
**REMEDIAL INVESTIGATION REPORT FOR THE
FORMER HUNTS POINT GAS WORKS
MARINE TRANSFER STATION (MTS) PARCEL
SITE #V00554
Bronx, New York**

Prepared For:



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“I, Shane Blauvelt, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.”



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SECTION 1

INTRODUCTION

1.1 SITE CHARACTERIZATION STUDY OBJECTIVES

Site characterization of the Hunts Points Marine Transfer Station (MTS) was conducted to (1) assess the potential presence of Manufactured Gas Plant (MGP) related impacts; and (2) to ascertain the potential need for further investigation or remediation. This Remedial Investigation Report (RIR) documents the field investigation activities and results associated with the Site Characterization at the Hunts Point New York City Department of Sanitation (NYCDOS) MTS Site. The specific objectives of this RIR are to assess whether hazardous substances have been released to the environment and may be present onsite, if they have migrated offsite, and whether they may have impacted human health or the environment. If no potential impacts are verified, a “no further action” conclusion may be warranted. If potential impacts are verified, additional sampling may be needed to determine the nature and extent of those impacts, or the need for remediation and interim measures to address the impacts. These objectives are consistent with those of the New York State Department of Environmental Conservation’s (NYSDEC) comprehensive remedial investigation process, specifically Chapter 3 of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010).

1.2 REPORT ORGANIZATION

The Site Characterization was conducted by Parsons in September and October 2014. The field investigation activities are documented in this RIR in the following sections and appendices:

- Section 1: Introduction
- Section 2: Site Background
- Section 3: Site Characterization Activities
- Section 4: Site Characterization Results
- Section 5: Exposure Assessment
- Section 6: Conclusions and Recommendations
- Section 7: References
- Appendix A: Soil Boring and Monitoring Well Logs
- Appendix B: Groundwater Sampling Logs
- Appendix C: Data Usability Summary Report

SECTION 2

SITE BACKGROUND

2.1 SITE OVERVIEW

Consolidated Edison Company of New York, Inc. (Con Edison) has entered into a Voluntary Cleanup Agreement (VCA) with the NYSDEC to investigate, and if necessary, remediate the former Hunts Point Gas Works (Site #V00554), located in a industrial area of the Bronx, New York (Figure 1). The former Hunts Point Gas Works was a MGP operated by Con Edison between 1926 and 1962. Currently, the former Hunts Point Gas Works property is owned by the City of New York for use as the Hunts Point Food Distribution Center. The portion of the former Hunts Point Gas Works property associated with this Site Characterization includes an approximately 4-acre area currently occupied by a New York City Department of Sanitation MTS between Parcels B and C (Figure 2), also known as Hunts Point MGP OU-6 (the Site).

2.2 ADJOINING PROPERTY DESCRIPTION

The Site is bound by Farragut Street to the north and northeast, beyond which is the Sultana Citarella site. The Site is bound by the Fulton Fish Market (Parcel B) on the north and northwest and the convergence of the Bronx and East Rivers to the south. The adjacent properties are currently owned by the City of New York and are managed by the New York City Economic Development Corporation (NYCEDC).

2.3 SITE HISTORY

Research for the entire Hunts Point Gas Works property was previously conducted and documented in the *Hunts Point Offsite Manufactured Gas Plant Site History Report, Bronx, New York* (Parsons, 2003). Based on this report, the gas works was owned and/or operated as an MGP and gas holder station by Con Edison between 1926 and 1962. The City of New York acquired the majority of the former Hunts Point Gas Works property in the late 1960s. The majority of the gas works property was then transitioned into warehouse space for a wholesale food cooperative.

Reviews of historical aerial photographs indicate that the majority of the structures related to the former gas works were located north of the Site in the area currently occupied by the Hunts Point Co-Operative Market.

Aerial photographs indicate that most of the Site was open water, until sometime between 1954 and 1966, when this area was filled in and the MTS was constructed. Aerial photographs indicate that the MTS has been present since at least 1966. Prior to the Site Characterization, no known investigation activities have been performed on the Site.

2.4 TOPOGRAPHY, REGIONAL GEOLOGY, AND HYDROGEOLOGY

Hunts Point is a peninsula on the East River and Bronx River that is surrounded by brackish or salty tidal water. The former Hunts Point Gas Works covers an area of approximately 182 acres on Hunts Point. The Site is on the southern boundary of the former Hunts Point Gas Works operations and covers approximately 4 acres.

The specific geology and subsurface conditions on and around the former Hunts Point Gas Works can vary depending on the local history and the specific activities conducted (construction, excavation, filling, etc.). Prior to significant construction and development, Hunts Point was drained by small creeks, which emptied into the Bronx and East rivers. Most of these creeks are now filled in and are covered by buildings and streets. However, the filled in channels and associated sedimentary deposits may have some influence on the occurrence and movement of shallow groundwater. The presence of sewer lines and abandoned piping may also contribute to the behavior of shallow groundwater. Groundwater in the area has been reported to occur within the shallow subsurface, and flows in a southerly direction toward the Hunts Point promontory, and the confluence of the Bronx and East Rivers (Hygienetics, 1997).

Shallow groundwater was encountered within the fill materials on the eastern portion of the former Hunts Point Gas works at depths between 2 and 5 feet (ft) below ground surface (bgs). This shallow water was not encountered at drilling locations on the western half of the former Hunts Point Gas works and there appears to be perched water within the fill and sand materials above the clay (Parsons, 2003). A deeper water-bearing zone was encountered during the subsurface investigation within a deeper sand layer at approximately 12 to 15 ft bgs within borings performed at the western half of the former Hunts Point Gas Works. Boring logs from the Hygienetics reports indicate the presence of groundwater from 3 to 9 ft bgs depending on the proximity to the Bronx River (Hygienetics, 1997 and LMS, 1999a and b). Investigation activities on Parcel B indicated the presence of either bedrock and/or boulders at depths ranging from as shallow as 6 ft bgs in test trenches, to depths of 40 ft bgs in deep soil borings (LMS, 2001).

SECTION 3

SITE CHARACTERIZATION ACTIVITIES

The following sections describe the field investigation activities conducted as part of the Site Characterization. Parsons personnel mobilized to the Site on September 23, 2014 and the field investigation activities were conducted in September and October 2014 in accordance with the NYSDEC approved *Site Characterization Work Plan (SCWP)* (Parsons, 2011). The scope of field investigation activities included the installation of soil borings and monitoring wells. Soil and groundwater samples were collected for laboratory analysis. During all intrusive activities, a Community Air Monitoring Plan (CAMP) was implemented in accordance with the approved work plan. Sample locations are shown on Figure 3. Table 1 provides a summary of the samples and analyses.

3.1 SITE INSPECTION AND PRELIMINARY INVESTIGATION ACTIVITIES

On September 23, 2014, a Site inspection was conducted to refine the locations of the proposed investigation points. The proposed scope of work was reviewed with Con Edison. Proposed locations and proposed methods were altered in the field, as necessary, based on Site conditions, access, utilities, and safety. