25 U	**7.3 J**	2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U	20 U	10 U	2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U	10 U	5 U	1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U	2500 U	1200 U	250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U	50 U	25 U	1.3 J	2.6 J
2-Hexanone	50		5 U	5 U	50 U	25 U	5 U	5 U
4-Ethyltoluene	--		2 U	2.1	20 U	4.1 J	2 U	2 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U	50 U	25 U	5 U	5 U
Acetone	50		3.3 J	1.4 J	11 J	21 J	1.1 J	1.6 J
Acrylonitrile	5		5 U	5 U	50 U	25 U	5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	0.74 J	20 U	10 U	2 U	2 U
Benzene	1		**2.6**	**2.9**	5 U	2.5 U	0.5 U	0.5 U
Bromobenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
Bromodichloromethane	50		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Bromoform	50		2 U	2 U	20 U	10 U	2 U	2 U
Bromomethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U	50 U	25 U	5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Chloroform	7		1.2 J	2.5 U	25 U	12 U	2.5 U	2.5 U
Chloromethane	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Dibromomethane	5		5 U	5 U	50 U	25 U	5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U	50 U	25 U	5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Ethylbenzene	5		1.9 J	3.2	25 U	12 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Isopropylbenzene	5		**8**	**5.2**	25 U	**7.6 J**	2.5 U	2.5 U
m+p-Xylene	5		2.5 U	2 J	25 U	12 U	2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Naphthalene	10		1.1 J	3.7	25 U	**12**	2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
n-Propylbenzene	5		0.71 J	0.8 J	25 U	12 U	2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
o-Xylene	5		2.5 U	3.7	25 U	12 U	2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Styrene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
tert-Butylbenzene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
Tetrachloroethene	5		1.5	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Toluene	5		2.5 U	0.96 J	25 U	12 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U	5 U	2.5 U	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Trichloroethene	5		0.17 J	0.5 U	5 U	2.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U	25 U	12 U	2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U	50 U	25 U	5 U	5 U
Vinyl chloride	2		1 U	1 U	10 U	5 U	1 U	1 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 12/19/2013	TRIP BLANK 12/20/2013
1,1,1,2-Tetrachloroethane	5		2.5 U	2.5 U
1,1,1-Trichloroethane	5		2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5		0.5 U	0.5 U
1,1,2-Trichloroethane	1		1.5 U	1.5 U
1,1-Dichloroethane	5		2.5 U	2.5 U
1,1-Dichloroethene	5		0.5 U	0.5 U
1,1-Dichloropropene	5		2.5 U	2.5 U
1,2,3-Trichlorobenzene	5		2.5 U	2.5 U
1,2,3-Trichloropropane	0.04		2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5		2 U	2 U
1,2,4-Trichlorobenzene	5		2.5 U	2.5 U
1,2,4-Trimethylbenzene	5		2.5 U	2.5 U
1,2-Dibromoethane	--		2 U	2 U
1,2-Dichlorobenzene	3		2.5 U	2.5 U
1,2-Dichloroethane	0.6		0.5 U	0.5 U
1,2-Dichloropropane	1		1 U	1 U
1,3,5-Trimethylbenzene	5		2.5 U	2.5 U
1,3-Dichlorobenzene	3		2.5 U	2.5 U
1,3-Dichloropropane	5		2.5 U	2.5 U
1,4-Dichlorobenzene	3		2.5 U	2.5 U
1,4-Dioxane	--		250 U	250 U
2,2-Dichloropropane	5		2.5 U	2.5 U
2-Butanone (MEK)	50		5 U	5 U
2-Hexanone	50		5 U	5 U
4-Ethyltoluene	--		2 U	2 U
4-Methyl-2-pentanone (MIBK)	--		5 U	5 U
Acetone	50		1.4 J	5 U
Acrylonitrile	5		5 U	5 U
BENZENE, 1,4-DIETHYL	-		2 U	2 U
Benzene	1		0.5 U	0.5 U
Bromobenzene	5		2.5 U	2.5 U
Bromochloromethane	5		2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 12/19/2013	TRIP BLANK 12/20/2013
Bromodichloromethane	50		0.5 U	0.5 U
Bromoform	50		2 U	2 U
Bromomethane	5		2.5 U	2.5 U
Carbon disulfide	60		5 U	5 U
Carbon tetrachloride	5		0.5 U	0.5 U
Chlorobenzene	5		2.5 U	2.5 U
Chloroethane	5		2.5 U	2.5 U
Chloroform	7		2.5 U	2.5 U
Chloromethane	--		2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U
cis-1,3-Dichloropropene	5		0.5 U	0.5 U
Dibromochloromethane	50		0.5 U	0.5 U
Dibromochloropropane	--		2.5 U	2.5 U
Dibromomethane	5		5 U	5 U
Dichlorodifluoromethane	5		5 U	5 U
Diethyl Ether	--		2.5 U	2.5 U
Ethylbenzene	5		2.5 U	2.5 U
Hexachlorobutadiene	0.5		2.5 U	2.5 U
Isopropylbenzene	5		2.5 U	2.5 U
m+p-Xylene	5		2.5 U	2.5 U
Methylene chloride	5		2.5 U	2.5 U
MTBE	10		2.5 U	2.5 U
Naphthalene	10		2.5 U	2.5 U
n-Butylbenzene	5		2.5 U	2.5 U
n-Propylbenzene	5		2.5 U	2.5 U
o-Chlorotoluene	--		2.5 U	2.5 U
o-Xylene	5		2.5 U	2.5 U
p-Chlorotoluene	--		2.5 U	2.5 U
p-Isopropyltoluene	5		2.5 U	2.5 U
sec-Butylbenzene	5		2.5 U	2.5 U
Styrene	5		2.5 U	2.5 U
tert-Butylbenzene	5		2.5 U	2.5 U

Table 8. Summary of Volatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	TRIP BLANK 12/19/2013	TRIP BLANK 12/20/2013
Tetrachloroethene	5		0.5 U	0.5 U
Toluene	5		2.5 U	2.5 U
trans-1,2-Dichloroethene	5		2.5 U	2.5 U
trans-1,3-Dichloropropene	--		0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	--		2.5 U	2.5 U
Trichloroethene	5		0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	2.5 U
Vinyl acetate	--		5 U	5 U
Vinyl chloride	2		1 U	1 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
1,1'-Biphenyl	--		2 U	2 U	2 U	2 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--		2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--		0.2 U	0.2 U	0.2 U	0.2 U	0.11 J	0.2 U
2-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20		0.08 J	0.2 U	0.2 U	0.2 U	0.11 J	0.07 J
Acenaphthylene	20		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
Acetophenone	--		5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50		0.2 U	0.2 U	0.2 U	0.2 U	0.08 J	0.2 U
Benzo[a]anthracene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo[a]pyrene	0		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo[b]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo[g,h,i]perylene	--		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo[k]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzoic Acid	--		50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	1.9 J	3 U	3 U	3 U	3 U
Butylbenzyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--		2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzo[a,h]anthracene	--		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	--		2 U	2 U	2 U	2 U	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octyl phthalate	--		5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50		0.05 J	0.2 U	0.06 J	0.2 U	0.05 J	0.06 J
Fluorene	50		0.06 J	0.2 U	0.2 U	0.2 U	0.09 J	0.2 U
Hexachlorobenzene	0.04		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno[1,2,3-cd]pyrene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isophorone	50		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10		0.16 J	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U
Nitrobenzene	0.4		2 U	2 U	2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	5 U	5 U	5 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	50		0.27	0.09 J	0.09 J	0.2 U	0.5	0.2 U
Phenol	1		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50		0.2 U	0.2 U	0.2 U	0.2 U	0.07 J	0.07 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
1,1'-Biphenyl	--		2 U	2 U	2 U	3.6	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	--		2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--		0.2 U	0.2 U	0.2 U	18	0.2 U	0.08 J
2-Methylphenol	--		5 U	5 U	5 U	1.7 J	5 U	0.71 J
2-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20		0.2 U	0.07 J	0.2 U	12	0.2 U	0.09 J
Acenaphthylene	20		0.2 U	0.2 U	0.2 U	8.8	0.2 U	0.2 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
Acetophenone	--		5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50		0.2 U	0.2 U	0.2 U	5.5	0.2 U	0.21
Benzo[a]anthracene	0.002		0.2 U	0.2 U	0.2 U	**0.32**	**0.12 J**	0.2 U
Benzo[a]pyrene	0		0.2 U	0.2 U	0.2 U	0.2 U	**0.14 J**	0.2 U
Benzo[b]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	**0.17 J**	0.2 U
Benzo[g,h,i]perylene	--		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo[k]fluoranthene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzoic Acid	--		50 U	50 U	50 U	50 U	50 U	8.9 J
Benzyl Alcohol	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	3 U	3 U	1.6 J	1.1 J	3.3
Butylbenzyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--		2 U	2 U	2 U	12	2 U	2 U
Chrysene	0.002		0.2 U	0.2 U	0.2 U	**0.23**	**0.11 J**	0.2 U
Dibenzo[a,h]anthracene	--		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	--		2 U	2 U	2 U	7	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	5 U	5 U	1.8 J
Di-n-octyl phthalate	--		5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50		0.2 U	0.07 J	0.2 U	4.2	0.31	0.13 J
Fluorene	50		0.2 U	0.2 U	0.2 U	9.2	0.2 U	0.2 U
Hexachlorobenzene	0.04		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno[1,2,3-cd]pyrene	0.002		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isophorone	50		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10		0.2 U	0.07 J	0.2 U	**73 E**	0.2 U	0.18 J
Nitrobenzene	0.4		2 U	2 U	2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	5 U	5 U	5 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1		0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	50		0.2 U	0.18 J	0.2 U	20 E	0.11 J	0.2
Phenol	1		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50		0.2 U	0.06 J	0.2 U	3.2	0.26	0.11 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
1,1'-Biphenyl	--		2 U	2 U	2 U	10 U	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	50 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	25 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	10 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	10 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	10 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	10 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	25 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	25 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	25 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	5 U	25 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	100 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	25 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	25 U	5 U	5 U
2-Chloronaphthalene	10		0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U
2-Chlorophenol	--		2 U	2 U	2 U	10 U	2 U	2 U
2-Methylnaphthalene	--		0.2 U	100 E	0.2 U	63	0.2 U	0.2 U
2-Methylphenol	--		5 U	5 U	5 U	25 U	5 U	5 U
2-Nitroaniline	5		5 U	5 U	5 U	25 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	50 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	25 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	25 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	25 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	50 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	10 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	10 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	25 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	10 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	25 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	50 U	10 U	10 U
Acenaphthene	20		0.16 J	**39**	0.2 U	13	0.2	0.18 J
Acenaphthylene	20		0.08 J	4.7	0.2 U	1.4	0.2 U	0.2 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
Acetophenone	--		5 U	5 U	5 U	25 U	5 U	5 U
Anthracene	50		0.16 J	4.5	0.2 U	1.2	0.22	0.21
Benzo[a]anthracene	0.002		**0.2**	**0.2**	0.2 U	1 U	0.2 U	0.2 U
Benzo[a]pyrene	0		**0.21**	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Benzo[b]fluoranthene	0.002		**0.26**	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Benzo[g,h,i]perylene	--		0.15 J	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Benzo[k]fluoranthene	0.002		**0.11 J**	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Benzoic Acid	--		50 U	50 U	50 U	250 U	50 U	50 U
Benzyl Alcohol	--		2 U	2 U	2 U	10 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	25 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	10 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	3 U	3 U	15 U	3 U	3 U
Butylbenzyl phthalate	50		5 U	5 U	5 U	25 U	5 U	5 U
Carbazole	--		2 U	2.2	2 U	10 U	2 U	2 U
Chrysene	0.002		**0.19 J**	**0.22**	0.2 U	1 U	0.2 U	0.2 U
Dibenzo[a,h]anthracene	--		0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Dibenzofuran	--		2 U	2 U	2 U	10 U	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	25 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	25 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	25 U	5 U	5 U
Di-n-octyl phthalate	--		5 U	5 U	5 U	25 U	5 U	5 U
Fluoranthene	50		0.53	0.79	0.2 U	0.34 J	0.2 U	0.2 U
Fluorene	50		0.16 J	11	0.2 U	7.4	0.08 J	0.07 J
Hexachlorobenzene	0.04		0.8 U	0.8 U	0.8 U	4 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5		0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	100 U	20 U	20 U
Hexachloroethane	5		0.8 U	0.8 U	0.8 U	4 U	0.8 U	0.8 U
Indeno[1,2,3-cd]pyrene	0.002		**0.18 J**	0.2 U	0.2 U	1 U	0.2 U	0.2 U
Isophorone	50		5 U	5 U	5 U	25 U	5 U	5 U
Naphthalene	10		0.2 U	**210 E**	0.2 U	**98**	0.07 J	0.2 U
Nitrobenzene	0.4		2 U	2 U	2 U	10 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	25 U	5 U	5 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	10 U	2 U	2 U
Pentachlorophenol	1		0.8 U	0.8 U	0.8 U	4 U	0.8 U	0.8 U
Phenanthrene	50		0.35	41 E	0.2 U	17	0.1 J	0.12 J
Phenol	1		5 U	5 U	5 U	25 U	5 U	5 U
Pyrene	50		0.41	1.3	0.2 U	0.47 J	0.23	0.22

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
1,1'-Biphenyl	--		2 U	2 U	2 U	2.9	2 U	2 U
1,2,4,5-Tetrachlorobenzene	--		10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3		2 U	2 U	2 U	2 U	2 U	2 U
2,2'-oxybis (1-chloropropane)	5		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	--		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50		5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10		20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10		0.4 U	5 U	1 U	1 U	0.2 U	0.2 U
2-Chlorophenol	--		2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	--		0.4 U	44	3.8	3.1	0.2 U	0.2 U
2-Methylphenol	--		5 U	1.4 J	5 U	5 U	5 U	5 U
2-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
3&4-Methylphenol	--		5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5		5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	--		10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-methylphenol	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl phenyl ether	--		2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5		5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	--		10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20		19	**54**	11	**130 E**	0.2 U	0.2 U
Acenaphthylene	20		0.64	5 U	0.72 J	10	0.2 U	0.2 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
Acetophenone	--		5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50		3.8	10	2.8	23	0.2 U	0.2 U
Benzo[a]anthracene	0.002		**0.27 J**	5 U	**0.58 J**	**6**	0.2 U	0.2 U
Benzo[a]pyrene	0		0.4 U	5 U	1 U	**2.8**	0.2 U	0.2 U
Benzo[b]fluoranthene	0.002		0.4 U	5 U	1 U	**2.5**	0.2 U	0.2 U
Benzo[g,h,i]perylene	--		0.4 U	5 U	1 U	1.1	0.2 U	0.2 U
Benzo[k]fluoranthene	0.002		0.4 U	5 U	1 U	**0.92 J**	0.2 U	0.2 U
Benzoic Acid	--		50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-chloroethoxy)methane	5		5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl) ether	--		2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-ethylhexyl) phthalate	5		3 U	3 U	3 U	3 U	3 U	3 U
Butylbenzyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Carbazole	--		2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002		**0.29 J**	5 U	**0.7 J**	**7.4**	0.2 U	0.2 U
Dibenzo[a,h]anthracene	--		0.4 U	5 U	1 U	0.94 J	0.2 U	0.2 U
Dibenzofuran	--		2 U	2 U	2 U	2 U	2 U	2 U
Diethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-butyl phthalate	50		5 U	5 U	5 U	5 U	5 U	5 U
Di-n-octyl phthalate	--		5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50		0.82	1.2 J	0.71 J	6.7	0.2 U	0.2 U
Fluorene	50		5.3	17	2.6	20	0.2 U	0.2 U
Hexachlorobenzene	0.04		1.6 U	20 U	4 U	4 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5		1 U	12 U	2.5 U	2.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5		20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5		1.6 U	20 U	4 U	4 U	0.8 U	0.8 U
Indeno[1,2,3-cd]pyrene	0.002		0.4 U	5 U	1 U	**1.3**	0.2 U	0.2 U
Isophorone	50		5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10		0.84	1.8 J	1.2	**29**	0.11 J	0.2 U
Nitrobenzene	0.4		2 U	2 U	2 U	2 U	2 U	2 U
n-Nitrosodi-n-propylamine	--		5 U	5 U	5 U	5 U	5 U	5 U

Table 9. Summary of Semivolatile Organic Compounds in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
n-Nitrosodiphenylamine	50		2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	1		1.6 U	20 U	4 U	4 U	0.8 U	0.8 U
Phenanthrene	50		24	**68**	22	**120 E**	0.2 U	0.2 U
Phenol	1		5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50		1.5	2 J	1.6	16	0.2 U	0.2 U

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-01 12/20/2013 Dissolved	MW-AE-02 12/20/2013	MW-AE-02 12/20/2013 Dissolved	MW-AE-03 12/20/2013	MW-AE-03 12/20/2013 Dissolved
Aluminum	--		987	647	105	15.2	178	10.1
Antimony	3		1.36	1.24	0.49 J	0.63 J	2.77	2.92
Arsenic	25		4.31	4.02	1.55	1.48	1.87	1.87
Barium	1000		24.29	20.32	32.79	31.06	54.44	51.63
Beryllium	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.15 J	0.09 J
Calcium	--		36700	31800	21200	20400	90500	84800
Chromium	50		4.82	3.02	0.89 J	0.64 J	1.73	1.03
Cobalt	--		0.29 J	0.5 U	0.31 J	0.22 J	0.32 J	0.2 J
Copper	200		3.97	2	1.32	0.82 J	2.77	0.9 J
Iron	300		**518**	154	**302**	145	**563**	296
Lead	25		4.68	0.23 J	1.17	0.23 J	13	0.97 J
Magnesium	--		1070	1020	2710	2710	11200	10500
Manganese	300		14.52	1.51	59.56	58.08	19.22	15.69
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.18 J	0.2 U
Nickel	100		1.38	0.62	1.85	1.43	1.56	1.13
Potassium	--		9160	8110	5730	5780	7300	6960
Selenium	10		1.99 J	1.72 J	0.78 J	0.82 J	2.85 J	2.42 J
Silver	50		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	20000		**32000**	**28800**	**25900**	**25600**	**106000**	**97300**
Thallium	0.5		0.5 U	0.5 U	0.5 U	0.5 U	0.07 J	0.06 J
Vanadium	--		12.64	9.44	1.25 J	0.95 J	1.97 J	1.38 J
Zinc	2000		14.32	7.51 J	2.27 J	12.88	66.29	54.22

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-04 12/20/2013	MW-AE-04 12/20/2013 Dissolved	MW-AE-05 12/20/2013	MW-AE-05 12/20/2013 Dissolved	MW-FN-01 12/20/2013	MW-FN-01 12/20/2013 Dissolved
Aluminum	--		324	20 U	3280	4.82 J	2010	275
Antimony	3		**3.09**	**3.22**	1.45	0.57 J	2.26	2.13
Arsenic	25		2.94	2.73	6.33	2.42	4.26	3.28
Barium	1000		158	156.6	439.9	280.4	92.52	52.78
Beryllium	3		1 U	1 U	0.2 J	0.5 U	0.16 J	0.5 U
Cadmium	5		0.4 U	0.16 J	0.22	0.2 U	0.05 J	0.2 U
Calcium	--		187000	180000	212000	201000	43100	29200
Chromium	50		2.57	2.54	8.85	1.3	5.46	1.78
Cobalt	--		0.53 J	0.28 J	4.48	1.91	1.44	0.37 J
Copper	200		4.1	1.46 J	27.27	0.47 J	7.92	1.85
Iron	300		**1120**	**633**	**43500**	**20200**	**3310**	**485**
Lead	25		7.61	2 U	**281.2**	1 U	**31.06**	4.6
Magnesium	--		39100	40500	31000	28700	13500	10500
Manganese	300		19.71	10.43	**2764**	**2623**	99.27	52.79
Mercury	0.7		0.2 U	0.2 U	0.35	0.2 U	0.07 J	0.2 U
Nickel	100		2.67	1.99	7.5	2.05	5.16	2.1
Potassium	--		24600	23900	43600	42800	12500	10600
Selenium	10		6.61 J	6.4 J	3.05 J	2.73 J	1.85 J	1.57 J
Silver	50		0.8 U	0.8 U	0.11 J	0.4 U	0.22 J	0.1 J
Sodium	20000		**418000**	**393000**	**113000**	**113000**	**204000**	**170000**
Thallium	0.5		0.08 J	0.06 J	0.06 J	0.5 U	0.1 J	0.03 J
Vanadium	--		3.42 J	2.88 J	10.67	0.28 J	7.64	3.24 J
Zinc	2000		42.12	30.1	86.22	14.25	29.34	5.25 J

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-02	MW-FN-03	MW-FN-03	MW-FN-04	MW-FN-04
		Sample Date:	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved
Aluminum	--		200 U	200 U	656	7.72 J	51.9	13.2
Antimony	3		20 U	20 U	1.57 J	1.64 J	2.2	2.29
Arsenic	25		14.44	12.74	3.63	2.78	2.35	2.29
Barium	1000		27.16	25.5	219	209.6	74.84	77.05
Beryllium	3		10 U	10 U	1 U	1 U	0.5 U	0.5 U
Cadmium	5		4 U	4 U	0.4 U	0.4 U	0.2 U	0.2 U
Calcium	--		291000	278000	397000	360000	67600	63800
Chromium	50		20 U	4.32 J	4.37	0.77 J	10.1	10.16
Cobalt	--		10 U	10 U	1.26	0.79 J	0.14 J	0.13 J
Copper	200		6.65 J	7.43 J	1.84 J	1.02 J	2.71	1.91
Iron	300		**1410**	**1720**	**2260**	**1260**	245	238
Lead	25		20 U	20 U	0.62 J	2 U	0.48 J	1 U
Magnesium	--		798000	789000	47200	44800	8230	8310
Manganese	300		7.46 J	9.94 J	194.2	151.5	13.53	12.62
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		5.45 J	5.43 J	4.1	2.79	0.98	0.84
Potassium	--		245000	248000	64600	62700	29200	29400
Selenium	10		**49.5 J**	**50.1 J**	6.74 J	6.39 J	3.56 J	3.3 J
Silver	50		8 U	8 U	0.8 U	0.8 U	0.4 U	0.25 U
Sodium	20000		**6890000**	**6980000**	**169000**	**161000**	**81500**	**80600**
Thallium	0.5		10 U	10 U	1 U	1 U	0.06 J	0.07 J
Vanadium	--		100 U	100 U	215.4	208.2	69.13	69.21
Zinc	2000		40.34 J	39.34 J	6.88 J	8.51 J	10.84	10.74

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-05	MW-FN-05	MW-FN-06	MW-FN-06	MW-FN-07	MW-FN-07
		Sample Date:	12/18/2013	12/18/2013 Dissolved	12/18/2013	12/18/2013 Dissolved	12/20/2013	12/20/2013 Dissolved
Aluminum	--		79.9 J	100 U	31.9 J	100 U	16800	53.8
Antimony	3		1.85 J	1.97 J	**4.42 J**	**4.8 J**	1.1	1.67
Arsenic	25		12.77	10.14	13.63	10.26	7.32	2.99
Barium	1000		187.5	179.6	17.12	15.33	437.1	90.84
Beryllium	3		5 U	5 U	5 U	5 U	0.53	0.5 U
Cadmium	5		2 U	2 U	2 U	2 U	0.1 J	0.2 U
Calcium	--		418000	399000	280000	256000	94800	80200
Chromium	50		2.34 J	2.51 J	2.81 J	2.6 J	**136.3**	3.75
Cobalt	--		5 U	5 U	5 U	1.08 J	14.59	0.77
Copper	200		4.61 J	3.67 J	7.65 J	7.8 J	40.3	0.44 J
Iron	300		**1700**	**1530**	**1140**	**968**	**26000**	**392**
Lead	25		10 U	10 U	10 U	10 U	**46.81**	0.22 J
Magnesium	--		564000	551000	874000	815000	29600	19700
Manganese	300		148.1	140.1	6.53	4.66 J	**608.1**	**321.5**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.08 J	0.2 U
Nickel	100		4.95 J	4.14 J	4.5 J	4.24 J	73.4	4.25
Potassium	--		218000	213000	252000	232000	35400	28200
Selenium	10		**33.4 J**	**31.3 J**	**47.2 J**	**36.2 J**	3.47 J	2.94 J
Silver	50		4 U	4 U	1.82 J	2.16 J	0.14 J	0.4 U
Sodium	20000		**5510000**	**5100000**	**7220000**	**6680000**	**302000**	**301000**
Thallium	0.5		5 U	5 U	5 U	**0.76 J**	0.41 J	0.5 U
Vanadium	--		5.94 J	6.04 J	1.19 J	1.83 J	63.84	3.81 J
Zinc	2000		18.37 J	17.75 J	25.87 J	26.04 J	109.8	6.49 J

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FN-08	MW-FS-01	MW-FS-01	MW-FS-02	MW-FS-02
		Sample Date:	12/18/2013	12/18/2013 Dissolved	12/18/2013	12/18/2013 Dissolved	12/19/2013	12/19/2013 Dissolved
Aluminum	--		52.9 J	100 U	51600	154	88.4 J	200 U
Antimony	3		1.27 J	1.07 J	1.02 J	1.02 J	2.55 J	20 U
Arsenic	25		12.34	12.64	6.95	1.72	12.85	12.14
Barium	1000		34.79	32.04	**2238**	617.2	40.24	39.36
Beryllium	3		5 U	5 U	5 U	1 U	10 U	10 U
Cadmium	5		2 U	2 U	2 U	0.4 U	4 U	4 U
Calcium	--		295000	278000	218000	168000	284000	270000
Chromium	50		3.2 J	2.75 J	**169.8**	3.55	20 U	4.37 J
Cobalt	--		5 U	5 U	47.41	1.95	2.23 J	2.33 J
Copper	200		8.24 J	7.24 J	**251.7**	1.32 J	7.98 J	7.57 J
Iron	300		**1210**	**1050**	**99300**	**4640**	**1460**	**1710**
Lead	25		3.05 J	10 U	**171.6**	0.61 J	5.42 J	20 U
Magnesium	--		840000	818000	110000	61100	787000	776000
Manganese	300		16.98	14.99	**5332**	**3368**	19.38 J	20.44
Mercury	0.7		0.2 U	0.2 U	0.14 J	0.2 U	0.2 U	0.2 U
Nickel	100		5.9 J	5.55	60.59	3.5	7.37 J	7.52 J
Potassium	--		255000	240000	46800	24400	241000	240000
Selenium	10		**44.7 J**	**44.9 J**	4.01 J	4.08 J	**43 J**	**45.7 J**
Silver	50		4 U	4 U	4 U	0.8 U	8 U	8 U
Sodium	20000		**7430000**	**6480000**	**565000**	**469000**	**6750000**	**6620000**
Thallium	0.5		5 U	5 U	**0.9 J**	1 U	10 U	10 U
Vanadium	--		4.24 J	3.31 J	272.3	2.25 J	100 U	2 J
Zinc	2000		35.18 J	34.83 J	245.9	8.05 J	31.54 J	29.96 J

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Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FS-03	MW-FS-03	MW-FS-04	MW-FS-04	DUP-MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved
Aluminum	--		4400	20.1 J	748	3.5 J	995	4.68 J
Antimony	3		1.91 J	0.73 J	0.21 J	0.2 J	0.16 J	0.22 J
Arsenic	25		5.16	2.52	0.73	0.81	0.93	0.98
Barium	1000		356.6	243	166.7	150.2	163.5	143.6
Beryllium	3		2.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	5		1 U	0.8 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	--		278000	243000	85800	81800	91700	80400
Chromium	50		23.38	1.88 J	2.81	0.74 J	3.34	0.73 J
Cobalt	--		3.04	0.67 J	7.13	6.01	7.83	6.25
Copper	200		13.61	1.15 J	3.88	1.17	4.78	1.43
Iron	300		**28800**	**3840**	**2950**	**380**	**3360**	**434**
Lead	25		11.65	4 U	0.95 J	1 U	0.43 J	1 U
Magnesium	--		119000	113000	45500	44000	48100	41300
Manganese	300		**1866**	**1734**	**3560**	**3404**	**3746**	**3256**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		10.46	3.06	7.98	6.22	8.18	6.31
Potassium	--		60400	58600	16500	16000	16700	16000
Selenium	10		8.92 J	7.73 J	2.8 J	2.71 J	3 J	3.19 J
Silver	50		2 U	1 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	20000		**914000**	**850000**	**239000**	**231000**	**244000**	**216000**
Thallium	0.5		2.5 U	0.8 U	0.04 J	0.05 J	0.04 J	0.03 J
Vanadium	--		12.71 J	0.59 J	4.17 J	0.12 J	5.37	0.19 J
Zinc	2000		34.02 J	16.04 J	19.98	6.86 J	6.35 J	20.34

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Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-ZA-01	MW-ZA-01	MW-ZA-02	MW-ZA-02	MW-ZA-03	MW-ZA-03
		Sample Date:	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved	12/19/2013	12/19/2013 Dissolved
Aluminum	--		5490	32.9	76.2	20 U	384	6.6 J
Antimony	3		0.75 J	0.71 J	0.38 J	0.34 J	0.29 J	0.33 J
Arsenic	25		2.12	0.95	2.03	1.73	3.05	2.59
Barium	1000		292.6	171.9	863	835.8	71.17	44.42
Beryllium	3		0.1 J	0.5 U	1 U	1 U	0.5 U	0.5 U
Cadmium	5		0.05 J	0.2 U	0.4 U	0.4 U	0.2 U	0.2 U
Calcium	--		144000	126000	251000	251000	84100	80000
Chromium	50		16.73	0.97 J	1.46 J	0.98 J	5.59	2.52
Cobalt	--		6.25	2.04	1	0.92 J	0.87	0.53
Copper	200		29.4	2.15	1.24 J	0.69 J	5.61	0.8 J
Iron	300		**10900**	**696**	**18900**	**12100**	**3010**	**481**
Lead	25		9.76	1 U	0.73 J	2 U	0.78 J	1 U
Magnesium	--		37900	33100	50800	51300	14300	14400
Manganese	300		**2224**	**1971**	**3788**	**3912**	**476.7**	**478.1**
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		9.72	3.31	2.33	2.24	4.65	2.8
Potassium	--		26400	23800	29100	29500	19600	20100
Selenium	10		6.01	5.54	5.09 J	5.58 J	1.31 J	1.21 J
Silver	50		0.4 U	0.4 U	0.8 U	0.8 U	0.4 U	0.4 U
Sodium	20000		**252000**	**230000**	**484000**	**505000**	**64900**	**64200**
Thallium	0.5		0.08 J	0.5 U	1 U	1 U	0.5 U	0.5 U
Vanadium	--		28.71	4.44 J	1.36 J	0.29 J	4.64 J	2.57 J
Zinc	2000		23.62	9.74 J	19.86 J	6.81 J	6.39 J	5.19 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 10. Summary of Metals in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-04 12/20/2013	MW-ZA-04 12/20/2013 Dissolved	FB-121913 12/19/2013	FB-121913 12/19/2013 Dissolved	FB-122013 12/20/2013	FB-122013 12/20/2013 Dissolved
Aluminum	--		3090	6.23 J	5.85 J	2.97 J	10 U	10 U
Antimony	3		0.51 J	0.59 J	0.12 J	0.38 J	1 U	0.45 J
Arsenic	25		2.22	1.53	0.5 U	0.27 J	0.5 U	0.33 J
Barium	1000		371.6	267.9	0.5 U	0.5 U	0.5 U	0.5 U
Beryllium	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	5		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	--		242000	236000	100 U	100 U	100 U	100 U
Chromium	50		39.12	1.26	0.46 J	0.54 J	0.52 J	0.4 J
Cobalt	--		4.54	1.06	0.5 U	0.5 U	0.5 U	0.5 U
Copper	200		15.15	0.87 J	0.1 J	0.15 J	0.19 J	0.45 J
Iron	300		**10300**	**877**	23.3 J	44.8 J	31.7 J	50 U
Lead	25		16.38	1 U	1 U	1 U	0.46 J	1 U
Magnesium	--		79000	77800	70 U	70 U	70 U	70 U
Manganese	300		**784**	**719.2**	0.21 J	0.35 J	0.23 J	0.11 J
Mercury	0.7		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100		26.44	9.07	0.14 J	0.14 J	0.13 J	0.28 J
Potassium	--		37800	35100	28.2 J	74.2 J	36.9 J	100 U
Selenium	10		3.52 J	3.35 J	5 U	0.73 J	5 U	5 U
Silver	50		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Sodium	20000		**200000**	**202000**	27 J	78.6 J	57.5 J	63.3 J
Thallium	0.5		0.09 J	0.5 U	0.03 J	0.03 J	0.03 J	0.5 U
Vanadium	--		14.33	1.58 J	5 U	5 U	5 U	5 U
Zinc	2000		26.51	7.55 J	3.04 J	5 J	10.62	8.58 J

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Polychlorinated Biphenyls in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
Aroclor-1016	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0	0	0	0

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Polychlorinated Biphenyls in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
Aroclor-1016	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0	0	0	0

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Polychlorinated Biphenyls in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
Aroclor-1016	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0	0	0	0

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 11. Summary of Polychlorinated Biphenyls in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
Aroclor-1016	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1221	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1232	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1242	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1248	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1254	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1260	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1262	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Aroclor-1268	--		0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Total PCBs	0.09		0	0	0	0	0	0

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Pesticides in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	MW-AE-01 12/20/2013	MW-AE-02 12/20/2013	MW-AE-03 12/20/2013	MW-AE-04 12/20/2013	MW-AE-05 12/20/2013	MW-FN-01 12/20/2013
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation
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Table 12. Summary of Pesticides in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-02	MW-FN-03	MW-FN-04	MW-FN-05	MW-FN-06	MW-FN-07
		Sample Date:	12/19/2013	12/19/2013	12/19/2013	12/18/2013	12/18/2013	12/20/2013
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.023 J	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		0.04 U	0.04 U	0.04 U	0.04 U	**0.023 J**	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values
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- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Pesticides in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:**	MW-FN-08	MW-FS-01	MW-FS-02	MW-FS-03	MW-FS-04	DUP-MW-FS-04
		Sample Date:	12/18/2013	12/18/2013	12/19/2013	12/19/2013	12/19/2013	12/19/2013
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.017 J	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		**0.015 J**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 12. Summary of Pesticides in Groundwater, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	MW-ZA-01 12/19/2013	MW-ZA-02 12/19/2013	MW-ZA-03 12/19/2013	MW-ZA-04 12/20/2013	FB-121913 12/19/2013	FB-122013 12/20/2013
4,4'-DDD	0.3		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
alpha-Chlordane	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
beta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
delta-BHC	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	--		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0		0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
gamma-BHC (Lindane)	--		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
gamma-Chlordane	0		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

NYSDEC - New York State Department of Environmental Conservation
AWQSGVs - Ambient Water-Quality Standards and Guidance Values
µg/L -Micrograms per liter
J - Estimated Value
U - Compound was analyzed for but not detected
DUP - Duplicate
- - No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in ug/m^3)	Sample Designation:	SV-AE-01	SV-AE-02	SV-AE-03	SV-AE-04	SV-AE-04A	SV-AE-05	SV-AE-06	SV-AE-07	SV-AE-08	SV-AE-09	SV-FN-02	SV-FN-03	SV-FN-04	SV-FN-05	SV-FN-06	SV-FN-07	SV-FN-08	SV-FN-08A
	Sample Date:	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013
1,1,1-Trichloroethane		10.9 U	24.8 U	10.9 U	**14.8**	**8.13**	**93.3**	**2.88**	10.9 U	10.9 U	**161**	**33.8**	10.9 U	**220**	10.9 U	10.9 U	10.9 U	2.73 U	1.09 U
1,1,2,2-Tetrachloroethane		13.7 U	31.2 U	13.7 U	13.7 U	1.37 U	13.7 U	1.37 U	13.7 U	13.7 U	13.7 U	13.7 U	13.7 U	1.37 U	13.7 U	13.7 U	13.7 U	3.43 U	1.37 U
1,1,2-Trichloroethane		10.9 U	24.8 U	10.9 U	10.9 U	1.09 U	10.9 U	1.09 U	10.9 U	10.9 U	10.9 U	10.9 U	10.9 U	1.09 U	10.9 U	10.9 U	10.9 U	2.73 U	1.09 U
1,1-Dichloroethane		8.09 U	18.4 U	8.09 U	8.09 U	0.809 U	8.09 U	0.809 U	8.09 U	8.09 U	**129**	8.09 U	8.09 U	**1.42**	8.09 U	8.09 U	8.09 U	2.02 U	0.809 U
1,1-Dichloroethene		7.93 U	18 U	7.93 U	7.93 U	0.793 U	7.93 U	0.793 U	7.93 U	7.93 U	7.93 U	7.93 U	7.93 U	0.793 U	7.93 U	7.93 U	7.93 U	1.98 U	0.793 U
1,2,4-Trichlorobenzene		14.8 U	33.8 U	14.8 U	14.8 U	1.48 U	14.8 U	1.48 U	14.8 U	14.8 U	14.8 U	14.8 U	14.8 U	1.48 U	14.8 U	14.8 U	14.8 U	3.71 U	1.48 U
1,2,4-Trimethylbenzene		9.83 U	22.4 U	9.83 U	9.83 U	**2.79**	9.83 U	**1.03**	9.83 U	9.83 U	9.83 U	9.83 U	9.83 U	**1.72**	9.83 U	9.83 U	9.83 U	2.46 U	**1.64**
1,2-Dibromoethane		15.4 U	35 U	15.4 U	15.4 U	1.54 U	15.4 U	1.54 U	15.4 U	15.4 U	15.4 U	15.4 U	15.4 U	1.54 U	15.4 U	15.4 U	15.4 U	3.84 U	1.54 U
1,2-Dichlorobenzene		12 U	27.4 U	12 U	12 U	1.2 U	12 U	1.2 U	12 U	12 U	12 U	12 U	12 U	1.2 U	12 U	12 U	12 U	3.01 U	1.2 U
1,2-Dichloroethane		8.09 U	18.4 U	8.09 U	8.09 U	0.809 U	8.09 U	0.809 U	8.09 U	8.09 U	8.09 U	8.09 U	8.09 U	0.809 U	8.09 U	8.09 U	8.09 U	2.02 U	0.809 U
1,2-Dichloropropane		9.24 U	21 U	9.24 U	9.24 U	0.924 U	9.24 U	0.924 U	9.24 U	9.24 U	9.24 U	9.24 U	9.24 U	0.924 U	9.24 U	9.24 U	9.24 U	2.31 U	0.924 U
1,3,5-Trimethylbenzene		9.83 U	22.4 U	9.83 U	9.83 U	0.983 U	9.83 U	0.983 U	9.83 U	9.83 U	9.83 U	9.83 U	9.83 U	0.983 U	9.83 U	9.83 U	9.83 U	2.46 U	0.983 U
1,3-Butadiene		4.42 U	10.1 U	4.42 U	4.42 U	0.442 U	4.42 U	0.442 U	4.42 U	4.42 U	4.42 U	4.42 U	4.42 U	0.442 U	4.42 U	4.42 U	4.42 U	1.11 U	0.442 U
1,3-Dichlorobenzene		12 U	27.4 U	12 U	12 U	1.2 U	12 U	1.2 U	12 U	12 U	12 U	12 U	12 U	1.2 U	12 U	12 U	12 U	3.01 U	1.2 U
1,4-Dichlorobenzene		12 U	27.4 U	12 U	12 U	1.2 U	12 U	1.2 U	12 U	12 U	12 U	12 U	12 U	1.2 U	12 U	12 U	12 U	3.01 U	1.2 U
1,4-Dioxane		7.21 U	16.4 U	7.21 U	7.21 U	0.721 U	7.21 U	0.721 U	7.21 U	7.21 U	7.21 U	7.21 U	7.21 U	0.721 U	7.21 U	7.21 U	7.21 U	1.8 U	0.721 U
2-Butanone (MEK)		**6.75**	13.4 U	5.9 U	5.9 U	**0.764**	5.9 U	0.59 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	**0.684**	5.9 U	5.9 U	5.9 U	1.47 U	**0.628**
2-Hexanone		8.2 U	18.6 U	8.2 U	8.2 U	0.82 U	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	2.05 U	0.82 U
3-Chloropropene		6.26 U	14.2 U	6.26 U	6.26 U	0.626 U	6.26 U	0.626 U	6.26 U	6.26 U	6.26 U	6.26 U	6.26 U	0.626 U	6.26 U	6.26 U	6.26 U	1.57 U	0.626 U
4-Ethyltoluene		9.83 U	22.4 U	9.83 U	9.83 U	0.983 U	9.83 U	0.983 U	9.83 U	9.83 U	9.83 U	9.83 U	9.83 U	0.983 U	9.83 U	9.83 U	9.83 U	2.46 U	0.983 U
4-Methyl-2-pentanone (MIBK)		8.2 U	18.6 U	8.2 U	8.2 U	0.82 U	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	2.05 U	0.82 U
Acetone		23.8 U	53.9 U	23.8 U	23.8 U	**6.72**	23.8 U	**4.87**	23.8 U	23.8 U	**40.4**	**325**	23.8 U	**11**	23.8 U	23.8 U	23.8 U	**10.1**	**8.67**
Benzene		**8.05**	14.5 U	6.39 U	6.39 U	**2.76**	6.39 U	0.639 U	6.39 U	6.39 U	6.39 U	6.39 U	6.39 U	**0.764**	6.39 U	6.39 U	6.39 U	1.6 U	0.639 U
Benzyl chloride		10.4 U	23.6 U	10.4 U	10.4 U	1.04 U	10.4 U	1.04 U	10.4 U	10.4 U	10.4 U	10.4 U	10.4 U	1.04 U	10.4 U	10.4 U	10.4 U	2.59 U	1.04 U
Bromodichloromethane		13.4 U	30.5 U	13.4 U	13.4 U	1.34 U	13.4 U	1.34 U	13.4 U	13.4 U	13.4 U	13.4 U	13.4 U	1.34 U	13.4 U	13.4 U	13.4 U	3.35 U	1.34 U
Bromoethene		8.74 U	19.9 U	8.74 U	8.74 U	0.874 U	8.74 U	0.874 U	8.74 U	8.74 U	8.74 U	8.74 U	8.74 U	0.874 U	8.74 U	8.74 U	8.74 U	2.19 U	0.874 U
Bromoform		20.7 U	47 U	20.7 U	20.7 U	2.07 U	20.7 U	2.07 U	20.7 U	20.7 U	20.7 U	20.7 U	20.7 U	2.07 U	20.7 U	20.7 U	20.7 U	5.17 U	2.07 U
Bromomethane		7.77 U	17.7 U	7.77 U	7.77 U	0.777 U	7.77 U	0.777 U	7.77 U	7.77 U	7.77 U	7.77 U	7.77 U	0.777 U	7.77 U	7.77 U	7.77 U	1.94 U	0.777 U
Carbon disulfide		**22**	14.2 U	6.23 U	6.23 U	**5.98**	6.23 U	0.623 U	6.23 U	6.23 U	**22.8**	6.23 U	6.23 U	**1.02**	6.23 U	6.23 U	6.23 U	1.56 U	**1.21**
Carbon tetrachloride		12.6 U	28.6 U	12.6 U	12.6 U	1.26 U	12.6 U	1.26 U	12.6 U	12.6 U	12.6 U	12.6 U	12.6 U	1.26 U	12.6 U	12.6 U	12.6 U	3.15 U	1.26 U
Chlorobenzene		9.21 U	21 U	9.21 U	9.21 U	0.921 U	9.21 U	0.921 U	9.21 U	9.21 U	9.21 U	9.21 U	9.21 U	0.921 U	9.21 U	9.21 U	9.21 U	2.3 U	0.921 U
Chloroethane		5.28 U	12 U	5.28 U	5.28 U	0.528 U	5.28 U	0.528 U	5.28 U	5.28 U	5.28 U	5.28 U	5.28 U	0.528 U	5.28 U	5.28 U	5.28 U	1.32 U	0.528 U
Chloroform		9.77 U	22.2 U	9.77 U	9.77 U	**7.76**	9.77 U	0.977 U	9.77 U	9.77 U	9.77 U	9.77 U	**18.4**	**1.88**	9.77 U	**18.6**	9.77 U	**3.71**	**6.49**
Chloromethane		4.13 U	9.4 U	4.13 U	4.13 U	0.413 U	4.13 U	0.413 U	4.13 U	4.13 U	4.13 U	4.13 U	4.13 U	0.413 U	4.13 U	4.13 U	4.13 U	1.03 U	0.413 U
cis-1,2-Dichloroethene		7.93 U	18 U	7.93 U	7.93 U	0.793 U	7.93 U	0.793 U	7.93 U	7.93 U	**9.24**	7.93 U	7.93 U	0.793 U	7.93 U	7.93 U	7.93 U	1.98 U	0.793 U
cis-1,3-Dichloropropene		9.08 U	20.7 U	9.08 U	9.08 U	0.908 U	9.08 U	0.908 U	9.08 U	9.08 U	9.08 U	9.08 U	9.08 U	0.908 U	9.08 U	9.08 U	9.08 U	2.27 U	0.908 U
Cyclohexane		**33.6**	15.7 U	6.88 U	6.88 U	**2.35**	6.88 U	0.688 U	6.88 U	6.88 U	6.88 U	6.88 U	6.88 U	0.688 U	6.88 U	6.88 U	6.88 U	1.72 U	0.688 U
Dibromochloromethane		17 U	38.8 U	17 U	17 U	1.7 U	17 U	1.7 U	17 U	17 U	17 U	17 U	17 U	1.7 U	17 U	17 U	17 U	4.26 U	1.7 U
Dichlorodifluoromethane		9.89 U	22.5 U	9.89 U	9.89 U	**1.51**	9.89 U	**3.19**	9.89 U	9.89 U	9.89 U	9.89 U	9.89 U	**2.76**	9.89 U	9.89 U	9.89 U	**2.92**	**3.06**
Ethanol		47.1 U	107 U	47.1 U	47.1 U	**6.82**	47.1 U	4.71 U	47.1 U	47.1 U	47.1 U	**47.7**	47.1 U	4.71 U	47.1 U	47.1 U	47.1 U	**19**	4.71 U
Ethyl Acetate		18 U	41.1 U	18 U	18 U	1.8 U	18 U	1.8 U	18 U	18 U	18 U	18 U	18 U	1.8 U	18 U	18 U	18 U	4.5 U	1.8 U
Ethylbenzene		8.69 U	19.8 U	8.69 U	8.69 U	**9.47**	8.69 U	**0.895**	8.69 U	8.69 U	8.69 U	8.69 U	8.69 U	**14.4**	8.69 U	8.69 U	8.69 U	2.17 U	**1.34**
Freon 113		15.3 U	34.9 U	15.3 U	15.3 U	1.53 U	15.3 U	1.53 U	15.3 U	15.3 U	15.3 U	15.3 U	15.3 U	1.53 U	15.3 U	15.3 U	15.3 U	3.83 U	1.53 U
Freon 114		14 U	31.8 U	14 U	14 U	1.4 U	14 U	1.4 U	14 U	14 U	14 U	14 U	14 U	1.4 U	14 U	14 U	14 U	3.49 U	1.4 U
Heptane		**13**	18.6 U	8.2 U	8.2 U	**2.48**	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	8.2 U	8.2 U	0.82 U	8.2 U	8.2 U	8.2 U	2.05 U	0.82 U
Hexachlorobutadiene		21.3 U	48.5 U	21.3 U	21.3 U	2.13 U	21.3 U	2.13 U	21.3 U	21.3 U	21.3 U	21.3 U	21.3 U	2.13 U	21.3 U	21.3 U	21.3 U	5.33 U	2.13 U
Isooctane		**29**	21.3 U	9.34 U	9.34 U	**10.7**	9.34 U	0.934 U	9.34 U	9.34 U	9.34 U	9.34 U	9.34 U	0.934 U	9.34 U	9.34 U	9.34 U	2.34 U	0.934 U
Isopropanol		12.3 U	28 U	12.3 U	12.3 U	1.23 U	12.3 U	1.23 U	12.3 U	12.3 U	12.3 U	**14.9**	12.3 U	1.23 U	12.3 U	12.3 U	12.3 U	3.07 U	1.23 U
m+p-Xylene		17.4 U	39.5 U	17.4 U	17.4 U	**24**	17.4 U	**3.97**	17.4 U	17.4 U	17.4 U	17.4 U	17.4 U	**24.8**	17.4 U	17.4 U	17.4 U	**6.86**	**5.39**
Methylene chloride		34.7 U	78.9 U	34.7 U	34.7 U	3.47 U	34.7 U	3.47 U	34.7 U	34.7 U	34.7 U	34.7 U	34.7 U	3.47 U	34.7 U	34.7 U	34.7 U	8.69 U	3.47 U
MTBE		7.21 U	16.4 U	7.21 U	7.21 U	0.721 U	7.21 U	0.721 U	7.21 U	7.21 U	7.21 U	7.21 U	7.21 U	0.721 U	7.21 U	7.21 U	7.21 U	1.8 U	0.721 U
n-Hexane		**45.5**	16 U	7.05 U	7.05 U	**2.09**	7.05 U	0.705 U	7.05 U	7.05 U	**7.79**	7.05 U	7.05 U	**0.835**	7.05 U	7.05 U	7.05 U	1.76 U	0.705 U
o-Xylene		8.69 U	19.8 U	8.69 U	8.69 U	**8.25**	8.69 U	**1.76**	8.69 U	8.69 U	8.69 U	8.69 U	8.69 U	**18.8**	8.69 U	8.69 U	8.69 U	**2.74**	**2.12**
Propene		**101**	19.6 U	8.61 U	8.61 U	0.861 U	8.61 U	0.861 U	8.61 U	8.61 U	8.61 U	8.61 U	8.61 U	**1.27**	8.61 U	8.61 U	8.61 U	2.15 U	0.861 U
Styrene		8.52 U	19.4 U	8.52 U	8.52 U	**25.5**	8.52 U	0.852 U	8.52 U	8.52 U	8.52 U	8.52 U	8.52 U	0.852 U	8.52 U	8.52 U	8.52 U	2.13 U	0.852 U

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in ug/m^3)	**Sample Designation:** / **Sample Date:**	SV-AE-01 12/17/2013	SV-AE-02 12/17/2013	SV-AE-03 12/17/2013	SV-AE-04 12/17/2013	SV-AE-04A 12/17/2013	SV-AE-05 12/17/2013	SV-AE-06 12/17/2013	SV-AE-07 12/17/2013	SV-AE-08 12/17/2013	SV-AE-09 12/17/2013	SV-FN-02 12/17/2013	SV-FN-03 12/17/2013	SV-FN-04 12/17/2013	SV-FN-05 12/17/2013	SV-FN-06 12/17/2013	SV-FN-07 12/17/2013	SV-FN-08 12/17/2013	SV-FN-08A 12/17/2013
Tetrachloroethene		13.6 U	30.9 U	13.6 U	**92.2**	**8.82**	13.6 U	**1.51**	13.6 U	13.6 U	13.6 U	13.6 U	13.6 U	**50.9**	**16.4**	13.6 U	13.6 U	**11.3**	**14.1**
Tetrahydrofuran		5.9 U	13.4 U	5.9 U	5.9 U	0.59 U	5.9 U	0.59 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	0.59 U	5.9 U	5.9 U	5.9 U	1.47 U	**0.613**
Toluene		**11.9**	17.1 U	7.54 U	**14.3**	**38.1**	7.54 U	**3.14**	7.54 U	7.54 U	**16.7**	7.54 U	7.54 U	**2.43**	7.54 U	7.54 U	**19**	**9.95**	**5.16**
trans-1,2-Dichloroethene		7.93 U	18 U	7.93 U	7.93 U	0.793 U	7.93 U	0.793 U	7.93 U	7.93 U	7.93 U	7.93 U	7.93 U	0.793 U	7.93 U	7.93 U	7.93 U	1.98 U	0.793 U
trans-1,3-Dichloropropene		9.08 U	20.7 U	9.08 U	9.08 U	0.908 U	9.08 U	0.908 U	9.08 U	9.08 U	9.08 U	9.08 U	9.08 U	0.908 U	9.08 U	9.08 U	9.08 U	2.27 U	0.908 U
Trichloroethene		10.7 U	24.5 U	10.7 U	10.7 U	**1.16**	10.7 U	1.07 U	10.7 U	10.7 U	**53**	10.7 U	10.7 U	1.07 U	10.7 U	10.7 U	10.7 U	2.69 U	1.07 U
Trichlorofluoromethane		11.2 U	25.6 U	**132**	**155**	**201**	**20.4**	**1.69**	11.2 U	11.2 U	11.2 U	**18.7**	11.2 U	**25.3**	**12.6**	11.2 U	11.2 U	2.81 U	**1.53**
Vinyl acetate		7.04 U	16 U	7.04 U	7.04 U	0.704 U	7.04 U	0.704 U	7.04 U	7.04 U	7.04 U	7.04 U	7.04 U	0.704 U	7.04 U	7.04 U	7.04 U	1.76 U	0.704 U
Vinyl chloride		5.11 U	11.6 U	5.11 U	5.11 U	0.511 U	5.11 U	0.511 U	5.11 U	5.11 U	5.11 U	5.11 U	5.11 U	0.511 U	5.11 U	5.11 U	5.11 U	1.28 U	0.511 U

J - Estimated value
E - Indicates value exceeded calibration range
U - Indicates that the compound was analyzed for but not detected
HF - Field parameter with a holding time of 15 minutes
DUP - Duplicate sample
ug/m^3 - Micrograms per cubic meter
Bold data indicates that parameter was detected

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

DRAFT

Parameter (Concentrations in ug/m^3)	Sample Designation:	SV-FN-09	SV-FN-10	SV-FN-11	SV-FN-12	SV-FN-13	SV-FN-14	SV-FS-01	SV-FS-01A	SV-FS-02	SV-FS-03	SV-FS-04	SV-FS-05	SV-FS-06	SV-ZA-03	SV-ZA-04	SV-ZA-05	SV-ZA-06	SV-ZA-07
	Sample Date:	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/16/2013	12/17/2013	12/20/2013	12/17/2013	12/16/2013	12/20/2013	12/20/2013	12/16/2013	12/20/2013	12/16/2013
1,1,1-Trichloroethane		1.09 U	2.73 U	1.09 U	10.9 U	5.46 U	5.46 U	**30.3**	**32.2**	**36.7**	**11.5**	**102**	**11.9**	**95.5**	**40.6**	**79.7**	**2.4**	**2.29**	1.09 U
1,1,2,2-Tetrachloroethane		1.37 U	3.43 U	1.37 U	13.7 U	6.87 U	6.87 U	1.37 U	1.37 U	2.75 U	1.37 U	13.7 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloroethane		1.09 U	2.73 U	1.09 U	10.9 U	5.46 U	5.46 U	1.09 U	1.09 U	2.18 U	1.09 U	10.9 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane		0.809 U	2.02 U	0.809 U	8.09 U	4.05 U	4.05 U	0.809 U	0.809 U	1.62 U	0.809 U	**32.7**	0.809 U	0.809 U	**11**	0.809 U	0.809 U	**3.04**	0.809 U
1,1-Dichloroethene		0.793 U	1.98 U	0.793 U	7.93 U	3.96 U	3.96 U	0.793 U	0.793 U	1.59 U	0.793 U	7.93 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene		1.48 U	3.71 U	1.48 U	14.8 U	7.42 U	7.42 U	1.48 U	1.48 U	2.97 U	1.48 U	14.8 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene		**3.01**	2.46 U	**1.27**	9.83 U	4.92 U	4.92 U	**2.5**	**1.95**	1.97 U	**2.14**	9.83 U	**4.34**	0.983 U	**2.42**	**2.05**	0.983 U	**2.92**	0.983 U
1,2-Dibromoethane		1.54 U	3.84 U	1.54 U	15.4 U	7.69 U	7.69 U	1.54 U	1.54 U	3.07 U	1.54 U	15.4 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene		1.2 U	3.01 U	1.2 U	12 U	6.01 U	6.01 U	1.2 U	1.2 U	2.4 U	1.2 U	12 U	**9.08**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane		0.809 U	2.02 U	0.809 U	8.09 U	4.05 U	4.05 U	0.809 U	0.809 U	1.62 U	0.809 U	8.09 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane		0.924 U	2.31 U	0.924 U	9.24 U	4.62 U	4.62 U	0.924 U	0.924 U	1.85 U	0.924 U	9.24 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,3,5-Trimethylbenzene		0.983 U	2.46 U	0.983 U	9.83 U	4.92 U	4.92 U	0.983 U	0.983 U	1.97 U	0.983 U	9.83 U	**2.2**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene		0.442 U	1.11 U	0.442 U	4.42 U	2.21 U	2.21 U	0.442 U	0.442 U	0.885 U	0.442 U	4.42 U	0.442 U	0.442 U	**1.68**	**0.653**	0.442 U	**0.688**	0.442 U
1,3-Dichlorobenzene		1.2 U	3.01 U	1.2 U	12 U	6.01 U	6.01 U	1.2 U	1.2 U	2.4 U	1.2 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene		1.2 U	3.01 U	1.2 U	12 U	6.01 U	6.01 U	1.2 U	1.2 U	2.4 U	1.2 U	12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane		0.721 U	1.8 U	0.721 U	7.21 U	3.6 U	3.6 U	0.721 U	0.721 U	1.44 U	0.721 U	7.21 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2-Butanone (MEK)		**1.76**	1.47 U	**0.628**	5.9 U	2.95 U	2.95 U	**0.726**	0.59 U	1.18 U	**3.75**	5.9 U	**0.728**	**0.684**	**3.63**	**3.48**	**1.09**	**1.81**	**0.82**
2-Hexanone		0.82 U	2.05 U	0.82 U	8.2 U	4.1 U	4.1 U	0.82 U	0.82 U	1.64 U	0.82 U	8.2 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
3-Chloropropene		0.626 U	1.57 U	0.626 U	6.26 U	3.13 U	3.13 U	0.626 U	0.626 U	1.25 U	0.626 U	6.26 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
4-Ethyltoluene		0.983 U	2.46 U	0.983 U	9.83 U	4.92 U	4.92 U	0.983 U	0.983 U	1.97 U	0.983 U	9.83 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
4-Methyl-2-pentanone (MIBK)		0.82 U	2.05 U	0.82 U	8.2 U	4.1 U	4.1 U	0.82 U	0.82 U	1.64 U	0.82 U	8.2 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Acetone		**7.84**	**12.1**	**6.77**	**24.2**	**18.1**	**43.2**	**4.99**	2.38 U	**12.8**	**43.9**	**42.8**	2.38 U	**5.46**	**23.8**	**24.5**	**6.56**	**8.29**	**8.77**
Benzene		**2.39**	1.6 U	0.639 U	6.39 U	3.19 U	3.19 U	**0.792**	**1.44**	1.28 U	**1.91**	6.39 U	**1.51**	**0.968**	**2.55**	**4.47**	**1.94**	**2.54**	0.639 U
Benzyl chloride		1.04 U	2.59 U	1.04 U	10.4 U	5.18 U	5.18 U	1.04 U	1.04 U	2.07 U	1.04 U	10.4 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane		1.34 U	3.35 U	1.34 U	13.4 U	6.7 U	6.7 U	1.34 U	1.34 U	2.68 U	1.34 U	13.4 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoethene		0.874 U	2.19 U	0.874 U	8.74 U	4.37 U	4.37 U	0.874 U	0.874 U	1.75 U	0.874 U	8.74 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Bromoform		2.07 U	5.17 U	2.07 U	20.7 U	10.3 U	10.3 U	2.07 U	2.07 U	4.14 U	2.07 U	20.7 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane		0.777 U	1.94 U	0.777 U	7.77 U	3.88 U	3.88 U	0.777 U	0.777 U	1.55 U	0.777 U	7.77 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon disulfide		**0.919**	1.56 U	0.623 U	6.23 U	3.11 U	3.11 U	0.623 U	**1.48**	1.25 U	0.623 U	6.23 U	0.623 U	0.623 U	**9.9**	**8.84**	**1.45**	**2.81**	0.623 U
Carbon tetrachloride		1.26 U	3.15 U	1.26 U	12.6 U	6.29 U	6.29 U	1.26 U	1.26 U	2.52 U	1.26 U	12.6 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
Chlorobenzene		0.921 U	2.3 U	0.921 U	9.21 U	4.61 U	4.61 U	0.921 U	0.921 U	1.84 U	0.921 U	9.21 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane		0.528 U	1.32 U	0.528 U	5.28 U	2.64 U	2.64 U	0.528 U	0.528 U	1.06 U	0.528 U	5.28 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform		**1.38**	2.44 U	**3.99**	9.77 U	4.88 U	4.88 U	**6.25**	**4.11**	**8.06**	**4.43**	9.77 U	**4.29**	**1.25**	0.977 U	**1.89**	0.977 U	0.977 U	0.977 U
Chloromethane		**0.417**	1.03 U	**0.518**	4.13 U	2.07 U	2.07 U	0.413 U	0.413 U	0.826 U	0.413 U	4.13 U	0.413 U	**0.537**	**0.423**	0.413 U	0.413 U	0.413 U	0.413 U
cis-1,2-Dichloroethene		0.793 U	1.98 U	0.793 U	7.93 U	3.96 U	3.96 U	0.793 U	0.793 U	1.59 U	0.793 U	7.93 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,3-Dichloropropene		0.908 U	2.27 U	0.908 U	9.08 U	4.54 U	4.54 U	0.908 U	0.908 U	1.82 U	0.908 U	9.08 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane		**2.57**	1.72 U	0.688 U	6.88 U	3.44 U	3.44 U	**0.747**	**1.52**	1.38 U	**1.75**	6.88 U	**1.37**	**0.809**	**2.5**	**2.77**	**1.23**	**5.4**	0.688 U
Dibromochloromethane		1.7 U	4.26 U	1.7 U	17 U	8.52 U	8.52 U	1.7 U	1.7 U	3.41 U	1.7 U	17 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane		**2.95**	**2.91**	**2.78**	9.89 U	4.94 U	4.94 U	**2.46**	**2.06**	**2.94**	**2.59**	9.89 U	**1.96**	**1.91**	**1.66**	**3.15**	**2.12**	**1.74**	**2.55**
Ethanol		**25.2**	11.8 U	**5.95**	47.1 U	23.6 U	**35.2**	**19.8**	**11.1**	**40.3**	**85.4**	**132**	**7.56**	**23.6**	**4.9**	**5.09**	4.71 U	**4.92**	**6.86**
Ethyl Acetate		1.8 U	4.5 U	1.8 U	18 U	9.01 U	9.01 U	1.8 U	1.8 U	3.6 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene		**2.23**	2.17 U	**2.57**	8.69 U	4.34 U	4.34 U	**1.72**	**2.21**	**11.9**	**6.39**	8.69 U	**2.12**	**2.34**	**2.06**	**2.34**	0.869 U	**1.99**	**1.06**
Freon 113		1.53 U	3.83 U	1.53 U	15.3 U	7.66 U	7.66 U	1.53 U	1.53 U	3.07 U	1.53 U	**20.9**	**1.62**	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
Freon 114		1.4 U	3.49 U	1.4 U	14 U	6.99 U	6.99 U	1.4 U	1.4 U	2.8 U	1.4 U	14 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Heptane		**3.27**	2.05 U	0.82 U	8.2 U	4.1 U	4.1 U	**0.832**	**1.95**	1.64 U	**2.61**	8.2 U	**1.92**	**0.824**	**1.79**	**1.5**	0.82 U	**2.16**	0.82 U
Hexachlorobutadiene		2.13 U	5.33 U	2.13 U	21.3 U	10.7 U	10.7 U	2.13 U	2.13 U	4.27 U	2.13 U	21.3 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isooctane		**4.57**	2.34 U	0.934 U	9.34 U	4.67 U	4.67 U	**1.04**	**1.48**	1.87 U	**3.17**	9.34 U	**2.23**	**0.934**	**1.73**	**1.84**	0.934 U	**2.35**	0.934 U
Isopropanol		**1.6**	3.07 U	1.23 U	12.3 U	6.15 U	6.15 U	**1.87**	1.23 U	2.46 U	**7.74**	12.3 U	**1.33**	**2.48**	**1.46**	**1.28**	1.23 U	**1.41**	**1.32**
m+p-Xylene		**8.51**	**6.25**	**11.1**	17.4 U	8.69 U	8.69 U	**7.38**	**8.04**	**42**	**27**	17.4 U	**8.25**	**8.73**	**7.91**	**7.95**	**2.87**	**7.34**	**4.32**
Methylene chloride		3.47 U	8.69 U	3.47 U	34.7 U	17.4 U	17.4 U	3.47 U	3.47 U	6.95 U	3.47 U	34.7 U	**3.61**	3.47 U	**5.7**	**7.16**	**4.34**	**6.53**	3.47 U
MTBE		0.721 U	1.8 U	**0.883**	7.21 U	3.61 U	3.61 U	0.721 U	0.721 U	1.44 U	0.721 U	7.21 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	**1.87**	0.721 U
n-Hexane		**9.37**	1.76 U	**0.966**	7.05 U	3.52 U	3.52 U	**2.29**	**3.25**	**1.64**	**4.72**	7.05 U	**2.47**	**1.85**	**4.33**	**2.84**	**9.59**	**7.08**	0.705 U
o-Xylene		**3.12**	**2.56**	**4.73**	8.69 U	4.34 U	4.34 U	**2.6**	**3**	**11.6**	**8.56**	8.69 U	**3.29**	**2.83**	**2.98**	**2.84**	**1.26**	**3.2**	**1.7**
Propene		**1.53**	2.15 U	0.861 U	8.61 U	4.3 U	**13.1**	0.861 U	0.861 U	1.72 U	0.861 U	8.61 U	0.861 U	0.861 U	**43**	**3.75**	**2.17**	**112**	0.861 U
Styrene		0.852 U	2.13 U	0.852 U	8.52 U	4.26 U	4.26 U	0.852 U	**1.29**	1.7 U	0.852 U	8.52 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

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Parameter (Concentrations in ug/m^3)	Sample Designation:	SV-FN-09	SV-FN-10	SV-FN-11	SV-FN-12	SV-FN-13	SV-FN-14	SV-FS-01	SV-FS-01A	SV-FS-02	SV-FS-03	SV-FS-04	SV-FS-05	SV-FS-06	SV-ZA-03	SV-ZA-04	SV-ZA-05	SV-ZA-06	SV-ZA-07
	Sample Date:	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/17/2013	12/16/2013	12/17/2013	12/20/2013	12/17/2013	12/16/2013	12/20/2013	12/20/2013	12/16/2013	12/20/2013	12/16/2013
Tetrachloroethene		**18.2**	**8.34**	**15.7**	13.6 U	6.78 U	**11**	**2.56**	**1.65**	**2.71**	**7.66**	13.6 U	**138**	**4.71**	**3.63**	**12.4**	**2.96**	**4.09**	**8.95**
Tetrahydrofuran		0.59 U	1.47 U	0.59 U	5.9 U	2.95 U	2.95 U	0.59 U	0.59 U	1.18 U	0.59 U	5.9 U	0.59 U	0.59 U	**1.08**	**1.57**	0.59 U	**0.82**	0.59 U
Toluene		**10.9**	**3.84**	**9.57**	7.54 U	**3.77**	**4.75**	**22.5**	**9.23**	**369**	**79.9**	**18.5**	**14.8**	**36**	**6.1**	**7.46**	**8.74**	**5.92**	**6.07**
trans-1,2-Dichloroethene		0.793 U	1.98 U	0.793 U	7.93 U	3.96 U	3.96 U	0.793 U	0.793 U	1.59 U	0.793 U	7.93 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,3-Dichloropropene		0.908 U	2.27 U	0.908 U	9.08 U	4.54 U	4.54 U	0.908 U	0.908 U	1.82 U	0.908 U	9.08 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethene		1.07 U	2.69 U	1.07 U	10.7 U	5.37 U	5.37 U	1.07 U	1.07 U	2.15 U	**148**	10.7 U	**4.4**	1.07 U	1.07 U	**7.52**	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane		**1.72**	2.81 U	**1.76**	11.2 U	5.62 U	5.62 U	**4.13**	**3.61**	2.25 U	**1.64**	11.2 U	**1.34**	**1.6**	1.12 U	**3.12**	**1.72**	1.12 U	**3.21**
Vinyl acetate		0.704 U	1.76 U	0.704 U	7.04 U	3.52 U	3.52 U	0.704 U	0.704 U	1.41 U	0.704 U	7.04 U	0.704 U	0.704 U	0.704 U	0.704 U	0.704 U	0.704 U	0.704 U
Vinyl chloride		0.511 U	1.28 U	0.511 U	5.11 U	2.56 U	2.56 U	0.511 U	0.511 U	1.02 U	0.511 U	5.11 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

J - Estimated value
E - Indicates value exceeded calibration range
U - Indicates that the compound was analyzed for but not detected
HF - Field parameter with a holding time of 15 minutes
DUP - Duplicate sample
ug/m^3 - Micrograms per cubic meter
Bold data indicates that parameter was detected

Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:** SV-ZA-08 **Sample Date:** 12/16/2013	SV-ZA-09 12/16/2013	SV-ZA-10 12/20/2013
1,1,1-Trichloroethane	**9**	**1.75**	1.09 U
1,1,2,2-Tetrachloroethane	1.37 U	1.37 U	1.37 U
1,1,2-Trichloroethane	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	0.793 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	0.983 U	0.983 U	**1.9**
1,2-Dibromoethane	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	0.924 U	0.924 U	0.924 U
1,3,5-Trimethylbenzene	0.983 U	0.983 U	0.983 U
1,3-Butadiene	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	1.2 U	1.2 U	1.2 U
1,4-Dioxane	0.721 U	0.721 U	0.721 U
2-Butanone (MEK)	**1.17**	**1.56**	**4.04**
2-Hexanone	0.82 U	0.82 U	0.82 U
3-Chloropropene	0.626 U	0.626 U	0.626 U
4-Ethyltoluene	0.983 U	0.983 U	0.983 U
4-Methyl-2-pentanone (MIBK)	0.82 U	0.82 U	0.82 U
Acetone	**12**	**7.58**	**23.8**
Benzene	0.639 U	0.639 U	**2.34**
Benzyl chloride	1.04 U	1.04 U	1.04 U
Bromodichloromethane	1.34 U	1.34 U	1.34 U
Bromoethene	0.874 U	0.874 U	0.874 U
Bromoform	2.07 U	2.07 U	2.07 U
Bromomethane	0.777 U	0.777 U	0.777 U
Carbon disulfide	0.623 U	**2.1**	**1.97**
Carbon tetrachloride	1.26 U	1.26 U	1.26 U
Chlorobenzene	0.921 U	0.921 U	0.921 U
Chloroethane	0.528 U	**0.739**	0.528 U
Chloroform	**14.2**	0.977 U	0.977 U
Chloromethane	0.413 U	0.413 U	0.413 U
cis-1,2-Dichloroethene	0.793 U	0.793 U	0.793 U
cis-1,3-Dichloropropene	0.908 U	0.908 U	0.908 U
Cyclohexane	**0.929**	0.688 U	**2.86**
Dibromochloromethane	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	**2.59**	**2.65**	**3.08**
Ethanol	4.71 U	**9.57**	**7.29**
Ethyl Acetate	1.8 U	1.8 U	1.8 U
Ethylbenzene	**0.925**	0.869 U	**2.38**
Freon 113	1.53 U	1.53 U	1.53 U
Freon 114	1.4 U	1.4 U	1.4 U
Heptane	0.82 U	0.82 U	**1.74**
Hexachlorobutadiene	2.13 U	2.13 U	2.13 U
Isooctane	0.934 U	0.934 U	**2.81**
Isopropanol	1.23 U	**1.64**	1.23 U
m+p-Xylene	**3.16**	**1.97**	**8.21**
Methylene chloride	3.47 U	3.47 U	**3.96**
MTBE	0.721 U	0.721 U	0.721 U
n-Hexane	**0.867**	**3.25**	**2.58**
o-Xylene	**1.22**	0.869 U	**3.05**
Propene	0.861 U	**1.01**	**1.57**
Styrene	0.852 U	0.852 U	0.852 U

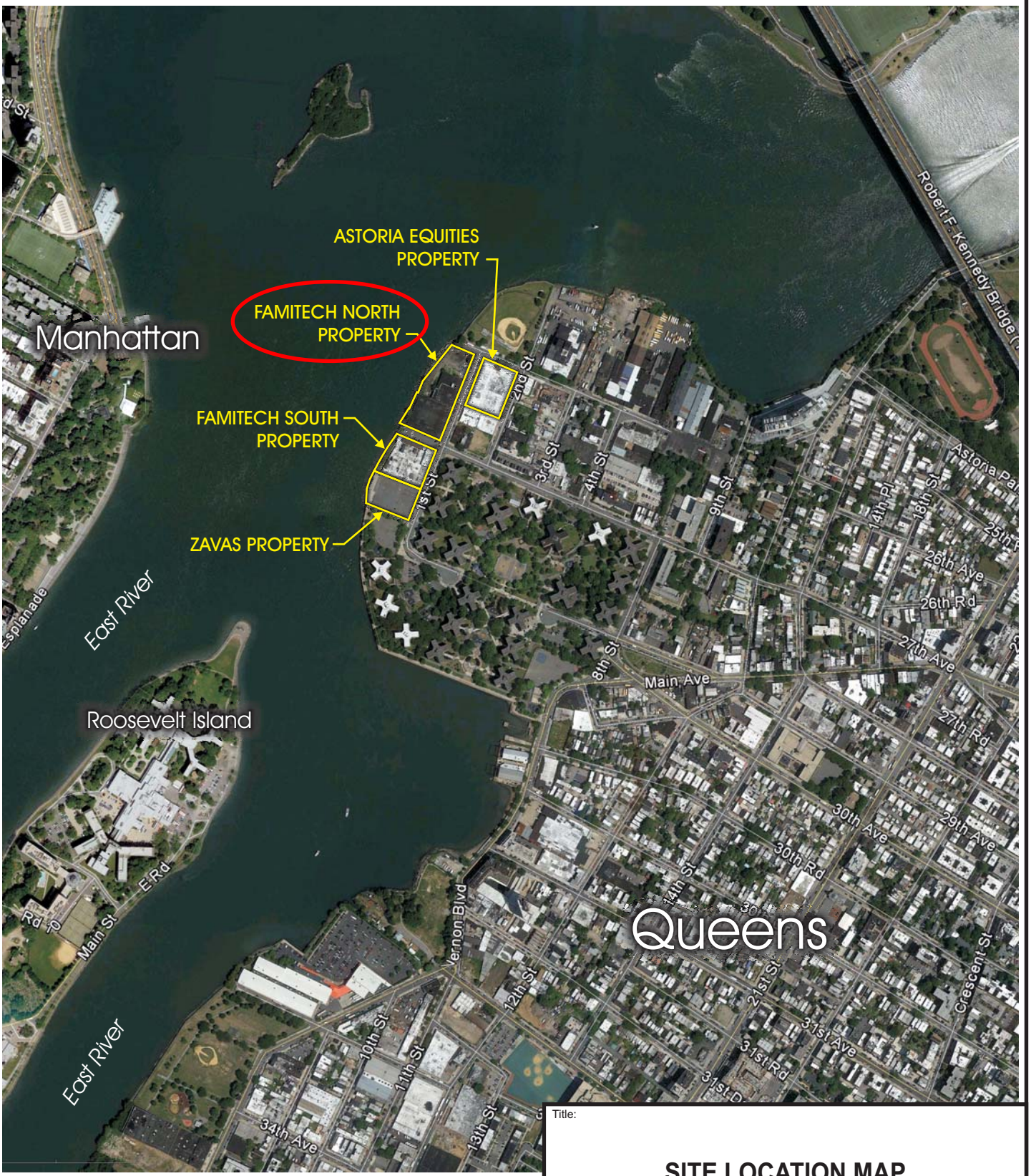
Table 13. Summary of Volatile Organic Compounds in Soil Vapor, Project H Remedial Investigation
Zavas, Astoria Equities and Famitech Parcels, Astoria, New York

Parameter (Concentrations in ug/m^3)	**Sample Designation:** / **Sample Date:**	SV-ZA-08 12/16/2013	SV-ZA-09 12/16/2013	SV-ZA-10 12/20/2013
Tetrachloroethene		**22**	**30.2**	**3.22**
Tetrahydrofuran		0.59 U	0.59 U	**2.12**
Toluene		**4.79**	**2.67**	**8.78**
trans-1,2-Dichloroethene		0.793 U	0.793 U	0.793 U
trans-1,3-Dichloropropene		0.908 U	0.908 U	0.908 U
Trichloroethene		1.07 U	**2.76**	1.07 U
Trichlorofluoromethane		**1.63**	**2.48**	**1.88**
Vinyl acetate		0.704 U	0.704 U	0.704 U
Vinyl chloride		0.511 U	0.511 U	0.511 U

J - Estimated value
E - Indicates value exceeded calibration range
U - Indicates that the compound was analyzed for but not detected
HF - Field parameter with a holding time of 15 minutes
DUP - Duplicate sample
ug/m^3 - Micrograms per cubic meter
Bold data indicates that parameter was detected

FIGURES

1. Site Location Map
2. Proposed Site Development Map



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N

Title:

SITE LOCATION MAP

PROJECT H
ASTORIA, NEW YORK

Prepared for:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 27JAN14	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr.: J.L.	Project No.: 1338.0010Y000	
File: 1338.0010Y103.05.CDR		

\1338Y\0010Y\103\1338.0010Y103.05.CDR

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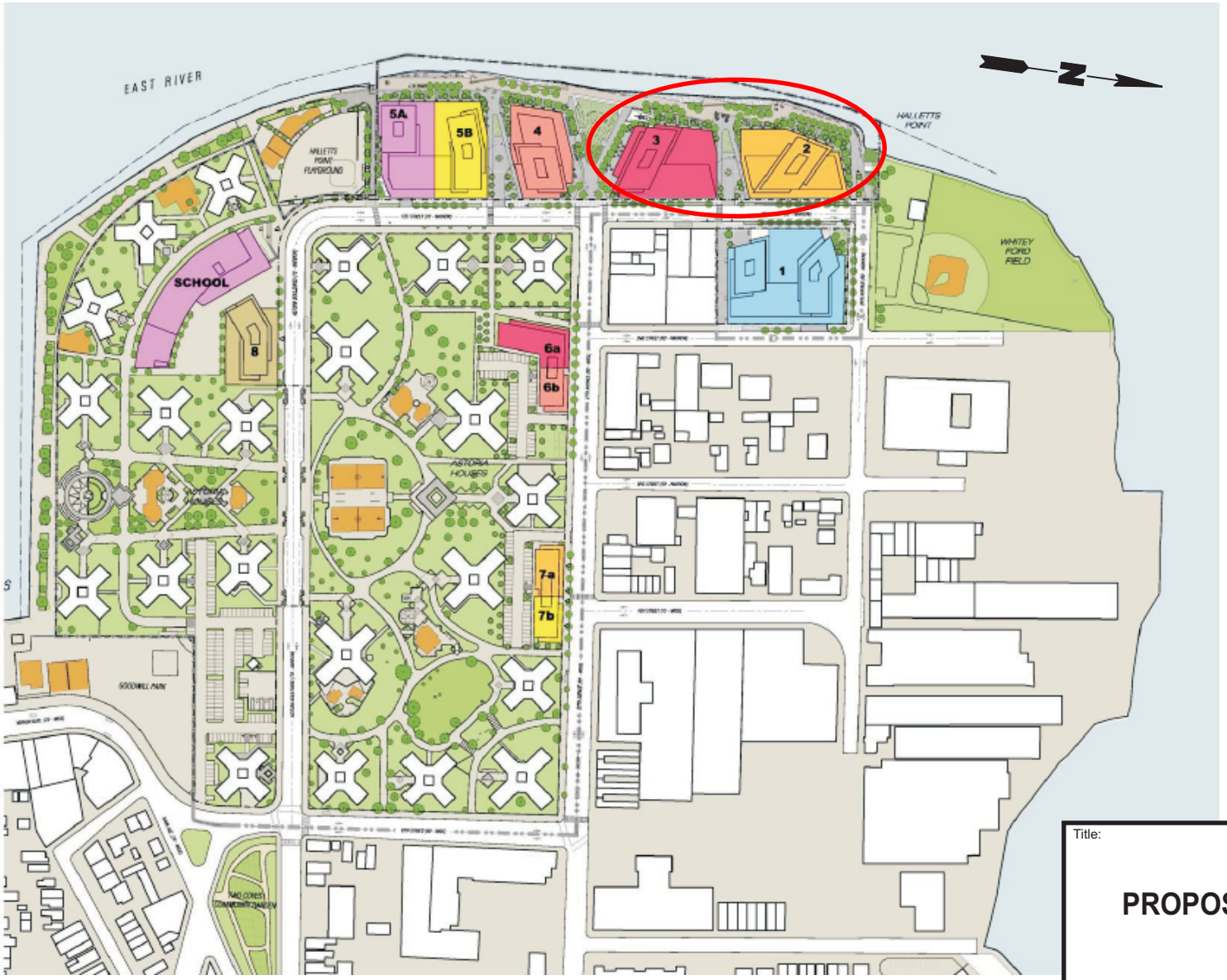


LEGEND

- **PHASE 1** (BUILDING 1) SITE CONTAINS 20% AFFORDABLE HOUSING
- **PHASE 2** (BUILDINGS 2 & 7a) AFFORDABLE HOUSING ON NYCHA CAMPUS
- **PHASE 3** (BUILDING 5A & SCHOOL) SITE CONTAINS 20% AFFORDABLE HOUSING
- **PHASE 4** (BUILDINGS 5B & 7a) AFFORDABLE HOUSING ON NYCHA CAMPUS
- **PHASE 5** (BUILDINGS 4 & 6b) AFFORDABLE HOUSING ON NYCHA CAMPUS
- **PHASE 6** (BUILDINGS 3 & 6a) AFFORDABLE HOUSING ON NYCHA CAMPUS
- **PHASE 7** (BUILDING 8) NYCHA DEVELOPMENT

Title:

PROPOSED SITE DEVELOPMENT

PROJECT H
ASTORIA, NEW YORK

Prepared for:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

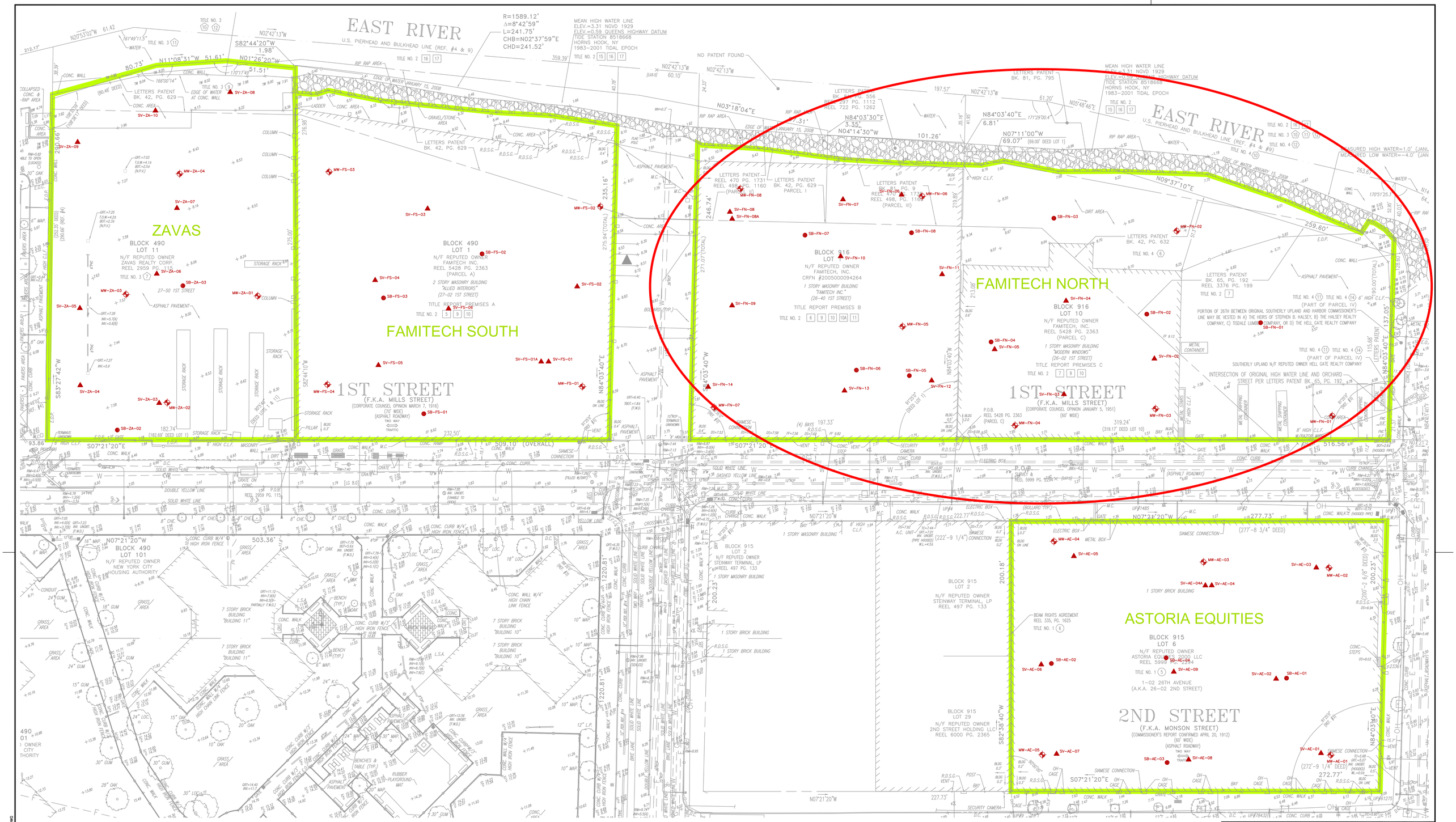
Compiled by: J.L.	Date: 27JAN14	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr.: J.L.	Project No.: 1338.0010Y000	
File: 1338.0010Y103.05.CDR		

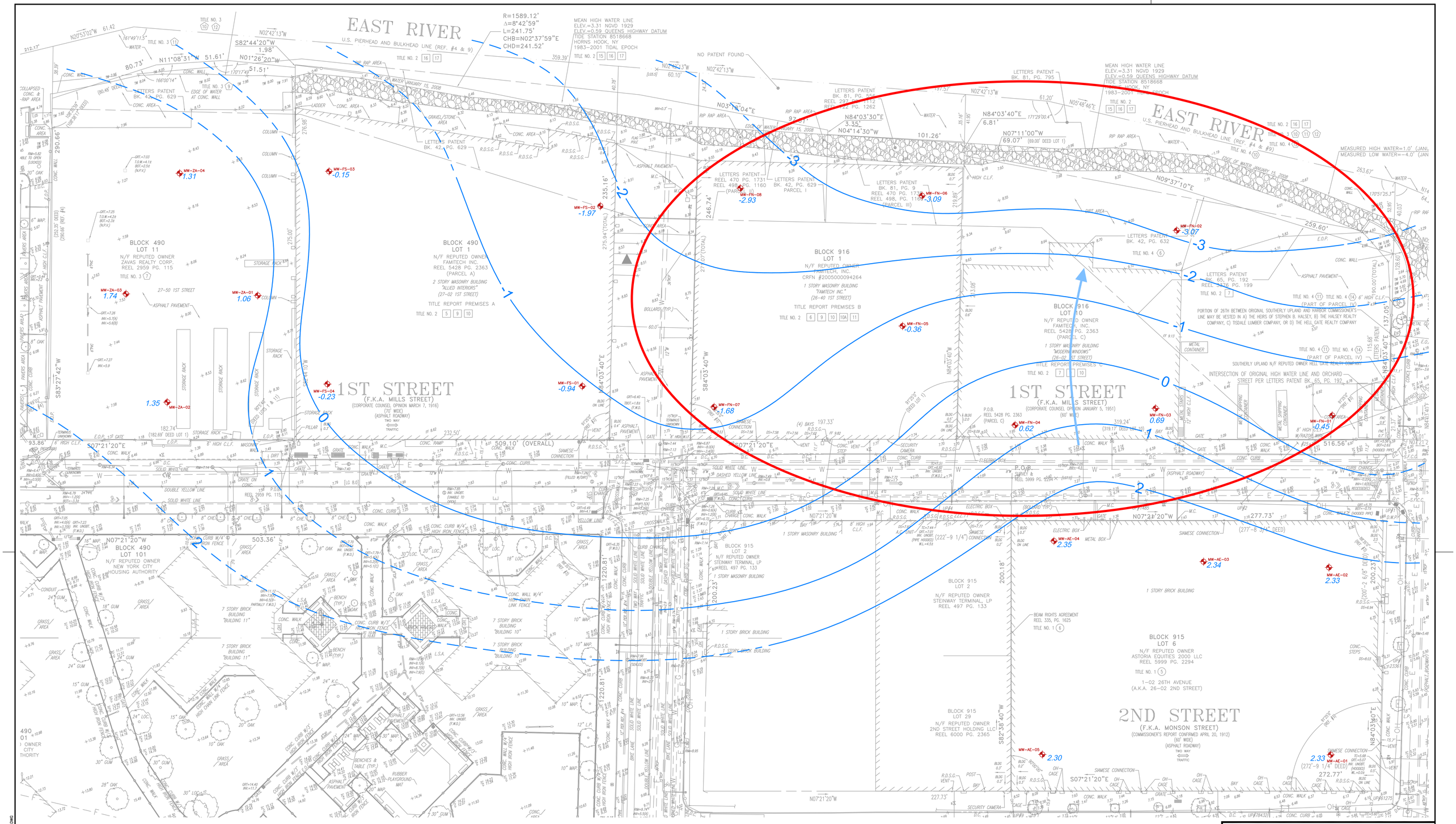
APPENDICES

A. Historic Reports
B. Geophysical Report
C. Soil Boring Logs
D. Groundwater Sampling Logs
E. Soil Vapor Sampling Logs
F. Laboratory Results

PLATES

1. Site Plan
2. Groundwater Elevation Contour Map, December 2013
3. Map of Soil Detections in Excess of Part 375 Restricted Residential SCOs
   - 3a. Soil Detections - Famitech North
   - 3b. Soil Detections - Famitech South
   - 3c. Soil Detections – Zavas
   - 3d. Soil Detections – Astoria Equities
4. Map of Groundwater Detections in Excess of AWQSGVs
   - 4a. Groundwater Detections – Famitech North
   - 4b. Groundwater Detections – Famitech South
   - 4c. Groundwater Detections – Zavas
   - 4d. Groundwater Detections – Astoria Equities
5. Map of Soil Vapor Detections
   - 5a. Soil Vapor Detections – Famitech North
   - 5b. Soil Vapor Detections – Famitech South
   - 5c. Soil Vapor Detections – Zavas
   - 5d. Soil Vapor Detections – Astoria Equities


EAST RIVER
U.S. PIERHEAD AND BULKHEAD LINE (REF. #4 & 9)
MEAN HIGH WATER LINE
ELEV.=3.31 NGVD 1929
ELEV.=0.59 QUEENS HIGHWAY DATUM
TIDE STATION 8518668
HORNS HOOK, NY
1983-2001 TIDAL EPOCH
ZAVAS
BLOCK 490
LOT 11
N/F REPUTED OWNER
ZAVAS REALTY CORP.
REEL 2959 PG. 115
27-50 1ST STREET
FAMITECH SOUTH
BLOCK 490
LOT 1
N/F REPUTED OWNER
FAMITECH INC.
REEL 5428 PG. 2363
(PARCEL A)
2 STORY MASONRY BUILDING
"ALLIED INTERIORS"
(27-02 1ST STREET)
1ST STREET
(F.K.A. MILLS STREET)
(CORPORATE COUNSEL OPINION MARCH 7, 1916)
70' WIDE
(ASPHALT ROADWAY)
TWO WAY TRAFFIC
FAMITECH NORTH
BLOCK 916
LOT 10
N/F REPUTED OWNER
FAMITECH, INC.
REEL 5428 PG. 2363
(PARCEL C)
1 STORY MASONRY BUILDING
"MODERN WINDOWS"
(26-02 1ST STREET)
BLOCK 916
LOT
N/F REPUTED OWNER
FAMITECH, INC.
CRFN #2005000094264
1 STORY MASONRY BUILDING
"FAMITECH INC."
(26-40 1ST STREET)
1ST STREET
(F.K.A. MILLS STREET)
(CORPORATE COUNSEL OPINION JANUARY 5, 1951)
(60' WIDE)
ASTORIA EQUITIES
BLOCK 915
LOT 6
N/F REPUTED OWNER
ASTORIA EQUITIES 2000 LLC
REEL 5995 PG. 2454
1-02 26TH AVENUE
(A.K.A. 26-02 2ND STREET)
BLOCK 915
LOT 2
N/F REPUTED OWNER
STEINWAY TERMINAL, LP
REEL 497 PG. 133
1 STORY MASONRY BUILDING
1 STORY BRICK BUILDING
BLOCK 915
LOT 29
N/F REPUTED OWNER
2ND STREET HOLDING LLC
REEL 6000 PG. 2365
2ND STREET
(F.K.A. MONSON STREET)
(COMMISSIONER'S REPORT CONFIRMED APRIL 20, 1912)
(60' WIDE)
(ASPHALT ROADWAY)
TWO WAY TRAFFIC
BLOCK 490
LOT 101
N/F REPUTED OWNER
NEW YORK CITY
HOUSING AUTHORITY
7 STORY BRICK BUILDING "BUILDING 11"
7 STORY BRICK BUILDING "BUILDING 10"
LETTERS PATENT BK. 42, PG. 629
LETTERS PATENT BK. 42, PG. 632
LETTERS PATENT BK. 65, PG. 192 REEL 3376 PG. 199
LETTERS PATENT REEL 470 PG. 1731 REEL 498 PG. 1160 (PARCEL III)
LETTERS PATENT BK. 81, PG. 9 REEL 5111 PG. 1731 REEL 498, PG. 1160 (PARCEL III)
LETTERS PATENT BK. 81, PG. 795
LETTERS PATENT BK. 81, PG. 556 REEL 297 PG. 1112 REEL 722 PG. 1262
NO PATENT FOUND
BEAM RIGHTS AGREEMENT REEL 335, PG. 1625
SOUTHERLY UPLAND N/F REPUTED OWNER HELL GATE REALTY COMPANY
INTERSECTION OF ORIGINAL HIGH WATER LINE AND ORCHARD STREET PER LETTERS PATENT BK. 65, PG. 192
PORTION OF 26TH BETWEEN ORIGINAL SOUTHERLY UPLAND AND HARBOR COMMISSIONER'S LINE MAY BE VESTED IN A) THE HEIRS OF STEPHEN B. HALSEY, B) THE HALSEY REALTY COMPANY, C) TISDALE LUMBER COMPANY, OR D) THE HELL GATE REALTY COMPANY
MEASURED HIGH WATER=1.0' (JANL
MEASURED LOW WATER=-4.0' (JAN
SV-ZA-01
SV-ZA-02
SV-ZA-03
SV-ZA-04
SV-ZA-05
SV-ZA-06
SV-ZA-07
SV-ZA-08
SV-ZA-09
SV-ZA-10
MW-ZA-01
MW-ZA-02
MW-ZA-03
MW-ZA-04
SB-ZA-01
SB-ZA-02
SB-ZA-03
SV-FS-01
SV-FS-01A
SV-FS-02
SV-FS-03
SV-FS-04
SV-FS-05
SV-FS-06
MW-FS-01
MW-FS-02
MW-FS-03
MW-FS-04
SB-FS-01
SB-FS-02
SB-FS-03
SV-FN-01
SV-FN-02
SV-FN-03
SV-FN-04
SV-FN-05
SV-FN-06
SV-FN-07
SV-FN-08
SV-FN-08A
SV-FN-09
SV-FN-10
SV-FN-11
SV-FN-12
SV-FN-13
SV-FN-14
MW-FN-01
MW-FN-02
MW-FN-03
MW-FN-04
MW-FN-05
MW-FN-06
MW-FN-07
MW-FN-08
SB-FN-01
SB-FN-02
SB-FN-03
SB-FN-04
SB-FN-05
SB-FN-06
SB-FN-07
SB-FN-08
SV-AE-01
SV-AE-02
SV-AE-03
SV-AE-04
SV-AE-04A
SV-AE-05
SV-AE-06
SV-AE-07
SV-AE-08
SV-AE-09
MW-AE-01
MW-AE-02
MW-AE-03
MW-AE-04
MW-AE-05
SB-AE-01
SB-AE-02
SB-AE-03
SB-AE-04
SB-AE-05
SB-AE-06
LEGEND
MW-FN-01 MONITORING WELL LOCATION AND DESIGNATION
SB-FN-01 SOIL BORING LOCATION AND DESIGNATION
SV-FN-02 SOIL VAPOR POINT LOCATION AND DESIGNATION
PROPERTY BOUNDARY
NOTES
1. SAMPLING LOCATION ELEVATIONS WERE SURVEYED ON DECEMBER 23, 2013 BY ANGLE OF ATTACK LAND SURVEYING.
2. ELEVATIONS ARE BASED UPON BOROUGH OF QUEENS HIGHWAY DATUM.
3. SURVEY BASE MAP SOURCED FROM CONTROL POINT ASSOCIATES, INC. FILE C08003.01, DRAWING V-001.1 REVISION 2, DATED 4/9/12.
30' 0 30'
Title:
SITE PLAN
PROJECT H
ASTORIA, NEW YORK
Prepared For:
CONFIDENTIAL INVESTOR
ROUX ASSOCIATES, INC.
Environmental Consulting & Management
Compiled by: L.J. Date: 29JAN14
Prepared by: B.H.C. Scale: AS SHOWN
Project Mgr: J.L. Project: 1338.0010Y000
File: 1338.0010Y103.04.DWG
PLATE 1
V:\CAD\PROJECTS\1338\0010Y\103\1338.0010Y103.04.DWG



LEGEND

MW-FN-01 ⌖	LOCATION AND DESIGNATION OF EXISTING MONITORING WELL
-0.45	GROUNDWATER ELEVATION, IN FEET ABOVE QUEENS BOROUGH DATUM
1 ───	LINE OF EQUAL GROUNDWATER ELEVATION, IN FEET ABOVE QUEENS BOROUGH DATUM (DASHED WHERE INFERRED)
→	ESTIMATED DIRECTION OF GROUNDWATER FLOW

NOTES

1. MONITORING WELL ELEVATIONS AND LOCATIONS WERE SURVEYED ON DECEMBER 23, 2013 BY ANGLE OF ATTACK LAND SURVEYING.
2. ELEVATIONS ARE BASED UPON BOROUGH OF QUEENS HIGHWAY DATUM.
3. SURVEY BASE MAP SOURCED FROM CONTROL POINT ASSOCIATES, INC. FILE C08003.01, DRAWING V–001.1 REVISION 2, DATED 4/9/12.

Title:

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 2013

PROJECT H
ASTORIA, NEW YORK

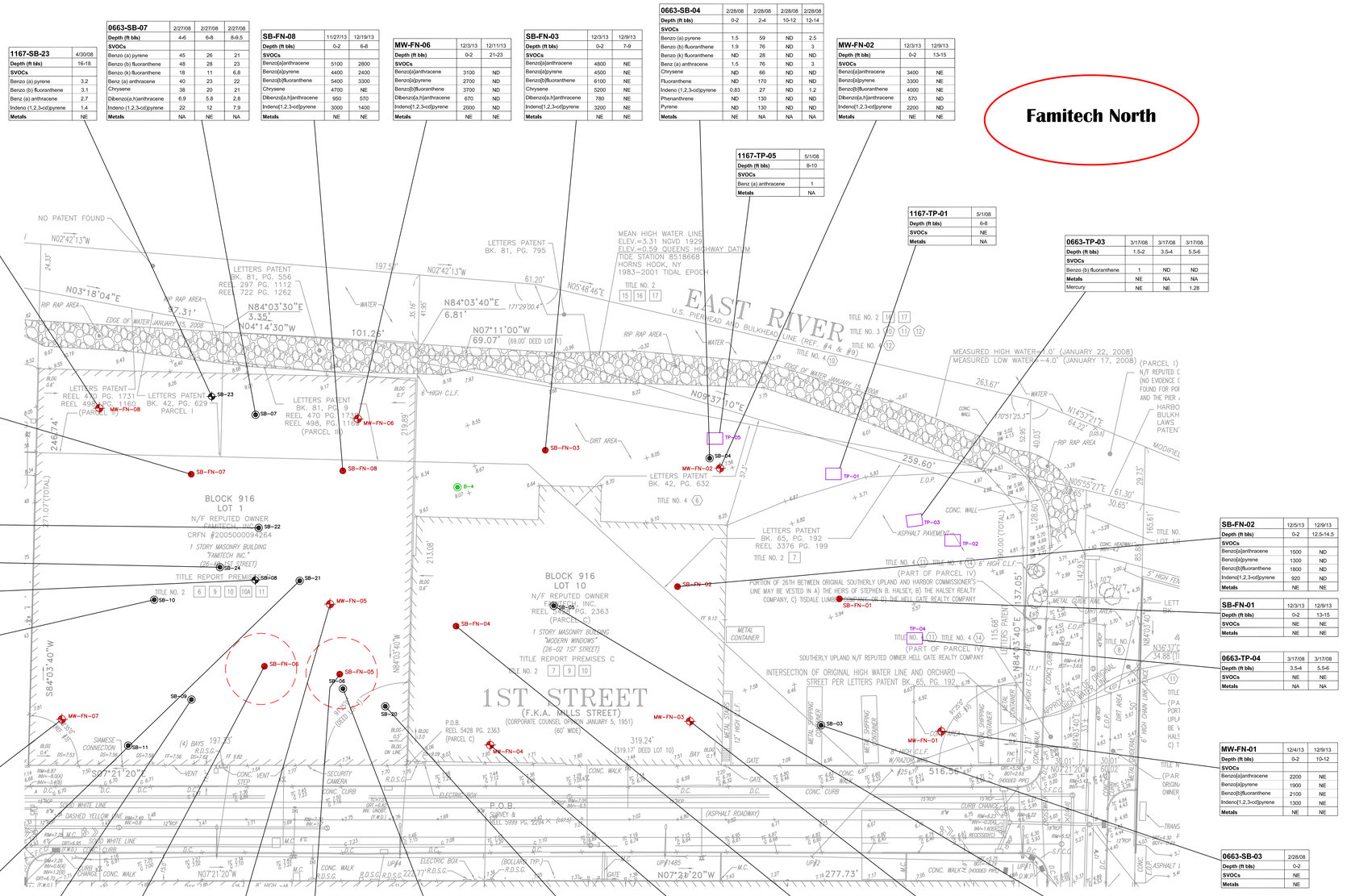
Prepared For:

CONFIDENTIAL INVESTOR

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: L.J.	Date: 29JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.04.DWG		

Famitech North



1167-SB-23	4/30/08
Depth (ft bls)	16-18
SVOCs	
Benzo (a) pyrene	3.2
Benzo (b) fluoranthene	3.1
Benz (a) anthracene	2.7
Indeno (1,2,3-cd)pyrene	1.4
Metals	NE

0663-SB-07	2/27/08	2/27/08	2/27/08
Depth (ft bls)	4-6	6-8	8-9.5
SVOCs			
Benzo (a) pyrene	45	26	21
Benzo (b) fluoranthene	48	28	23
Benzo (k) fluoranthene	18	11	6.8
Benz (a) anthracene	40	23	22
Chrysene	38	20	21
Dibenzo(a,h)anthracene	6.9	5.8	2.8
Indeno (1,2,3-cd)pyrene	22	12	7.9
Metals	NA	NE	NA

SB-FN-08	11/27/13	12/19/13
Depth (ft bls)	0-2	6-8
SVOCs		
Benzo(a)anthracene	5100	2800
Benzo(a)pyrene	4400	2400
Benzo(b)fluoranthene	5400	3300
Chrysene	4700	NE
Dibenzo(a,h)anthracene	950	570
Indeno(1,2,3-cd)pyrene	3000	1400
Metals	NE	NE

MW-FN-06	12/3/13	12/11/13
Depth (ft bls)	0-2	21-23
SVOCs		
Benzo(a)anthracene	3100	ND
Benzo(a)pyrene	2700	ND
Benzo(b)fluoranthene	3700	ND
Dibenzo(a,h)anthracene	670	ND
Indeno(1,2,3-cd)pyrene	2000	ND
Metals	NE	NE

SB-FN-03	12/3/13	12/9/13
Depth (ft bls)	0-2	7-9
SVOCs		
Benzo(a)anthracene	4800	NE
Benzo(a)pyrene	4500	NE
Benzo(b)fluoranthene	6100	NE
Chrysene	5200	NE
Dibenzo(a,h)anthracene	780	NE
Indeno(1,2,3-cd)pyrene	3200	NE
Metals	NE	NE

0663-SB-04	2/28/08	2/28/08	2/28/08	2/28/08
Depth (ft bls)	0-2	2-4	10-12	12-14
SVOCs				
Benzo (a) pyrene	1.5	59	ND	2.5
Benzo (b) fluoranthene	1.9	76	ND	3
Benzo (k) fluoranthene	ND	28	ND	ND
Benz (a) anthracene	1.5	76	ND	3
Chrysene	ND	66	ND	ND
Fluoranthene	ND	170	ND	ND
Indeno (1,2,3-cd)pyrene	0.83	27	ND	1.2
Phenanthrene	ND	130	ND	ND
Pyrene	ND	130	ND	ND
Metals	NE	NA	NA	NA

MW-FN-02	12/3/13	12/9/13
Depth (ft bls)	0-2	13-15
SVOCs		
Benzo(a)anthracene	3400	NE
Benzo(a)pyrene	3300	NE
Benzo(b)fluoranthene	4000	NE
Benzo(k)fluoranthene	570	ND
Indeno(1,2,3-cd)pyrene	2200	ND
Metals	NE	NE

1167-TP-05	5/1/08
Depth (ft bls)	8-10
SVOCs	
Benz (a) anthracene	1
Metals	NA

1167-TP-01	5/1/08
Depth (ft bls)	6-8
SVOCs	NE
Metals	NA

0663-TP-03	3/17/08	3/17/08	3/17/08
Depth (ft bls)	1.5-2	3.5-4	5.5-6
SVOCs			
Benzo (b) fluoranthene	1	ND	ND
Metals	NE	NA	NA
Mercury	NE	NE	1.28

MW-FN-08	12/2/13	12/11/13
Depth (ft bls)	0-2	17-19
SVOCs		
Benzo(a)anthracene	9800	1400
Benzo(a)pyrene	7900	1700
Benzo(b)fluoranthene	10000	1900
Chrysene	9500	NE
Dibenzo(a,h)anthracene	1400	490
Indeno(1,2,3-cd)pyrene	5700	800
Metals		
Arsenic	27	NE

SB-FN-07	12/2/13	12/19/13	12/19/13
Depth (ft bls)	0-2	15-17	15-17
SVOCs			DUP
Acenaphthene	NE	420000	NE
Anthracene	NE	410000	NE
Benzo(a)anthracene	NE	230000	22000
Benzo(a)pyrene	NE	94000	9500 J
Benzo(b)fluoranthene	NE	88000	8800
Benzo(k)fluoranthene	NE	28000 J	NE
Chrysene	NE	360000	34000
Dibenzo[a,h]anthracene	NE	25000 J	ND
Fluoranthene	NE	410000	NE
Fluorene	NE	190000	NE
Indeno(1,2,3-cd)pyrene	530	30000 J	3300 J
Naphthalene	ND	750000	NE
Phenanthrene	NE	4400000 E	410000
Pyrene	NE	470000	NE
Metals			
Arsenic	30	NE	NE
Cadmium	6	NE	NE
Lead	860	NE	NE

1167-SB-22	4/30/08
Depth (ft bls)	8-9
SVOCs	
Benzo (a) pyrene	10
Benzo (b) fluoranthene	9.7
Benzo (k) fluoranthene	4.3
Benz (a) anthracene	6.3
Chrysene	5
Dibenzo(a,h)anthracene	1.5
Indeno (1,2,3-cd)pyrene	3.6
Metals	NE

1167-SB-24	4/30/08
Depth (ft bls)	6-8
SVOCs	
Benzo (a) pyrene	4.1
Benzo (b) fluoranthene	5.3
Benz (a) anthracene	5.6
Chrysene	4.4
Dibenzo(a,h)anthracene	0.72
Indeno (1,2,3-cd)pyrene	1.3
Metals	NE

0663-SB-08	2/29/08
Depth (ft bls)	10-12
SVOCs	NE
Metals	NE

0663-SB-10	2/27/08	2/27/08	2/27/08
Depth (ft bls)	4-6	6-8	8-10.5
SVOCs			
Anthracene	ND	ND	110
Benzo (a) pyrene	25	ND	38
Benzo (b) fluoranthene	28	ND	28
Benzo (k) fluoranthene	14	ND	19
Benz (a) anthracene	39	ND	62
Chrysene	26	ND	71
Fluorene	ND	ND	110
Dibenzo(a,h)anthracene	5.2	ND	ND
Indeno (1,2,3-cd)pyrene	12	ND	11
Naphthalene	ND	ND	540
Phenanthrene	ND	ND	700
Pyrene	ND	ND	120
Metals	NA	NA	NE

MW-FN-07	12/2/13	12/12/13
Depth (ft bls)	0-2	7-9
SVOCs		
Benzo(a)anthracene	1900	ND
Benzo(a)pyrene	1800	ND
Benzo(b)fluoranthene	2400	ND
Dibenzo(a,h)anthracene	380	ND
Indeno(1,2,3-cd)pyrene	1400	ND
Metals	NE	NE

1167-SB-21	4/30/08
Depth (ft bls)	10-12
SVOCs	
Acenaphthylene	160
Anthracene	160
Benzo (a) pyrene	69
Benzo (b) fluoranthene	100
Benzo (k) fluoranthene	49
Benz (a) anthracene	160
Chrysene	130
Dibenzo(a,h)anthracene	16
Fluoranthene	170
Indeno (1,2,3-cd)pyrene	29
Naphthalene	1070
Phenanthrene	590
Pyrene	120
Metals	NE

0633-SB-09	2/27/08
Depth (ft bls)	4-7
SVOCs	NE
Metals	NE

SB-FN-06	12/2/13	12/19/13
Depth (ft bls)	0-2	7-9
SVOCs		
Benzo(a)anthracene	2300	NE
Benzo(a)pyrene	2200	NE
Benzo(b)fluoranthene	2700	NE
Dibenzo(a,h)anthracene	450	ND
Indeno(1,2,3-cd)pyrene	1700	NE
Metals		
Mercury	0.91	NE

MW-FN-05	12/3/13	12/11/13
Depth (ft bls)	0-2	11-13
SVOCs		
Benzo(a)anthracene	6900	1800
Benzo(a)pyrene	6100	1100
Benzo(b)fluoranthene	7200	1300
Chrysene	6500	NE
Dibenzo(a,h)anthracene	1300	NE
Indeno(1,2,3-cd)pyrene	4300	520
Metals		
Arsenic	18	NE

SB-FN-05	12/2/13	12/19/13	12/19/13
Depth (ft bls)	0-2	13-15	13-15
SVOCs			DUP
Benzo(a)anthracene	4000	ND	ND
Benzo(a)pyrene	3500	ND	ND
Benzo(b)fluoranthene	4300	ND	ND
Dibenzo(a,h)anthracene	720	ND	ND
Indeno(1,2,3-cd)pyrene	2600	ND	ND
Metals			
Lead	690	NE	NE
Mercury	0.95	NE	NE

0663-SB-06	2/27/08	2/27/08	2/27/08
Depth (ft bls)	0-2	2-4	4-6
SVOCs			
Benzo (a) pyrene	2.3	6.6	30
Benzo (b) fluoranthene	2.8	7.4	37
Benzo (k) fluoranthene	ND	ND	18
Benz (a) anthracene	2.2	6.8	36
Chrysene	ND	6.4	30
Dibenzo(a,h)anthracene	ND	1.2	3
Indeno (1,2,3-cd)pyrene	1.1	3.3	11
Naphthalene	ND	ND	280
Metals	NA	NA	NE

1167-SB-20	4/30/08
Depth (ft bls)	4-6
SVOCs	
Benzo (a) pyrene	4.7
Benzo (b) fluoranthene	7.4
Benz (a) anthracene	8.4
Chrysene	5.5
Dibenzo(a,h)anthracene	0.68
Indeno (1,2,3-cd)pyrene	1.7
Metals	
Mercury	2.96

MW-FN-04	12/5/13	12/9/13
Depth (ft bls)	0-2	13-15
SVOCs		
Benzo(a)anthracene	1800	ND
Benzo(a)pyrene	1900	ND
Benzo(b)fluoranthene	2300	NE
Dibenzo(a,h)anthracene	340	ND
Indeno(1,2,3-cd)pyrene	1400	ND
Metals	NE	NE

SB-FN-04	12/5/13	12/9/13
Depth (ft bls)	0-2	7-9
SVOCs		
Benzo(a)anthracene	1100	ND
Benzo(a)pyrene	2800	ND
Benzo(b)fluoranthene	3600	NE
Dibenzo(a,h)anthracene	520	ND
Indeno(1,2,3-cd)pyrene	5800	NE
Metals	NE	NE

MW-FN-03	12/5/13	12/13/13
Depth (ft bls)	0-2	10-12
SVOCs		
Benzo(a)anthracene	3000	ND
Benzo(a)pyrene	2900	ND
Benzo(b)fluoranthene	4000	ND
Dibenzo(a,h)anthracene	550	ND
Indeno(1,2,3-cd)pyrene	2200	ND
Metals	NE	NE

0663-SB-05	2/29/08
Depth (ft bls)	4-6
SVOCs	NE
Metals	NA

SB-FN-02	12/5/13	12/9/13
Depth (ft bls)	0-2	12.5-14.5
SVOCs		
Benzo(a)anthracene	1500	ND
Benzo(a)pyrene	1300	ND
Benzo(b)fluoranthene	1800	ND
Indeno(1,2,3-cd)pyrene	920	ND
Metals	NE	NE

SB-FN-01	12/3/13	12/9/13
Depth (ft bls)	0-2	13-15
SVOCs	NE	NE
Metals	NE	NE

0663-TP-04	3/17/08	3/17/08
Depth (ft bls)	3.5-4	5.5-6
SVOCs	NE	NE
Metals	NA	NA

MW-FN-01	12/4/13	12/9/13
Depth (ft bls)	0-2	10-12
SVOCs		
Benzo(a)anthracene	2200	NE
Benzo(a)pyrene	1900	NE
Benzo(b)fluoranthene	2100	NE
Indeno(1,2,3-cd)pyrene	1300	NE
Metals	NE	NE

0663-SB-03	2/28/08
Depth (ft bls)	0-2
SVOCs	NE
Metals	NE

LEGEND

ROUX RI SAMPLING LOCATIONS

- SOIL BORING (SOIL SAMPLE ONLY)
- MONITORING WELL (SOIL AND GROUNDWATER SAMPLES)

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- SURFACE WATER SAMPLE
- TEST PIT
- ESTIMATED LOCATION OF FORMER MANUFACTURED GAS TANKS

TYPICAL DATA BOX INFORMATION

SAMPLE ID → 1167-SB-24	4/30/08 ← SAMPLE DATE
Depth (ft bls) ← SAMPLE DEPTH (ft bls)	6-8
SVOCs	
Benzo (a) pyrene	4.1
Benzo (b) fluoranthene	5.3
ANALYTES → Benz (a) anthracene	5.6
Chrysene	4.4
Dibenzo(a,h)anthracene	0.72
Indeno (1,2,3-cd)pyrene	1.3
Metals	NE

CONCENTRATIONS

Parameter	Standards*
VOCs (µg/kg)	NE
SVOCs (µg/kg)	
Acenaphthene	100000
Anthracene	100000
Benzo[a]anthracene	1000
Benzo[a]pyrene	1000
Benzo[b]fluoranthene	1000
Benzo[k]fluoranthene	3900
Chrysene	3900
Dibenzo[a,h]anthracene	330
Dibenzofuran	59000
Fluoranthene	100000
Fluorene	100000
Indeno[1,2,3-cd]pyrene	500
Naphthalene	100000
Phenanthrene	100000
Pyrene	100000
Metals (mg/kg)	
Arsenic	16
Barium	400
Cadmium	4
Chromium, Trivalent	180
Chromium	180
Copper	270
Lead	400
Mercury	0.81
Nickel	310
PCBs (µg/kg)	NE
Pesticides (µg/kg)	NE

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
* - NYSDEC Part 375 Restricted Residential SCOs
NYSDEC - New York State Department of Envirnonmental Conservation
-- - Not detected above NYSDEC Part 375 Restricted Residential Standards
SCOs - Soil Cleanup Objectives
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedance
ND - No detection
NA - Not analyzed for by laboratory
ft bls - Feet below land surface

NOTES:

1. VOCs were not detected in scill at concentrations in excess of Part 375 Restricted Residential SCOs.
2. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
3. Elevations are based upon borough of Queens highway datum.
4. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

N

30' 0 30'

Title:

SOIL DETECTIONS IN EXCESS OF PART 375 RESTRICTED RESIDENTIAL USE SCOs

FAMITECH NORTH PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	3A
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.02.DWG		

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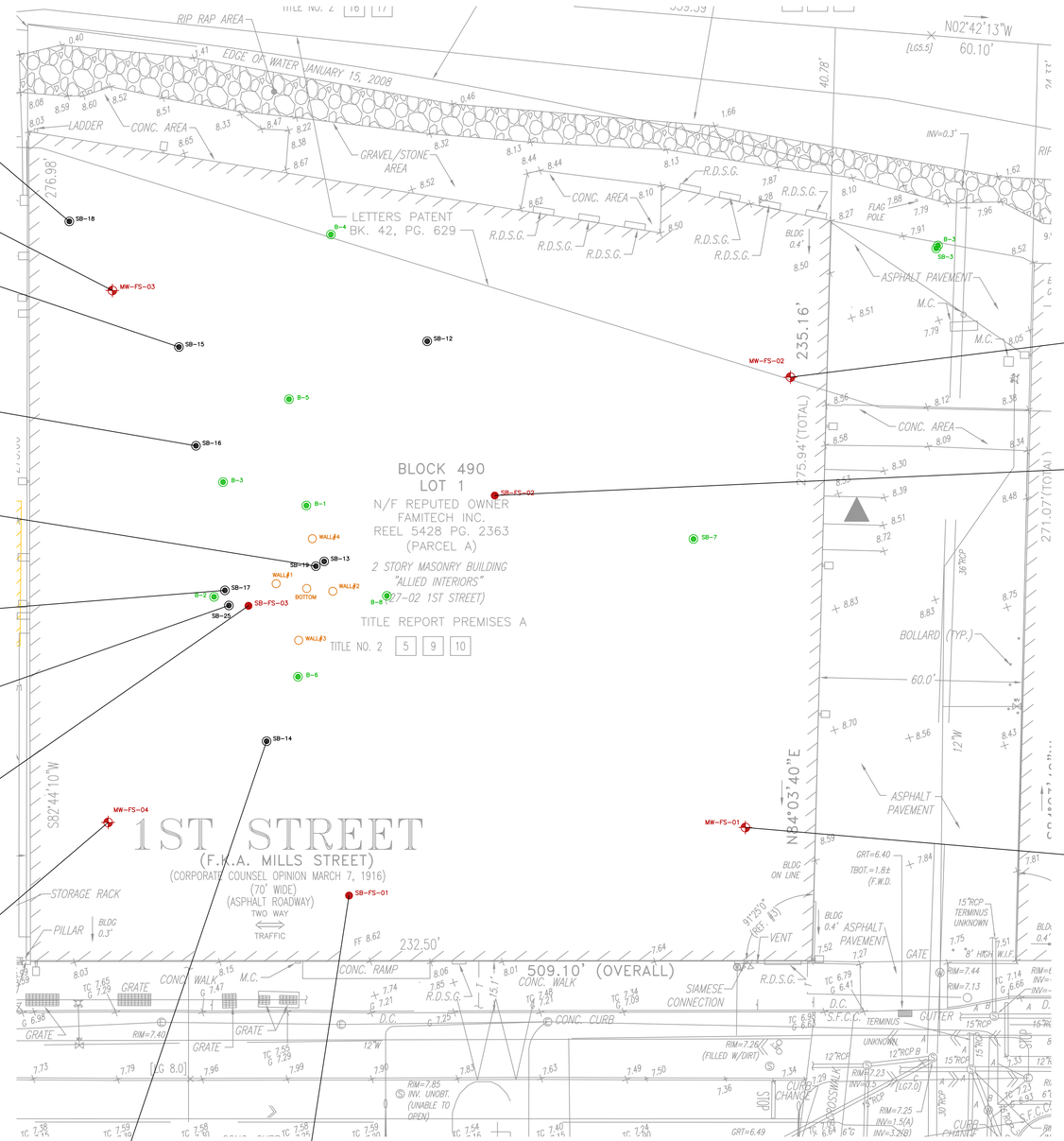

0663-SB-18	3/4/08
Depth (ft bls)	6-9
SVOCs	NE
Metals	NE

MW-FS-03	11/26/13	12/3/13
Depth (ft bls)	0-2	8.5-10.5
SVOCs	NE	NE
Metals	NE	NE

0663-SB-15	2/26/08
Depth (ft bls)	6-8
SVOCs	NE
Metals	NE

0663-SB-16	2/26/08	2/26/08	2/26/08
Depth (ft bls)	0-2	2-4	4-6
SVOCs			
Benzo (a) pyrene	ND	ND	3.4
Benzo (b) fluoranthene	ND	1.1	4.3
Benz (a) anthracene	ND	ND	2.3
Dibenzo(a,h)anthracene	ND	ND	0.6
Indeno (1,2,3-cd)pyrene	ND	ND	1.3
Metals	NA	NA	NE

0663-SB-19	2/26/08	2/26/08	2/26/08
Depth (ft bls)	0-2	2-4	4-6
SVOCs	NA	NA	NE
Metals	NE	NE	NA

0663-SB-17	2/27/08	2/27/08
Depth (ft bls)	2-4	4-5
SVOCs		
Benzo (a) pyrene	1.9	ND
Benzo (b) fluoranthene	2.7	ND
Benz (a) anthracene	2.2	ND
Indeno (1,2,3-cd)pyrene	0.99	ND
Metals		
Copper	591	NA

1167-SB-25	4/30/08
Depth (ft bls)	2-4
SVOCs	NE
Metals	NE

SB-FS-03	11/26/13	12/3/13
Depth (ft bls)	0-2	8-10
SVOCs		
Benzo[a]anthracene	6400	ND
Benzo[a]pyrene	6600	ND
Benzo[b]fluoranthene	7000	ND
Benzo[k]fluoranthene	5300	ND
Chrysene	6100	ND
Dibenzo[a,h]anthracene	2200	ND
Indeno[1,2,3-cd]pyrene	6200	ND
Metals	NE	NE

MW-FS-04	11/26/13	12/3/13
Depth (ft bls)	0-2	7-8
SVOCs	NE	NE
Metals	NE	NE

0663-SB-14	2/27/08
Depth (ft bls)	4-6
SVOCs	NE
Metals	NE

SB-FS-01	11/27/13	12/4/13
Depth (ft bls)	0-2	10-11
SVOCs	NE	NE
Metals	NE	NE

MW-FS-02	11/26/13	12/2/13
Depth (ft bls)	0-2	8-10
SVOCs		
Benzo[a]anthracene	1900	NE
Benzo[a]pyrene	1900	NE
Benzo[b]fluoranthene	2400	NE
Indeno[1,2,3-cd]pyrene	1300	ND
Metals		
Barium	440	NE
Lead	410	NE

SB-FS-02	12/4/13
Depth (ft bls)	0-2
SVOCs	
Benzo[a]anthracene	1800
Benzo[a]pyrene	1600
Benzo[b]fluoranthene	2100
Indeno[1,2,3-cd]pyrene	1000
Metals	
Chromium, Trivalent	200
Chromium	200

MW-FS-01	11/27/13	12/5/13
Depth (ft bls)	0-2	13-14
SVOCs		
Benzo[a]anthracene	2100	ND
Benzo[a]pyrene	1800	ND
Benzo[b]fluoranthene	2200	ND
Dibenzo[a,h]anthracene	NE	ND
Indeno[1,2,3-cd]pyrene	1200	ND
Metals		
Barium	NE	430

LEGEND

ROUX RI SAMPLING LOCATIONS

- SOIL BORING (SOIL SAMPLE ONLY)
- MONITORING WELL (SOIL AND GROUNDWATER SAMPLES)

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- SURFACE WATER SAMPLE
- WALL SOIL SAMPLE

TYPICAL DATA BOX INFORMATION

SB-FS-02	12/4/13
Depth (ft bls)	0-2
SVOCs	
Benzo[a]anthracene	1800
Benzo[a]pyrene	1600
Benzo[b]fluoranthene	2100
Indeno[1,2,3-cd]pyrene	1000
Metals	
Chromium, Trivalent	200

SAMPLE ID — SAMPLE DATE — SAMPLE DEPTH (ft bls) — ANALYTES — CONCENTRATIONS

Parameter	Standards*
VOCs (µg/kg)	NE
SVOCs (µg/kg)	
Acenaphthene	100000
Anthracene	100000
Benzo[a]anthracene	1000
Benzo[a]pyrene	1000
Benzo[b]fluoranthene	1000
Benzo[k]fluoranthene	3900
Chrysene	3900
Dibenzo[a,h]anthracene	330
Dibenzofuran	59000
Fluoranthene	100000
Fluorene	100000
Indeno[1,2,3-cd]pyrene	500
Naphthalene	100000
Phenanthrene	100000
Pyrene	100000
Metals (mg/kg)	
Arsenic	16
Barium	400
Cadmium	4
Chromium, Trivalent	180
Chromium	180
Copper	270
Lead	400
Mercury	0.81
Nickel	310
PCBs (µg/kg)	NE
Pesticides (µg/kg)	NE

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
' - NYSDEC Part 375 Restricted Residential SCOs
NYSDEC - New York State Department of Environmental Conservation
– - Not detected above NYSDEC Part 375 Restricted Residential Standards
SCOs - Soil Cleanup Objectives
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedance
ND - No detection
NA - Not analyzed for by laboratory
ft bls - Feet below land surface

NOTES:

1. VOCs were not detected in soil at concentrations in excess of Part 375 Restricted Residential SCOs.
2. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
3. Elevations are based upon borough of Queens highway datum.
4. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

20' 0 20'

Title:
SOIL DETECTIONS IN EXCESS OF PART 375 RESTRICTED RESIDENTIAL USE SCOs

FAMITECH SOUTH PROPERTY
ASTORIA, NEW YORK

Prepared For:
CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	3B
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.02.DWG		

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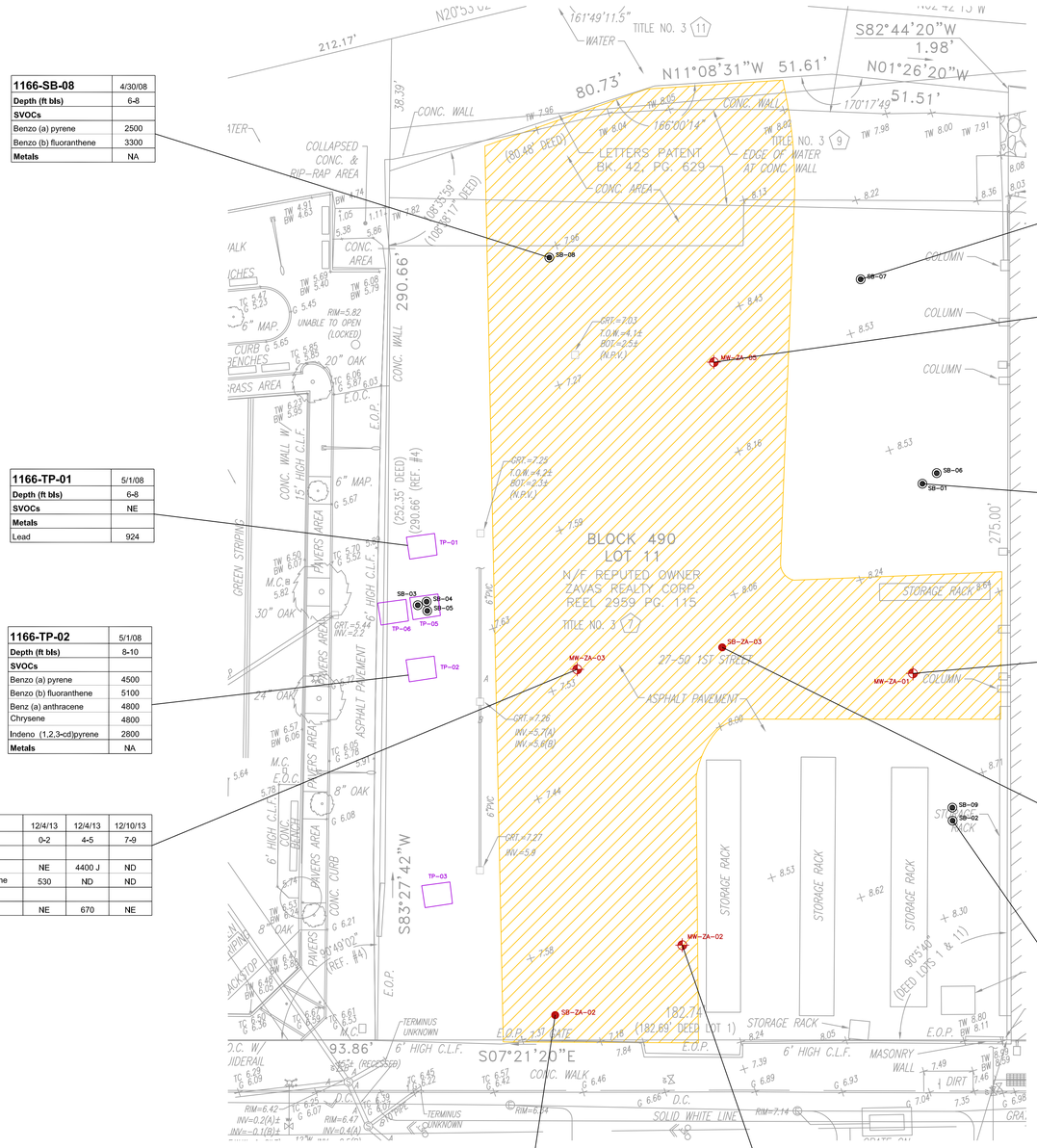

1166-SB-08	4/30/08
Depth (ft bls)	6-8
SVOCs	
Benzo (a) pyrene	2500
Benzo (b) fluoranthene	3300
Metals	NA

1166-TP-01	5/1/08
Depth (ft bls)	6-8
SVOCs	NE
Metals	
Lead	924

1166-TP-02	5/1/08
Depth (ft bls)	8-10
SVOCs	
Benzo (a) pyrene	4500
Benzo (b) fluoranthene	5100
Benz (a) anthracene	4800
Chrysene	4800
Indeno (1,2,3-cd)pyrene	2800
Metals	NA

MW-ZA-03	12/4/13	12/4/13	12/10/13
Depth (ft bls)	0-2	4-5	7-9
SVOCs			
Chrysene	NE	4400 J	ND
Indeno[1,2,3-cd]pyrene	530	ND	ND
Metals			
Copper	NE	670	NE

1166-SB-07	4/30/08
Depth (ft bls)	10-12
SVOCs	
Benzo (a) pyrene	4300
Benzo (b) fluoranthene	5900
Chrysene	10000
Indeno (1,2,3-cd)pyrene	2000
Metals	
Copper	1140
Lead	4370

SB-ZA-04	12/4/13
Depth (ft bls)	0-2
SVOCs	NE
Metals	NE

MW-ZA-04	12/6/13
Depth (ft bls)	9-10
SVOCs	NE
Metals	NE

0635-SB-01	2/26/08	2/26/08	2/26/08
Depth (ft bls)	0-2	2-4	4-6
SVOCs			
Benzo (a) pyrene	NE	2000	ND
Benzo (b) fluoranthene	NE	2600	ND
Benz (a) anthracene	1100	2300	ND
Indeno (1,2,3-cd)pyrene	ND	1200	ND
Metals	NE	NA	NA

MW-ZA-01	12/4/13	12/10/13
Depth (ft bls)	0-2	8-10
SVOCs		
Benzo[a]anthracene	ND	1300
Benzo[a]pyrene	ND	2000
Benzo[b]fluoranthene	ND	1900
Dibenzo[a,h]anthracene	ND	610
Indeno[1,2,3-cd]pyrene	ND	990
Metals	NE	NE

SB-ZA-03	12/4/13	12/4/13	12/10/13
Depth (ft bls)	0-2	4-5	5-6.5
SVOCs			
Acenaphthene	ND	110000	NE
Anthracene	ND	170000	NE
Benzo[a]anthracene	NE	320000	3600
Benzo[a]pyrene	ND	290000	3100
Benzo[b]fluoranthene	NE	330000 E	3600
Benzo[k]fluoranthene	ND	130000	NE
Chrysene	NE	290000	NE
Dibenzo[a,h]anthracene	ND	37000	460
Dibenzofuran	ND	110000	NE
Fluoranthene	NE	880000	NE
Fluorene	ND	130000	NE
Indeno[1,2,3-cd]pyrene	ND	200000	2400
Naphthalene	ND	110000	NE
Phenanthrene	NE	990000	NE
Pyrene	NE	760000	NE
Metals			
Barium	NE	NE	610

0635-SB-02	2/26/08	2/26/08	2/26/08
Depth (ft bls)	0-2	2-4	4-6
SVOCs			
Benzo (a) pyrene	3300	4600	ND
Benzo (b) fluoranthene	4100	6500	ND
Benz (a) anthracene	3300	3400	ND
Chrysene	NE	4100	ND
Dibenzo(a,h)anthracene	860	ND	ND
Indeno (1,2,3-cd)pyrene	2000	3900	ND
Metals			
Copper	NA	293	NA
Lead	NA	733	NA
Mercury	NA	1.4	NA

SB-ZA-02	12/4/13	12/10/13
Depth (ft bls)	0-2	10.5-12.5
SVOCs		
Benzo[a]anthracene	17000	ND
Benzo[a]pyrene	15000	ND
Benzo[b]fluoranthene	18000	ND
Benzo[k]fluoranthene	6600	ND
Chrysene	17000	ND
Dibenzo[a,h]anthracene	2700	ND
Indeno[1,2,3-cd]pyrene	9700	ND
Metals	NE	NE

MW-ZA-02	12/4/13	12/6/13
Depth (ft bls)	0-2	9-11
SVOCs		
Benzo[a]anthracene	NE	10000
Benzo[a]pyrene	NE	4600
Benzo[b]fluoranthene	NE	4000
Chrysene	NE	14000
Dibenzo[a,h]anthracene	ND	940 J
Indeno[1,2,3-cd]pyrene	NE	1500 J
Phenanthrene	NE	220000 E
Metals		
Barium	NE	640
Chromium, Trivalent	NE	270
Chromium	NE	270

LEGEND

ROUX RI SAMPLING LOCATIONS

- SOIL BORING (SOIL SAMPLE ONLY)
- MONITORING WELL (SOIL AND GROUNDWATER SAMPLES)

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- SURFACE WATER SAMPLE
- TEST PIT
- APPROXIMATE EXTENT OF ACCESSIBLE AREA

TYPICAL DATA BOX INFORMATION

SAMPLE ID → MW-ZA-03	12/4/13	12/4/13	12/10/13	← SAMPLE DATE
Depth (ft bls)	0-2	4-5	7-9	← SAMPLE DEPTH (ft bls)
ANALYTES → **SVOCs**				
Chrysene	NE	4400 J	ND	← CONCENTRATIONS
Indeno[1,2,3-cd]pyrene	530	ND	ND	
Metals	NE	NE	NE	

Parameter	Standards*
VOCs (µg/kg)	NE
SVOCs (µg/kg)	
Acenaphthene	100000
Anthracene	100000
Benzo[a]anthracene	1000
Benzo[a]pyrene	1000
Benzo[b]fluoranthene	1000
Benzo[k]fluoranthene	3900
Chrysene	3900
Dibenzo[a,h]anthracene	330
Dibenzofuran	59000
Fluoranthene	100000
Fluorene	100000
Indeno[1,2,3-cd]pyrene	500
Naphthalene	100000
Phenanthrene	100000
Pyrene	100000
Metals (mg/kg)	
Arsenic	16
Barium	400
Cadmium	4
Chromium, Trivalent	180
Chromium	180
Copper	270
Lead	400
Mercury	0.81
Nickel	310
PCBs (µg/kg)	NE
Pesticides (µg/kg)	NE

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
* - NYSDEC Part 375 Restricted Residential SCOs
NYSDEC - New York State Department of Environmental Conservation
-- - Not detected above NYSDEC Part 375 Restricted Residential Standards
SCOs - Soil Cleanup Objectives
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedance
ND - No detection
NA - Not analyzed for by laboratory
ft bls - Feet below land surface

NOTES:

1. VOCs were not detected in soil at concentrations in excess of Part 375 Restricted Residential SCOs.
2. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
3. Elevations are based upon borough of Queens highway datum.
4. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001,1 Revision 2, dated 4/9/12.

N

20' 0 20'

Title:
SOIL DETECTIONS IN EXCESS OF PART 375 RESTRICTED RESIDENTIAL USE SCOs
ZAVAS PROPERTY
ASTORIA, NEW YORK

Prepared For:
CONFIDENTIAL INVESTOR

ROUX
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	3C
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.02.DWG		

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0664-SB-05	3/5/08
Depth (ft bls)	8-10
SVOCs	NE
Metals	NE

MW-AE-03	12/6/13	12/13/13
Depth (ft bls)	0-2	17-19
SVOCs	NE	NE
Metals	NE	NE

0664-SB-04	3/5/08
Depth (ft bls)	8-9.5
SVOCs	NE
Metals	NE

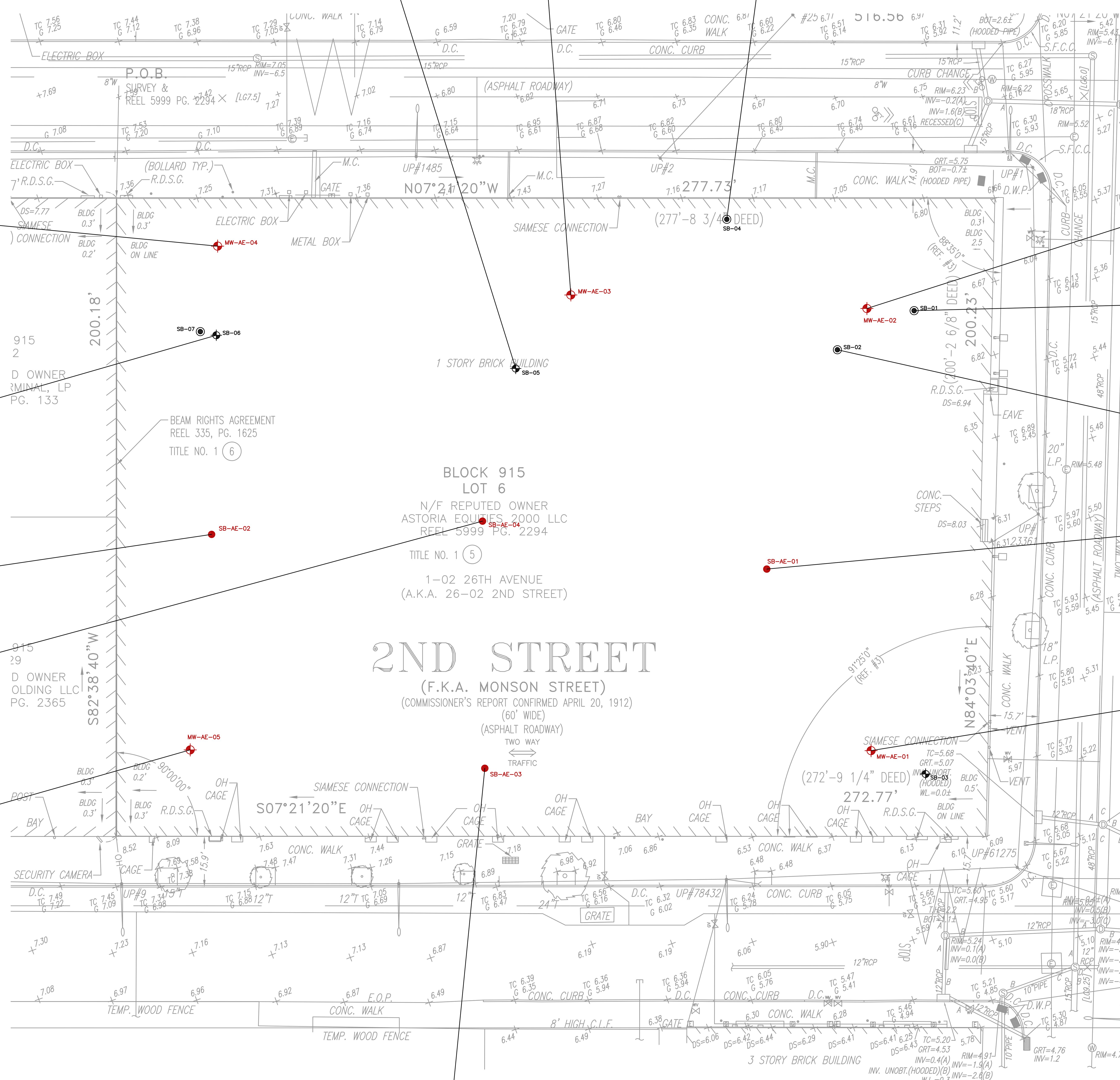
MW-AE-04	12/5/13	12/10/13
Depth (ft bls)	0-2	12-14
SVOCs		
Benzo[a]anthracene	33000 E	ND
Benzo[a]pyrene	26000	ND
Benzo[b]fluoranthene	37000	ND
Benzo[k]fluoranthene	11000	ND
Chrysene	33000 E	ND
Dibenzo[a,h]anthracene	4700	ND
Indeno[1,2,3-cd]pyrene	20000	ND
Metals	NE	NE

0664-SB-06	3/5/08
Depth (ft bls)	2-4
SVOCs	
Benzo (a) pyrene	1500
Benzo (b) fluoranthene	1800
Benz (a) anthracene	2000
Indeno (1,2,3-cd)pyrene	700
Metals	
Mercury	1.71

SB-AE-02	12/5/13	12/12/13
Depth (ft bls)	0-2	13-15
SVOCs	NE	NE
Metals		
Lead	NE	13000

SB-AE-04	12/6/13	12/12/13
Depth (ft bls)	0-2	5-7
SVOCs	NE	NE
Metals		
Mercury	0.92	ND

MW-AE-05	12/6/13	12/18/13
Depth (ft bls)	0-2	18-20
SVOCs		
Benzo[a]anthracene	1300	ND
Benzo[b]fluoranthene	1400	ND
Indeno[1,2,3-cd]pyrene	770	ND
Metals		
Lead	1200	ND



MW-AE-02	12/6/13	12/13/13
Depth (ft bls)	0-2	10-12
SVOCs		
Indeno[1,2,3-cd]pyrene	550	ND
Metals	NE	NE

0664-SB-01	3/6/08
Depth (ft bls)	8-10
SVOCs	NE
Metals	
Nickel	440

0664-SB-02	3/5/08
Depth (ft bls)	6-8
SVOCs	NE
Metals	NE

SB-AE-01	12/6/13	12/12/13
Depth (ft bls)	0-2	7-9
SVOCs	NE	NE
Metals	NE	NE

MW-AE-01	12/6/13	12/18/13
Depth (ft bls)	0-2	11-13
SVOCs	NE	NE
Metals	NE	NE

SB-AE-03	12/6/13	12/6/13
Depth (ft bls)	0-2	2-3
SVOCs		
Benzo[a]anthracene	NE	2000
Benzo[a]pyrene	NE	2100
Benzo[b]fluoranthene	NE	2400
Indeno[1,2,3-cd]pyrene	540	1600
Metals		
Mercury	NE	1.8

LEGEND

ROUX RI SAMPLING LOCATIONS

- SOIL BORING (SOIL SAMPLE ONLY)
- MONITORING WELL (SOIL AND GROUNDWATER SAMPLES)

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)

TYPICAL DATA BOX INFORMATION

SAMPLE ID → ; ← SAMPLE DATE ; ← SAMPLE DEPTH (ft bls) ; ANALYTES ; CONCENTRATIONS

MW-AE-04	12/5/13	12/10/13
Depth (ft bls)	0-2	12-14
SVOCs		
Benzo[a]anthracene	33000 E	ND
Benzo[a]pyrene	26000	ND
Benzo[b]fluoranthene	37000	ND
Benzo[k]fluoranthene	11000	ND
Chrysene	33000 E	ND
Dibenzo[a,h]anthracene	4700	ND
Indeno[1,2,3-cd]pyrene	20000	ND
Metals	NE	NE

Parameter	Standards*
VOCs (µg/kg)	NE
SVOCs (µg/kg)	
Acenaphthene	100000
Anthracene	100000
Benzo[a]anthracene	1000
Benzo[a]pyrene	1000
Benzo[b]fluoranthene	1000
Benzo[k]fluoranthene	3900
Chrysene	3900
Dibenzo[a,h]anthracene	330
Dibenzofuran	59000
Fluoranthene	100000
Fluorene	100000
Indeno[1,2,3-cd]pyrene	500
Naphthalene	100000
Phenanthrene	100000
Pyrene	100000
Metals (mg/kg)	
Arsenic	16
Barium	400
Cadmium	4
Chromium, Trivalent	180
Chromium	180
Copper	270
Lead	400
Mercury	0.81
Nickel	310
PCBs (µg/kg)	NE
Pesticides (µg/kg)	NE

µg/kg - Micrograms per kilogram
mg/kg - Milligrams per kilogram
* - NYSDEC Part 375 Restricted Residential SCOs
NYSDEC - New York State Department of Environmental Conservation
-- - Not detected above NYSDEC Part 375 Restricted Residential Standards
SCOs - Soil Cleanup Objectives
J - Estimated value
DUP - Duplicate Sample
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
PCBs - Polychlorinated Biphenyls
NE - No exceedance
ND - No detection
NA - Not analyzed for by laboratory
ft bls - Feet below land surface

NOTES:

1. VOCs were not detected in soil at concentrations in excess of Part 375 Restricted Residential SCOs.
2. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
3. Elevations are based upon borough of Queens highway datum.
4. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

20' 0 20'

Title:

SOIL DETECTIONS IN EXCESS OF PART 375 RESTRICTED RESIDENTIAL USE SCOs

ASTORIA EQUITIES PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC. Environmental Consulting & Management	Compiled by: J.L.	Date: 28JAN14	PLATE
	Prepared by: B.H.C.	Scale: AS SHOWN	3D
	Project Mgr: J.L.	Project: 1338.0010Y000	
	File: 1338.0010Y103.02.DWG		

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Famitech North

MW-FN-08	12/18/13
Analyte	
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.2
Benzo[a]pyrene	0.21
Benzo[b]fluoranthene	0.26
Benzo[k]fluoranthene	0.11 J
Chrysene	0.19 J
Indeno[1,2,3-cd]pyrene	0.18 J
Metals, Total	
Iron	1210
Selenium	44.7 J
Sodium	7430000
Metals, Filtered	
Iron	1050
Selenium	44.9 J
Sodium	6480000
Pesticides	
Dieldrin	0.015 J

MW-FN-06	12/18/13
Analyte	
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.12 J
Benzo[a]pyrene	0.14 J
Benzo[b]fluoranthene	0.17 J
Chrysene	0.11 J
Metals, Total	
Antimony	4.42 J
Iron	1140
Selenium	47.2 J
Sodium	7220000
Metals, Filtered	
Antimony	4.8 J
Iron	968
Selenium	36.2 J
Sodium	6680000
Thallium	0.76 J
Pesticides	
Dieldrin	0.023 J

MW-FN-02	12/19/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	1410
Selenium	49.5 J
Sodium	6890000
Metals, Filtered	
Iron	1720
Selenium	50.1 J
Sodium	6980000
Pesticides	NE

0663-GW-TP3	3/17/08
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Arsenic	421
Barium	1900
Beryllium	8
Cadmium	10
Chromium	353
Copper	5620
Iron	292000
Lead	18600
Magnesium	626000
Manganese	18800
Mercury	273
Nickel	374
Sodium	4900000
Zinc	5670
Metals, Filtered	NA

0663-GW-SB-08	3/17/08
Analyte	
VOCs	
Benzene	390
Ethylbenzene	94
m&p-Xylene	85
Naphthalene	300
Toluene	81
SVOCs	NA
Metals, Total	
Arsenic	296
Barium	5930
Beryllium	21
Cadmium	35
Chromium	3270
Copper	2940
Iron	887000
Lead	5660
Magnesium	352000
Manganese	15400
Mercury	28.8
Nickel	890
Sodium	419000
Thallium	4
Zinc	10600
Metals, Filtered	NA

1167-SB-08	4/30/08
Analyte	
VOCs	
Benzene	860
Ethylbenzene	510
m&p-Xylene	570
Naphthalene	3500
Toluene	390
SVOCs	
Acenaphthene	100
Naphthalene	1500
Metals, Total	NA
Metals, Filtered	
Iron	25700
Lead	44
Manganese	326
Sodium	301000
Thallium	5

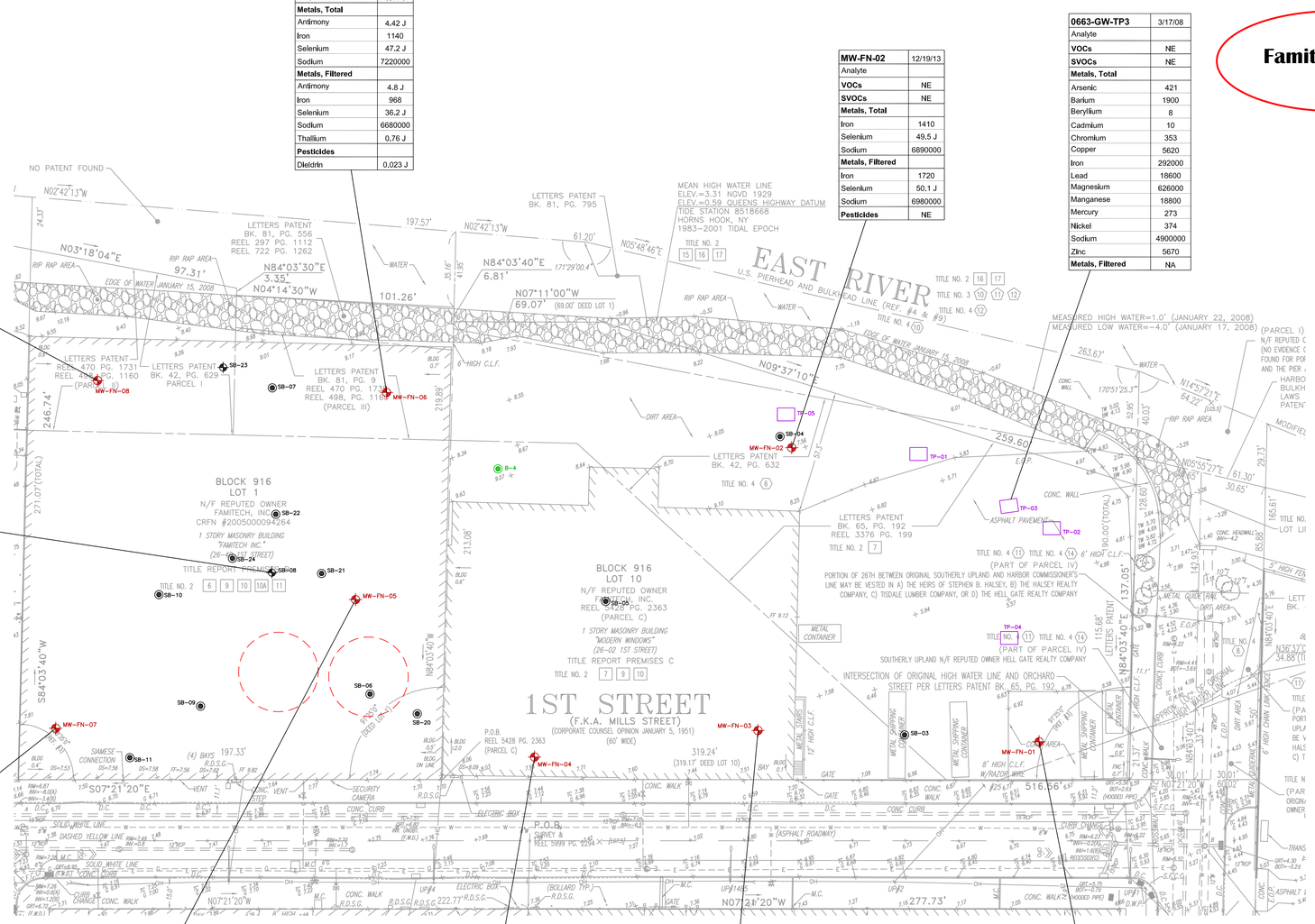
MW-FN-07	12/20/13
Analyte	
VOCs	
Benzene	4.1
SVOCs	NE
Metals, Total	
Chromium	136.3
Iron	26000
Lead	46.81
Manganese	608.1
Sodium	302000
Metals, Filtered	
Iron	392
Manganese	321.5
Sodium	301000
Pesticides	NE

MW-FN-05	12/18/13
Analyte	
VOCs	
Benzene	8.1
Ethylbenzene	7
m+p-Xylene	6.2
Naphthalene	72
Toluene	5.7
SVOCs	
Benzo[a]anthracene	0.32
Chrysene	0.23
Naphthalene	73 E
Metals, Total	
Iron	1700
Selenium	33.4 J
Sodium	5510000
Metals, Filtered	
Iron	1530
Selenium	31.3 J
Sodium	5100000
Pesticides	NE

MW-FN-04	12/19/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Sodium	81500
Metals, Filtered	
Sodium	80600
Pesticides	NE

MW-FN-03	12/19/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	2260
Sodium	169000
Metals, Filtered	
Iron	1260
Sodium	161000
Pesticides	NE

MW-FN-01	12/20/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	3310
Lead	31.06
Sodium	204000
Metals, Filtered	
Iron	485
Sodium	170000
Pesticides	NE



LEGEND

ROUX RI SAMPLING LOCATIONS

- MONITORING WELL

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- TEST PIT
- ESTIMATED LOCATION OF FORMER MANUFACTURED GAS TANKS

TYPICAL DATA BOX INFORMATION

SAMPLE ID → MW-FN-04	12/19/13	← SAMPLE DATE
Analyte		
VOCs	NE	
SVOCs	NE	
Metals, Total		
Sodium	81500	← CONCENTRATIONS (µg/L)
Metals, Filtered		
Sodium	80600	
Pesticides	NE	

ANALYTES

Parameter	Standards* (µg/L)
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Chloroform	7
Ethylbenzene	5
Isopropylbenzene	5
m+p-Xylene	5
Naphthalene	10
n-Propylbenzene	5
o-Xylene	5
p-Isopropyltoluene	5
Styrene	5
Toluene	5
SVOCs	
Acenaphthene	20
Benzo[a]anthracene	0.002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0.002
Benzo[k]fluoranthene	0.002
Chrysene	0.002
Indeno[1,2,3-cd]pyrene	0.002
Naphthalene	10
Phenanthrene	50
Metals	
Antimony	3
Arsenic	25
Barium	1000
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20000
Thallium	0.5
PCBs	NE
Pesticides	
Dieldrin	0.004

Concentrations in µg/L

µg/L -Micrograms per liter

*NYSDEC AWQSGVs

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

– Not detected above NYSDEC AWQSGV

B - Found in laboratory blank

E - Exceeds calibration limit

D - Dilution

J - Estimated value

DUP - Duplicate Sample

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

NE - No exceedances

ND - No detection

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

30' 0 30'

Title:

GROUNDWATER DETECTIONS IN EXCESS OF AWQSGVs

FAMITECH NORTH PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	4A
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.03.DWG		

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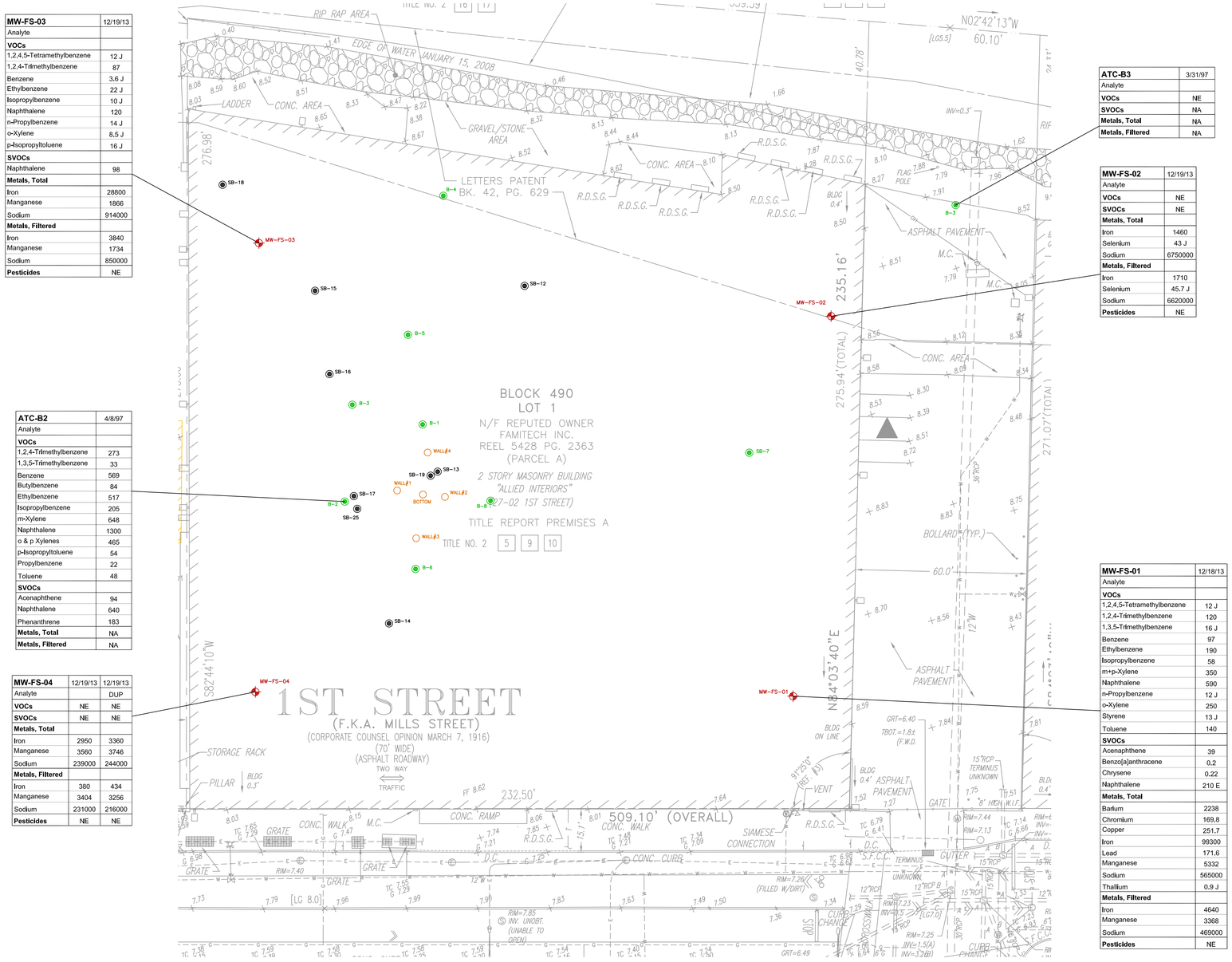

MW-FS-03	12/19/13
Analyte	
VOCs	
1,2,4,5-Tetramethylbenzene	12 J
1,2,4-Trimethylbenzene	87
Benzene	3.6 J
Ethylbenzene	22 J
Isopropylbenzene	10 J
Naphthalene	120
n-Propylbenzene	14 J
o-Xylene	8.5 J
p-Isopropyltoluene	16 J
SVOCs	
Naphthalene	98
Metals, Total	
Iron	28800
Manganese	1866
Sodium	914000
Metals, Filtered	
Iron	3840
Manganese	1734
Sodium	850000
Pesticides	NE

ATC-B3	3/31/97
Analyte	
VOCs	NE
SVOCs	NA
Metals, Total	NA
Metals, Filtered	NA

MW-FS-02	12/19/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	1460
Selenium	43 J
Sodium	6750000
Metals, Filtered	
Iron	1710
Selenium	45.7 J
Sodium	6620000
Pesticides	NE

ATC-B2	4/8/97
Analyte	
VOCs	
1,2,4-Trimethylbenzene	273
1,3,5-Trimethylbenzene	33
Benzene	569
Butylbenzene	84
Ethylbenzene	517
Isopropylbenzene	205
m-Xylene	648
Naphthalene	1300
o & p Xylenes	465
p-Isopropyltoluene	54
Propylbenzene	22
Toluene	48
SVOCs	
Acenaphthene	94
Naphthalene	640
Phenanthrene	183
Metals, Total	NA
Metals, Filtered	NA

MW-FS-04	12/19/13	12/19/13
Analyte		DUP
VOCs	NE	NE
SVOCs	NE	NE
Metals, Total		
Iron	2950	3360
Manganese	3560	3746
Sodium	239000	244000
Metals, Filtered		
Iron	380	434
Manganese	3404	3256
Sodium	231000	216000
Pesticides	NE	NE

MW-FS-01	12/18/13
Analyte	
VOCs	
1,2,4,5-Tetramethylbenzene	12 J
1,2,4-Trimethylbenzene	120
1,3,5-Trimethylbenzene	16 J
Benzene	97
Ethylbenzene	190
Isopropylbenzene	58
m+p-Xylene	350
Naphthalene	590
n-Propylbenzene	12 J
o-Xylene	250
Styrene	13 J
Toluene	140
SVOCs	
Acenaphthene	39
Benzo[a]anthracene	0.2
Chrysene	0.22
Naphthalene	210 E
Metals, Total	
Barium	2238
Chromium	169.8
Copper	251.7
Iron	99300
Lead	171.6
Manganese	5332
Sodium	565000
Thallium	0.9 J
Metals, Filtered	
Iron	4640
Manganese	3368
Sodium	469000
Pesticides	NE

LEGEND

ROUX RI SAMPLING LOCATIONS

- MONITORING WELL

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- WALL SOIL SAMPLE

TYPICAL DATA BOX INFORMATION

SAMPLE ID → **MW-FS-02** | 12/19/13 ← SAMPLE DATE

ANALYTES	
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	1460
Selenium	43 J
Sodium	6750000
Metals, Filtered	
Iron	1710
Selenium	45,7 J
Sodium	6620000
Pesticides	NE

← CONCENTRATIONS (ug/L)

Parameter	Standards* (µg/L)
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Chloroform	7
Ethylbenzene	5
Isopropylbenzene	5
m+p-Xylene	5
Naphthalene	10
n-Propylbenzene	5
o-Xylene	5
p-Isopropyltoluene	5
Styrene	5
Toluene	5
SVOCs	
Acenaphthene	20
Benzo[a]anthracene	0.002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0.002
Benzo[k]fluoranthene	0.002
Chrysene	0.002
Indeno[1,2,3-cd]pyrene	0.002
Naphthalene	10
Phenanthrene	50
Metals	
Antimony	3
Arsenic	25
Barium	1000
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20000
Thallium	0,5
PCBs	NE
Pesticides	
Dieldrin	0,004

Concentrations in µg/L

µg/L - Micrograms per liter

*NYSDEC AWQSGVs

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

-- Not detected above NYSDEC AWQSGV

B - Found in laboratory blank

E - Exceeds calibration limit

D - Dilution

J - Estimated value

DUP - Duplicate Sample

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

NE - No exceedances

ND - No detection

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

N

20' 0 20'

Title:

GROUNDWATER DETECTIONS IN EXCESS OF AWQSGVs

FAMITECH SOUTH PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	4B
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.03.DWG		

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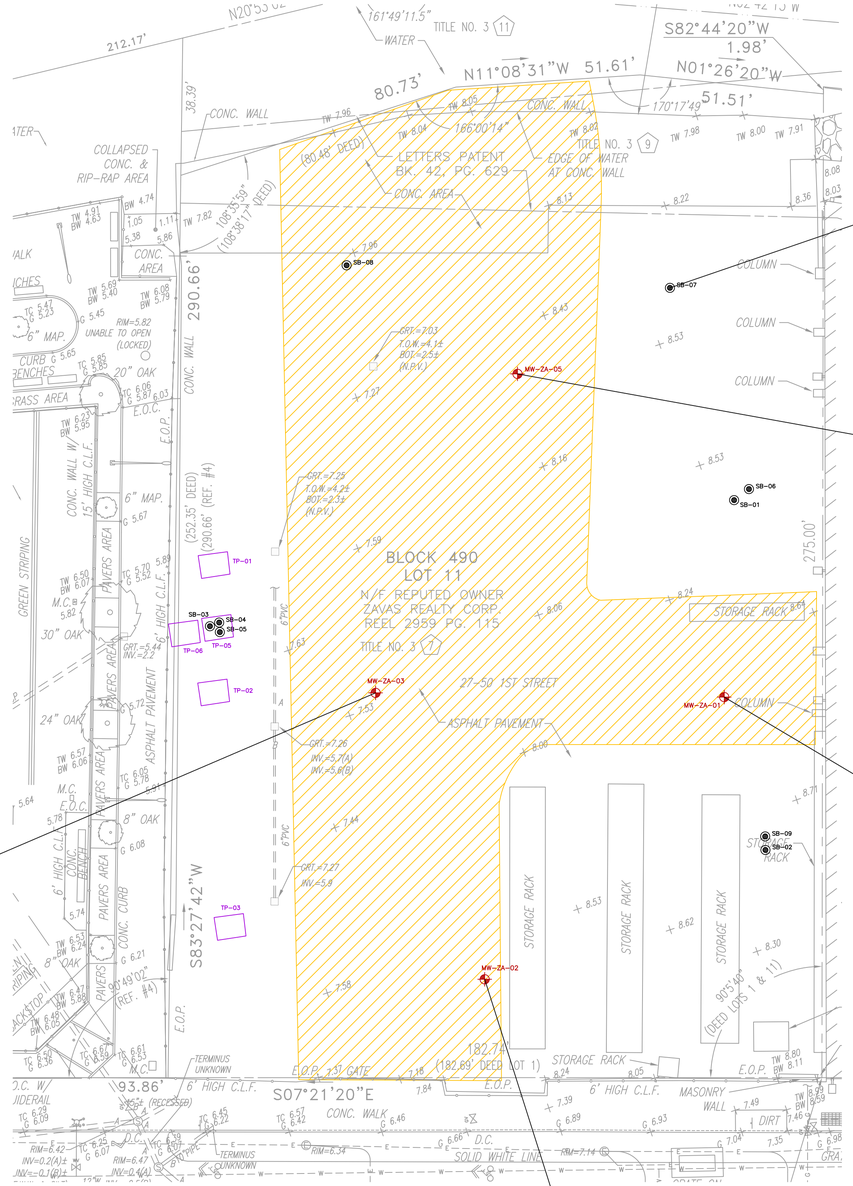

1166-SB-07	5/1/08
Analyte	
SVOCs	
Chrysene	0.011
Metals, Total	
Arsenic	27
Chromium	108
Copper	877
Iron	35800
Lead	1760
Magnesium	84800
Manganese	1480
Sodium	709000
Metals, Filtered	
Iron	663
Lead	138
Magnesium	49900
Manganese	428
Sodium	63700

MW-ZA-05	12/20/13
Analyte	
VOCs	
1,2,4-Trimethylbenzene	7.3 J
Isopropylbenzene	7.6 J
Naphthalene	12
SVOCs	
Acenaphthene	130 E
Benzo[a]anthracene	6
Benzo[a]pyrene	2.8
Benzo[b]fluoranthene	2.5
Benzo[k]fluoranthene	0.92 J
Chrysene	7.4
Indeno[1,2,3-cd]pyrene	1.3
Naphthalene	29
Phenanthrene	120 E
Metals, Total	
Iron	10300
Manganese	784
Sodium	200000
Metals, Filtered	
Iron	877
Manganese	719.2
Sodium	202000
Pesticides	NE

MW-ZA-01	12/19/13
Analyte	
VOCs	
Benzene	2.6
Isopropylbenzene	8
SVOCs	
Benzo[a]anthracene	0.27 J
Chrysene	0.29 J
Metals, Total	
Iron	10900
Manganese	2224
Sodium	252000
Metals, Filtered	
Iron	696
Manganese	1971
Sodium	230000
Pesticides	NE

MW-ZA-03	12/19/13
Analyte	
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.58 J
Chrysene	0.7 J
Metals, Total	
Iron	3010
Manganese	476.7
Sodium	64900
Metals, Filtered	
Iron	481
Manganese	478.1
Sodium	64200
Pesticides	NE

MW-ZA-02	12/19/13
Analyte	
VOCs	
Benzene	2.9
Isopropylbenzene	5.2
SVOCs	
Acenaphthene	54
Phenanthrene	68
Metals, Total	
Iron	18900
Manganese	3788
Sodium	484000
Metals, Filtered	
Iron	12100
Manganese	3912
Sodium	505000
Pesticides	NE

LEGEND

ROUX RI SAMPLING LOCATIONS

- MONITORING WELL

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)
- TEST PIT
- APPROXIMATE EXTENT OF ACCESSIBLE AREA

TYPICAL DATA BOX INFORMATION

SAMPLE ID → **MW-ZA-03** | 12/19/13 ← SAMPLE DATE

Analyte	
VOCs	NE
SVOCs	
Benzo[a]anthracene	0.58 J
Chrysene	0.7 J
Metals, Total	
Iron	3010
Manganese	476.7
Sodium	64900
Metals, Filtered	
Iron	481
Manganese	478.1
Sodium	64200
Pesticides	NE

ANALYTES → CONCENTRATIONS (ug/L)

Parameter	Standards* (µg/L)
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Chloroform	7
Ethylbenzene	5
Isopropylbenzene	5
m+p-Xylene	5
Naphthalene	10
n-Propylbenzene	5
o-Xylene	5
p-Isopropyltoluene	5
Styrene	5
Toluene	5
SVOCs	
Acenaphthene	20
Benzo[a]anthracene	0.002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0.002
Benzo[k]fluoranthene	0.002
Chrysene	0.002
Indeno[1,2,3-cd]pyrene	0.002
Naphthalene	10
Phenanthrene	50
Metals	
Antimony	3
Arsenic	25
Barium	1000
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20000
Thallium	0.5
PCBs	NE
Pesticides	
Dieldrin	0.004

Concentrations in µg/L

µg/L -Micrograms per liter

*NYSDEC AWQSGVs

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

-- Not detected above NYSDEC AWQSGV

B - Found in laboratory blank

E - Exceeds calibration limit

D - Dilution

J - Estimated value

DUP - Duplicate Sample

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

NE - No exceedances

ND - No detection

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

N

20' 0 20'

Title:

GROUNDWATER DETECTIONS IN EXCESS OF AWQSGVs

ZAVAS PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE	
Prepared by: B.H.C.	Scale: AS SHOWN		4C
Project Mgr: J.L.	Project: 1338.0010Y000		
File: 1338.0010Y103.03.DWG			

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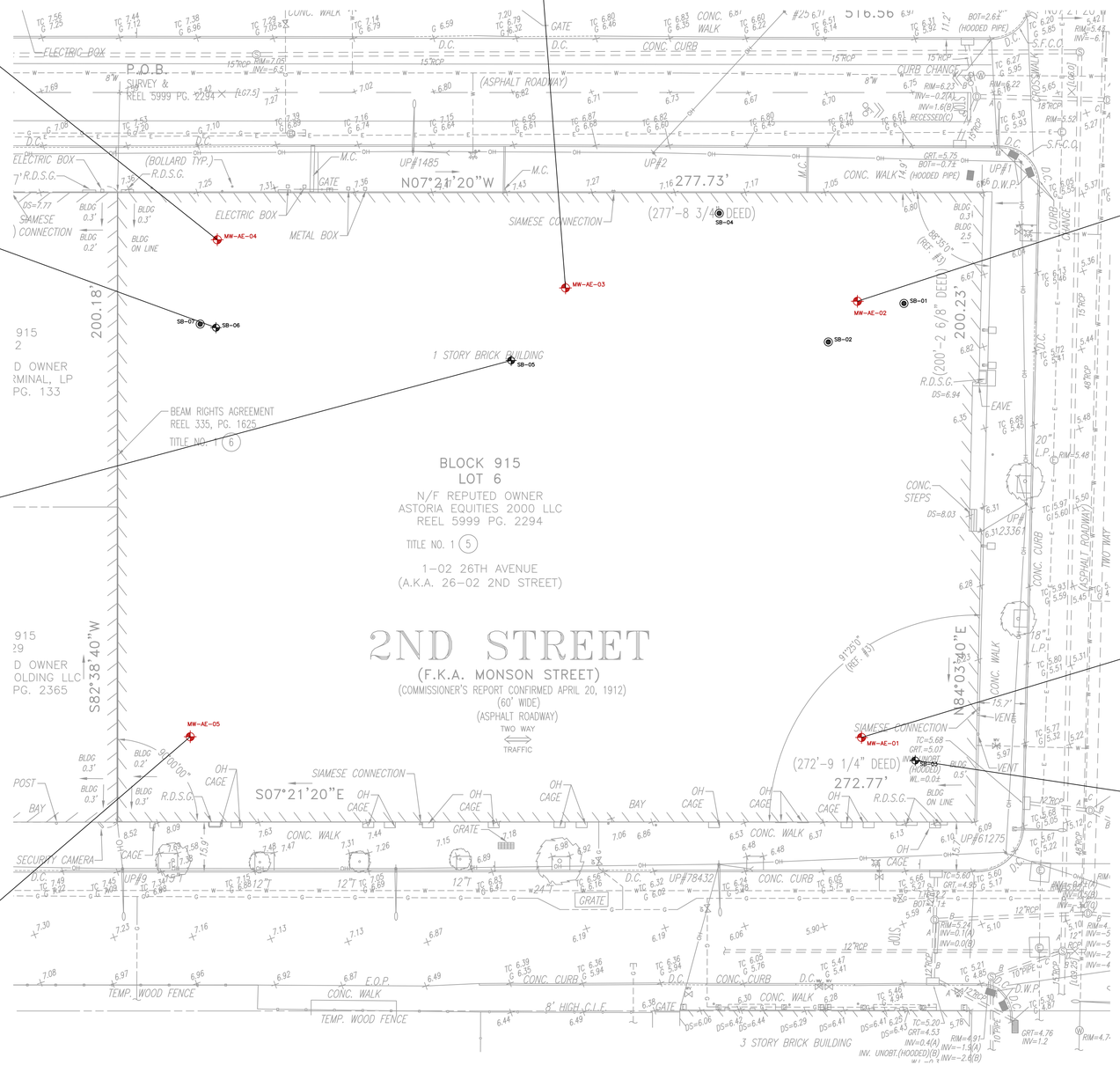

MW-AE-04	12/20/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Antimony	3.09
Iron	1120
Sodium	418000
Metals, Filtered	
Antimony	3.22
Iron	633
Sodium	393000
Pesticides	NE

MW-AE-03	12/20/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	563
Sodium	106000
Metals, Filtered	
Sodium	97300
Pesticides	NE

MW-AE-02	12/20/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	302
Sodium	25900
Metals, Filtered	
Sodium	25600
Pesticides	NE

0664-GW-SB-06	3/17/08
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Arsenic	55
Barium	1080
Beryllium	5
Chromium	197
Copper	374
Iron	162000
Lead	3470
Manganese	3030
Nickel	140
Thallium	3
Metals, Filtered	NA

1168-GW-SB-06	4/30/08
Analyte	
VOCs	
Naphthalene	24
SVOCs	
Naphthalene	18
Metals, Total	
Iron	1160
Lead	31
Metals, Filtered	NA

0664-GW-SB-05	3/17/08
Analyte	
VOCs	NE
SVOCs	
Acenaphthene	54
Phenanthrene	62
Metals, Total	
Arsenic	55
Barium	2370
Beryllium	10
Chromium	231
Copper	437
Iron	246000
Lead	3430
Magnesium	66700
Manganese	9760
Mercury	9
Nickel	176
Sodium	115000
Thallium	3
Metals, Filtered	NA

1168-GW-SB-05	4/30/08
Analyte	
VOCs	
Ethylbenzene	6.4
m&p-Xylene	6.9
Naphthalene	130
SVOCs	
Acenaphthene	21
Naphthalene	78
Metals, Total	NA
Metals, Filtered	
Chromium	85
Iron	8200
Manganese	3120
Sodium	88800

MW-AE-05	12/20/13
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Iron	43500
Lead	281.2
Manganese	2764
Sodium	113000
Metals, Filtered	
Iron	20200
Manganese	2623
Sodium	113000
Pesticides	NE

MW-AE-01	12/20/13
Analyte	
VOCs	
Chloroform	11
SVOCs	NE
Metals, Total	
Iron	518
Sodium	32000
Metals, Filtered	
Sodium	28800
Pesticides	NE

0664-GW-SB-03	3/17/08
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
Arsenic	81
Barium	1170
Cadmium	7
Chromium	284
Copper	834
Iron	113000
Lead	1960
Magnesium	55300
Manganese	7190
Mercury	6.8
Nickel	421
Sodium	313000
Thallium	3
Zinc	2040
Metals, Filtered	NA

1168-GW-SB-03	4/30/08
Analyte	
VOCs	
Benzene	5.8
Ethylbenzene	7.9
m&p-Xylene	8.1
Naphthalene	42
SVOCs	
Naphthalene	37
Metals, Total	NA
Metals, Filtered	
Iron	6010
Lead	33
Manganese	1080
Sodium	28000

LEGEND

ROUX RI SAMPLING LOCATIONS

- MONITORING WELL

FORMER PHASE II SAMPLING LOCATIONS

- SOIL BORING
- SOIL BORING (ATC ASSOCIATES INC.)
- MONITORING WELL (NOT IDENTIFIED DURING 11/11/13 SITE WALK)

TYPICAL DATA BOX INFORMATION

SAMPLE ID → MW-AE-02	12/20/13 ← SAMPLE DATE
Analyte	
VOCs	NE
SVOCs	NE
Metals, Total	
ANALYTES → Iron	302
Sodium	25900
Metals, Filtered	
Sodium	25600
Pesticides	NE

CONCENTRATIONS (ug/L)

Parameter	Standards* (µg/L)
VOCs	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Chloroform	7
Ethylbenzene	5
Isopropylbenzene	5
m+p-Xylene	5
Naphthalene	10
n-Propylbenzene	5
o-Xylene	5
p-Isopropyltoluene	5
Styrene	5
Toluene	5
SVOCs	
Acenaphthene	20
Benzo[a]anthracene	0.002
Benzo[a]pyrene	0
Benzo[b]fluoranthene	0.002
Benzo[k]fluoranthene	0.002
Chrysene	0.002
Indeno[1,2,3-cd]pyrene	0.002
Naphthalene	10
Phenanthrene	50
Metals	
Antimony	3
Arsenic	25
Barium	1000
Chromium	50
Copper	200
Iron	300
Lead	25
Manganese	300
Selenium	10
Sodium	20000
Thallium	0.5
PCBs	NE
Pesticides	
Dieldrin	0.004

Concentrations in µg/L

µg/L -Micrograms per liter

*NYSDEC AWQSGVs

NYSDEC - New York State Department of Environmental Conservation

AWQSGVs - Ambient Water-Quality Standards and Guidance Values

– Not detected above NYSDEC AWQSGV

B - Found in laboratory blank

E - Exceeds calibration limit

D - Dilution

J - Estimated value

DUP - Duplicate Sample

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

PCBs - Polychlorinated Biphenyls

NE - No exceedances

ND - No detection

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

20' 0 20'

Title:

GROUNDWATER DETECTIONS IN EXCESS OF AWQSGVs

ASTORIA EQUITIES PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 28JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	4D
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.03.DWG		

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Famitech North

SV-FN-10	12/17/13
Analyte	
VOCs	
Acetone	12.1
Dichlorodifluoromethane	2.91
m+p-Xylene	6.25
o-Xylene	2.56
Tetrachloroethene	8.34
Toluene	3.84

SV-FN-07	12/17/13
Analyte	
VOCs	
Toluene	19

SV-FN-06	12/17/13
Analyte	
VOCs	
Chloroform	18.6

SV-FN-11	12/17/13
Analyte	
VOCs	
1,2,4-Trimethylbenzene	1,27
2-Butanone (MEK)	0,628
Acetone	6,77
Chloroform	3,99
Chloromethane	0.518
Dichlorodifluoromethane	2.78
Ethanol	5,95
Ethylbenzene	2.57
m+p-Xylene	11,1
MTBE	0.883
n-Hexane	0.966
o-Xylene	4,73
Tetrachloroethene	15,7
Toluene	9.57
Trichlorofluoromethane	1.76

SV-FN-04	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	220
1,1-Dichloroethane	1,42
1,2,4-Trimethylbenzene	1,72
2-Butanone (MEK)	0,684
Acetone	11
Benzene	0,764
Carbon disulfide	1.02
Chloroform	1,88
Dichlorodifluoromethane	2,76
Ethylbenzene	14,4
m+p-Xylene	24,8
n-Hexane	0.835
o-Xylene	18,8
Propene	1,27
Tetrachloroethene	50,9
Toluene	2,43
Trichlorofluoromethane	25.3

SV-FN-08	12/17/13
Analyte	
VOCs	
Acetone	10,1
Chloroform	3.71
Dichlorodifluoromethane	2.92
Ethanol	19
m+p-Xylene	6.86
o-Xylene	2.74
Tetrachloroethene	11.3
Toluene	9.95

SV-FN-08A	12/17/13
Analyte	
VOCs	
1,2,4-Trimethylbenzene	1,64
2-Butanone (MEK)	0.628
Acetone	8,67
Carbon disulfide	1,21
Chloroform	6,49
Dichlorodifluoromethane	3,06
Ethylbenzene	1,34
m+p-Xylene	5,39
o-Xylene	2,12
Tetrachloroethene	14,1
Tetrahydrofuran	0,613
Toluene	5,16
Trichlorofluoromethane	1,53

SV-FN-09	12/17/13
Analyte	
VOCs	
1,2,4-Trimethylbenzene	3.01
2-Butanone (MEK)	1.76
Acetone	7.84
Benzene	2.39
Carbon disulfide	0.919
Chloroform	1.38
Chloromethane	0.417
Cyclohexane	2.57
Dichlorodifluoromethane	2.95
Ethanol	25.2
Ethylbenzene	2.23
Heptane	3.27
Isooctane	4.57
Isopropanol	1.6
m+p-Xylene	8.51
n-Hexane	9.37
o-Xylene	3.12
Propene	1.53
Tetrachloroethene	18.2
Toluene	10.9
Trichlorofluoromethane	1.72

SV-FN-14	12/17/13
Analyte	
VOCs	
Acetone	43,2
Ethanol	35,2
Propene	13,1
Tetrachloroethene	11
Toluene	4,75

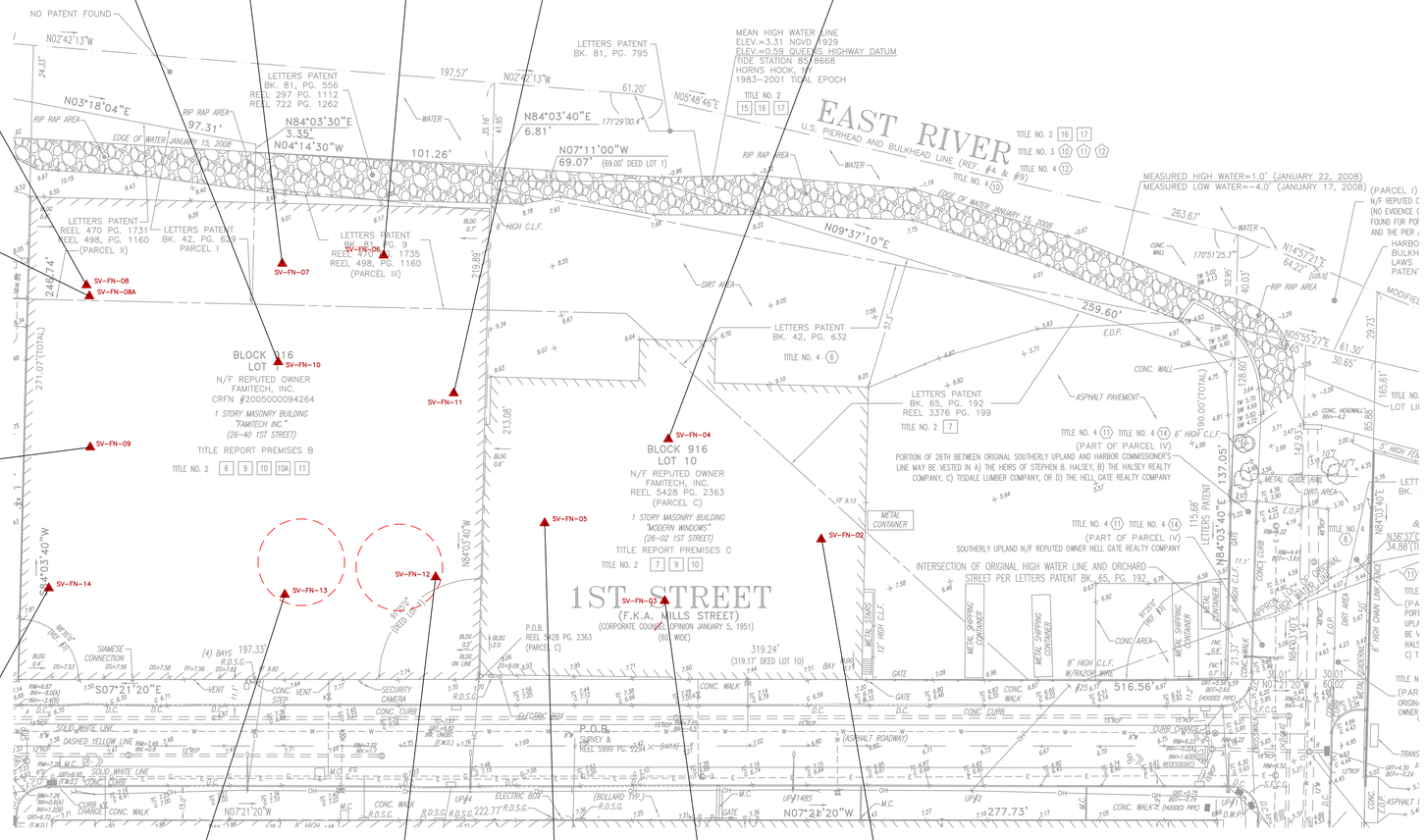
SV-FN-13	12/17/13
Analyte	
VOCs	
Acetone	18,1
Toluene	3.77

SV-FN-12	12/17/13
Analyte	
VOCs	
Acetone	24,2

SV-FN-05	12/17/13
Analyte	
VOCs	
Tetrachloroethene	16,4
Trichlorofluoromethane	12,6

SV-FN-03	12/17/13
Analyte	
VOCs	
Chloroform	18,4

SV-FN-02	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	33,8
Acetone	325
Ethanol	47,7
Isopropanol	14,9
Trichlorofluoromethane	18,7



LEGEND

ROUX RI SAMPLING LOCATIONS

▲ SOIL VAPOR POINT

ESTIMATED LOCATION OF FORMER MANUFACTURED GAS TANKS

TYPICAL DATA BOX INFORMATION

SAMPLE ID	SV-FN-14	12/17/13	SAMPLE DATE
	Analyte		
ANALYTES	**VOCs**		
	Acetone	43.2	CONCENTRATIONS (ug/m³)
	Ethanol	35.2	
	Propene	13.1	
	Tetrachloroethene	11	
	Toluene	4.75	

Concentrations in µg/m³
µg/m³ -Micrograms per cublic meter
VOCs - Volatile Organic Compounds
ND - Compound was analyzed for but not detected

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

N

30' 0 30'

Title:

SOIL VAPOR DETECTIONS

FAMITECH NORTH PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 29JAN14		PLATE
Prepared by: B.H.C.	Scale: AS SHOWN		5A
Project Mgr: J.L.	Project: 1338.0010Y000		
File: 1338.0010Y103.01.DWG			

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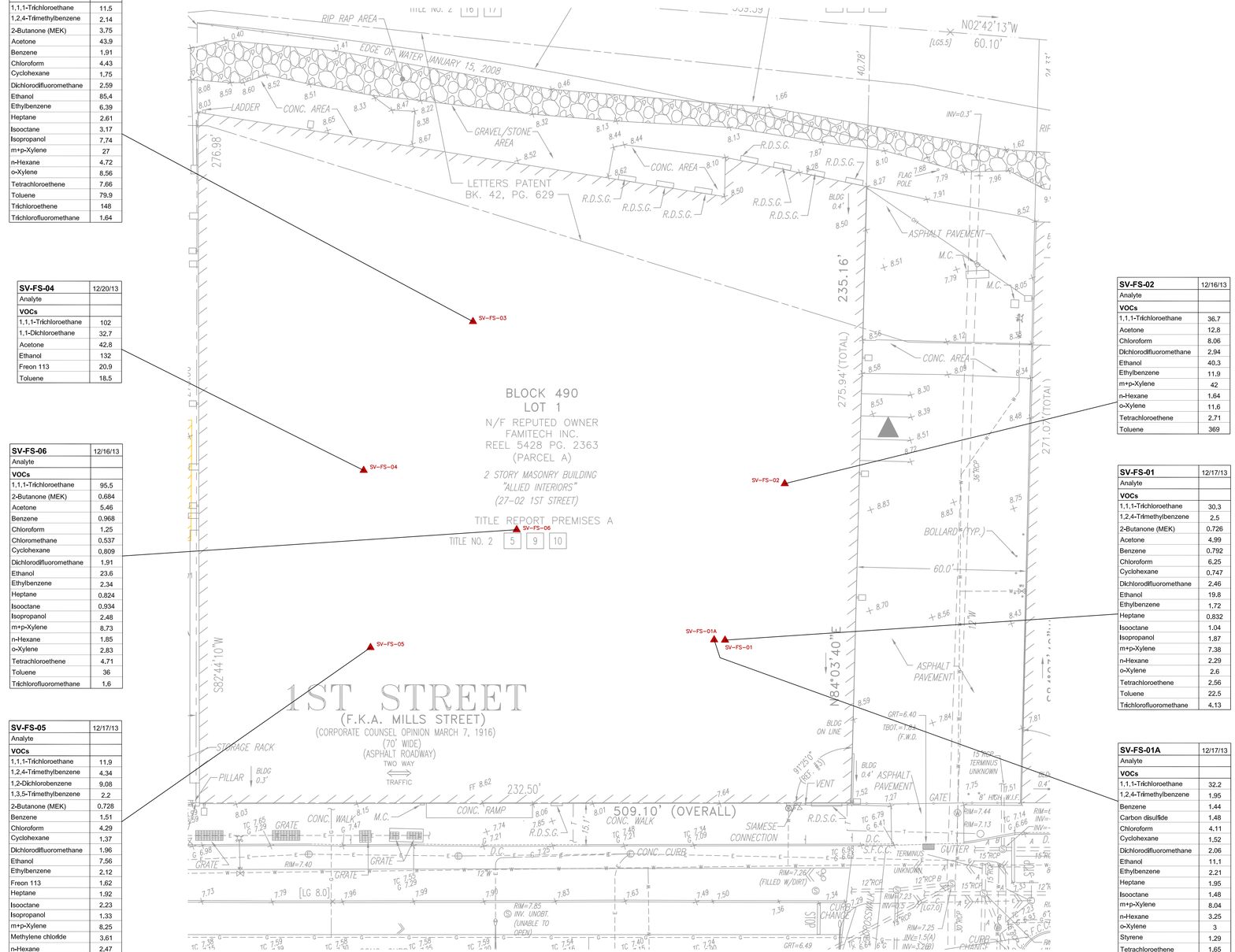
SV-FS-03	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	11.5
1,2,4-Trimethylbenzene	2.14
2-Butanone (MEK)	3.75
Acetone	43.9
Benzene	1.91
Chloroform	4.43
Cyclohexane	1.75
Dichlorodifluoromethane	2.59
Ethanol	85.4
Ethylbenzene	6.39
Heptane	2.61
Isooctane	3.17
Isopropanol	7.74
m+p-Xylene	27
n-Hexane	4.72
o-Xylene	8.56
Tetrachloroethene	7.66
Toluene	79.9
Trichloroethene	148
Trichlorofluoromethane	1.64

SV-FS-04	12/20/13
Analyte	
VOCs	
1,1,1-Trichloroethane	102
1,1-Dichloroethane	32.7
Acetone	42.8
Ethanol	132
Freon 113	20.9
Toluene	18.5

SV-FS-06	12/16/13
Analyte	
VOCs	
1,1,1-Trichloroethane	95.5
2-Butanone (MEK)	0.684
Acetone	5.46
Benzene	0.968
Chloroform	1.25
Chloromethane	0.537
Cyclohexane	0.809
Dichlorodifluoromethane	1.91
Ethanol	23.6
Ethylbenzene	2.34
Heptane	0.824
Isooctane	0.934
Isopropanol	2.48
m+p-Xylene	8.73
n-Hexane	1.85
o-Xylene	2.83
Tetrachloroethene	4.71
Toluene	36
Trichlorofluoromethane	1.6

SV-FS-05	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	11.9
1,2,4-Trimethylbenzene	4.34
1,2-Dichlorobenzene	9.08
1,3,5-Trimethylbenzene	2.2
2-Butanone (MEK)	0.728
Benzene	1.51
Chloroform	4.29
Cyclohexane	1.37
Dichlorodifluoromethane	1.96
Ethanol	7.56
Ethylbenzene	2.12
Freon 113	1.62
Heptane	1.92
Isooctane	2.23
Isopropanol	1.33
m+p-Xylene	8.25
Methylene chloride	3.61
n-Hexane	2.47
o-Xylene	3.29
Tetrachloroethene	138
Toluene	14.8
Trichloroethene	4.4
Trichlorofluoromethane	1.34



SV-FS-02	12/16/13
Analyte	
VOCs	
1,1,1-Trichloroethane	36.7
Acetone	12.8
Chloroform	8.06
Dichlorodifluoromethane	2.94
Ethanol	40.3
Ethylbenzene	11.9
m+p-Xylene	42
n-Hexane	1.64
o-Xylene	11.6
Tetrachloroethene	2.71
Toluene	369

SV-FS-01	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	30.3
1,2,4-Trimethylbenzene	2.5
2-Butanone (MEK)	0.726
Acetone	4.99
Benzene	0.792
Chloroform	6.25
Cyclohexane	0.747
Dichlorodifluoromethane	2.46
Ethanol	19.8
Ethylbenzene	1.72
Heptane	0.832
Isooctane	1.04
Isopropanol	1.87
m+p-Xylene	7.38
n-Hexane	2.29
o-Xylene	2.6
Tetrachloroethene	2.56
Toluene	22.5
Trichlorofluoromethane	4.13

SV-FS-01A	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	32.2
1,2,4-Trimethylbenzene	1.95
Benzene	1.44
Carbon disulfide	1.48
Chloroform	4.11
Cyclohexane	1.52
Dichlorodifluoromethane	2.06
Ethanol	11.1
Ethylbenzene	2.21
Heptane	1.95
Isooctane	1.48
m+p-Xylene	8.04
n-Hexane	3.25
o-Xylene	3
Styrene	1.29
Tetrachloroethene	1.65
Toluene	9.23
Trichlorofluoromethane	3.61

LEGEND

ROUX RI SAMPLING LOCATIONS

▲ SOIL VAPOR POINT

TYPICAL DATA BOX INFORMATION

SAMPLE ID → SV-FS-04 | 12/20/13 ← SAMPLE DATE

ANALYTES	Analyte	
	VOCs	
	1,1,1-Trichloroethane	102
	1,1-Dichloroethane	32.7
	Acetone	42.8
	Ethanol	132
	Freon 113	20.9
	Toluene	18.5

ANALYTES → CONCENTRATIONS (ug/m³)

Concentrations in µg/m³
µg/m³ -Micrograms per cubic meter
VOCs - Volatile Organic Compounds
ND - Compound was analyzed for but not detected

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

N

20' 0 20'

Title:

SOIL VAPOR DETECTIONS

FAMITECH SOUTH PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 29JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	5B
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.01.DWG		

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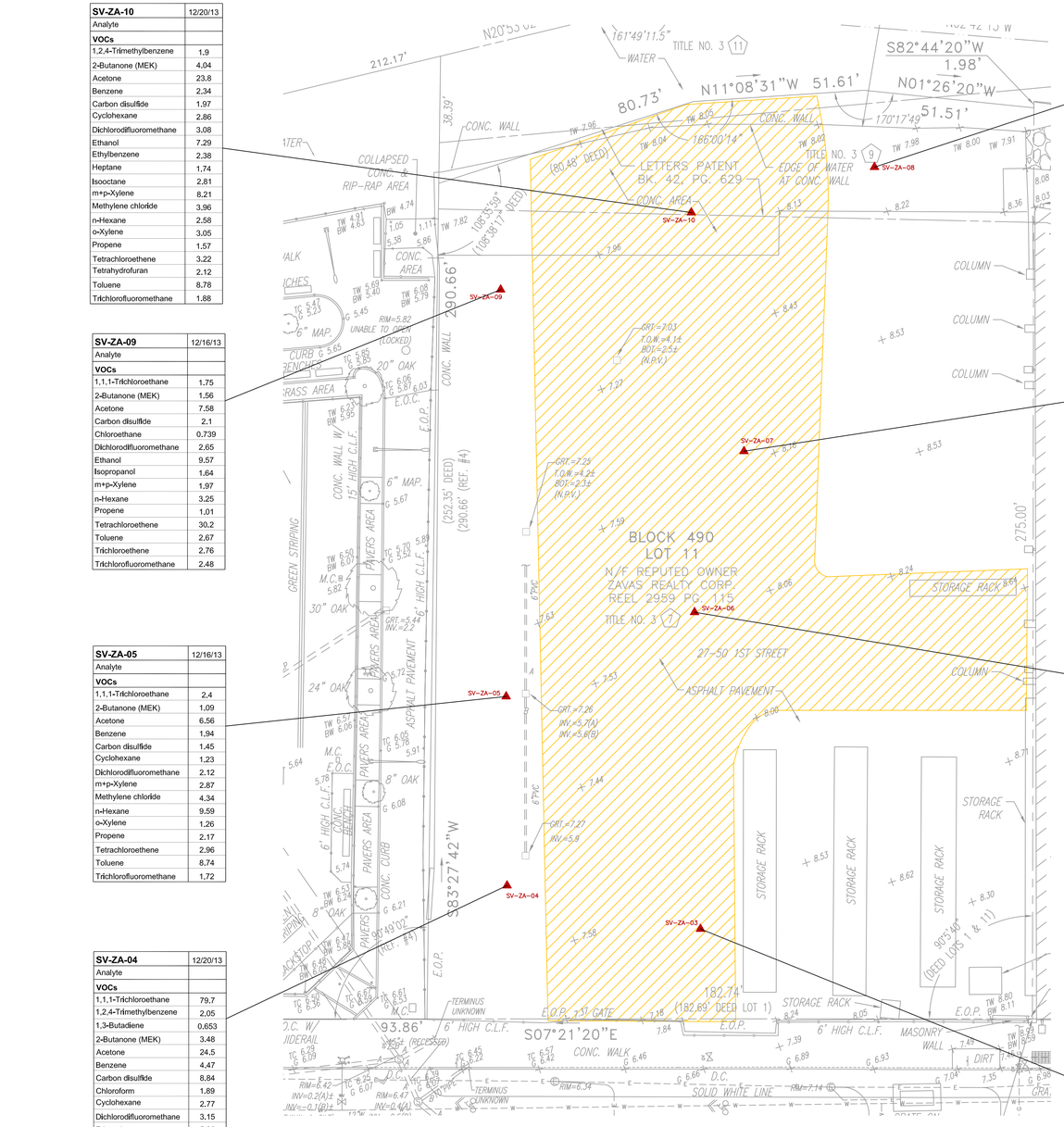
SV-ZA-10	12/20/13
Analyte	
VOCs	
1,2,4-Trimethylbenzene	1.9
2-Butanone (MEK)	4.04
Acetone	23.8
Benzene	2.34
Carbon disulfide	1.97
Cyclohexane	2.86
Dichlorodifluoromethane	3.08
Ethanol	7.29
Ethylbenzene	2.38
Heptane	1.74
Isooctane	2.81
m+p-Xylene	8.21
Methylene chloride	3.96
n-Hexane	2.58
o-Xylene	3.05
Propene	1.57
Tetrachloroethene	3.22
Tetrahydrofuran	2.12
Toluene	8.78
Trichlorofluoromethane	1.88

SV-ZA-09	12/16/13
Analyte	
VOCs	
1,1,1-Trichloroethane	1.75
2-Butanone (MEK)	1.56
Acetone	7.58
Carbon disulfide	2.1
Chloroethane	0.739
Dichlorodifluoromethane	2.65
Ethanol	9.57
Isopropanol	1.64
m+p-Xylene	1.97
n-Hexane	3.25
Propene	1.01
Tetrachloroethene	30.2
Toluene	2.67
Trichloroethene	2.76
Trichlorofluoromethane	2.48

SV-ZA-05	12/16/13
Analyte	
VOCs	
1,1,1-Trichloroethane	2.4
2-Butanone (MEK)	1.09
Acetone	6.56
Benzene	1.94
Carbon disulfide	1.45
Cyclohexane	1.23
Dichlorodifluoromethane	2.12
m+p-Xylene	2.87
Methylene chloride	4.34
n-Hexane	9.59
o-Xylene	1.26
Propene	2.17
Tetrachloroethene	2.96
Toluene	8.74
Trichlorofluoromethane	1.72

SV-ZA-04	12/20/13
Analyte	
VOCs	
1,1,1-Trichloroethane	79.7
1,2,4-Trimethylbenzene	2.05
1,3-Butadiene	0.653
2-Butanone (MEK)	3.48
Acetone	24.5
Benzene	4.47
Carbon disulfide	8.84
Chloroform	1.89
Cyclohexane	2.77
Dichlorodifluoromethane	3.15
Ethanol	5.09
Ethylbenzene	2.34
Heptane	1.5
Isooctane	1.84
Isopropanol	1.28
m+p-Xylene	7.95
Methylene chloride	7.16
n-Hexane	2.84
o-Xylene	2.84
Propene	3.75
Tetrachloroethene	12.4
Tetrahydrofuran	1.57
Toluene	7.46
Trichloroethene	7.52
Trichlorofluoromethane	3.12



SV-ZA-08	12/16/13
Analyte	
VOCs	
1,1,1-Trichloroethane	9
2-Butanone (MEK)	1.17
Acetone	12
Chloroform	14.2
Cyclohexane	0.929
Dichlorodifluoromethane	2.59
Ethylbenzene	0.925
m+p-Xylene	3.16
n-Hexane	0.867
o-Xylene	1.22
Tetrachloroethene	22
Toluene	4.79
Trichlorofluoromethane	1.63

SV-ZA-07	12/16/13
Analyte	
VOCs	
2-Butanone (MEK)	0.82
Acetone	8.77
Dichlorodifluoromethane	2.55
Ethanol	6.86
Ethylbenzene	1.06
Isopropanol	1.32
m+p-Xylene	4.32
o-Xylene	1.7
Tetrachloroethene	8.95
Toluene	6.07
Trichlorofluoromethane	3.21

SV-ZA-06	12/20/13
Analyte	
VOCs	
1,1,1-Trichloroethane	2.29
1,1-Dichloroethane	3.04
1,2,4-Trimethylbenzene	2.92
1,3-Butadiene	0.688
2-Butanone (MEK)	1.81
Acetone	8.29
Benzene	2.54
Carbon disulfide	2.81
Cyclohexane	5.4
Dichlorodifluoromethane	1.74
Ethanol	4.92
Ethylbenzene	1.99
Heptane	2.16
Isooctane	2.35
Isopropanol	1.41
m+p-Xylene	7.34
Methylene chloride	6.53
MTBE	1.87
n-Hexane	7.08
o-Xylene	3.2
Propene	112
Tetrachloroethene	4.09
Tetrahydrofuran	0.82
Toluene	5.92

SV-ZA-03	12/20/13
Analyte	
VOCs	
1,1,1-Trichloroethane	40.6
1,1-Dichloroethane	11
1,2,4-Trimethylbenzene	2.42
1,3-Butadiene	1.68
2-Butanone (MEK)	3.63
Acetone	23.8
Benzene	2.55
Carbon disulfide	9.9
Chloromethane	0.423
Cyclohexane	2.5
Dichlorodifluoromethane	1.66
Ethanol	4.9
Ethylbenzene	2.06
Heptane	1.79
Isooctane	1.73
Isopropanol	1.46
m+p-Xylene	7.91
Methylene chloride	5.7
n-Hexane	4.33
o-Xylene	2.98
Propene	43
Tetrachloroethene	3.63
Tetrahydrofuran	1.08
Toluene	6.1

LEGEND

ROUX RI SAMPLING LOCATIONS

▲ SOIL VAPOR POINT

APPROXIMATE EXTENT OF ACCESSIBLE AREA

TYPICAL DATA BOX INFORMATION

SAMPLE ID → | **SV-ZA-07** | 12/16/13 | ← SAMPLE DATE

Analyte	
VOCs	
2-Butanone (MEK)	0.82
Acetone	8.77
Dichlorodifluoromethane	2.55
Ethanol	6.86
Ethylbenzene	1.06
Isopropanol	1.32
m+p-Xylene	4.32
o-Xylene	1.7
Tetrachloroethene	8.95
Toluene	6.07
Trichlorofluoromethane	3.21

ANALYTES → CONCENTRATIONS (ug/m³)

Concentrations in µg/m³
µg/m³ -Micrograms per cubic meter
VOCs - Volatile Organic Compounds
ND - Compound was analyzed for but not detected

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

20' 0 20'

Title:

SOIL VAPOR DETECTIONS

ZAVAS PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 29JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	5C
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.01.DWG		

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SV-AE-04A	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	8.13
1,2,4-Trimethylbenzene	2.79
2-Butanone (MEK)	0.764
Acetone	6.72
Benzene	2.76
Carbon disulfide	5.98
Chloroform	7.76
Cyclohexane	2.35
Dichlorodifluoromethane	1.51
Ethanol	6.82
Ethylbenzene	9.47
Heptane	2.48
Isooctane	10.7
m+p-Xylene	24
n-Hexane	2.09
o-Xylene	8.25
Styrene	25.5
Tetrachloroethene	8.82
Toluene	38.1
Trichloroethene	1.16
Trichlorofluoromethane	201

SV-AE-04	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	14.8
Tetrachloroethene	92.2
Toluene	14.3
Trichlorofluoromethane	155

SV-AE-05	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	93.3
Trichlorofluoromethane	20.4

SV-AE-03	12/17/13
Analyte	
VOCs	
Trichlorofluoromethane	132

SV-AE-06	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	2.88
1,2,4-Trimethylbenzene	1.03
Acetone	4.87
Dichlorodifluoromethane	3.19
Ethylbenzene	0.895
m+p-Xylene	3.97
o-Xylene	1.76
Tetrachloroethene	1.51
Toluene	3.14
Trichlorofluoromethane	1.69

SV-AE-09	12/17/13
Analyte	
VOCs	
1,1,1-Trichloroethane	161
1,1-Dichloroethane	129
Acetone	40.4
Carbon disulfide	22.8
cis-1,2-Dichloroethene	9.24
n-Hexane	7.79
Toluene	16.7
Trichloroethene	53

SV-AE-07	12/17/13
Analyte	
VOCs	ND

SV-AE-02	12/17/13
Analyte	
VOCs	ND

SV-AE-01	12/17/13
Analyte	
VOCs	
2-Butanone (MEK)	6.75
Benzene	8.05
Carbon disulfide	22
Cyclohexane	33.6
Heptane	13
Isooctane	29
n-Hexane	45.5
Propene	101
Toluene	11.9

SV-AE-08	12/17/13
Analyte	
VOCs	ND

LEGEND

ROUX RI SAMPLING LOCATIONS

▲ SOIL VAPOR POINT

TYPICAL DATA BOX INFORMATION

SAMPLE ID →	SV-AE-09	12/17/13	← SAMPLE DATE
	Analyte		
	VOCs		
ANALYTES →	1,1,1-Trichloroethane	161	← CONCENTRATIONS (ug/m³)
	1,1-Dichloroethane	129	
	Acetone	40.4	
	Carbon disulfide	22.8	
	cis-1,2-Dichloroethene	9.24	
	n-Hexane	7.79	
	Toluene	16.7	
	Trichloroethene	53	

Concentrations in µg/m³
µg/m³ -Micrograms per cubic meter
VOCs - Volatile Organic Compounds
ND - Compound was analyzed for but not detected

NOTES:

1. Monitoring well elevations and locations were surveyed on December 23, 2013 by Angle Of Attack Land Surveying.
2. Elevations are based upon borough of Queens highway datum.
3. Survey base map sourced from Control Point Associates, Inc. file C08003.01, Drawing V-001.1 Revision 2, dated 4/9/12.

20' 0 20'

Title:

SOIL VAPOR DETECTIONS

ASTORIA EQUITIES PROPERTY
ASTORIA, NEW YORK

Prepared For:

CONFIDENTIAL INVESTOR

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: J.L.	Date: 29JAN14	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	5D
Project Mgr: J.L.	Project: 1338.0010Y000	
File: 1338.0010Y103.01.DWG		

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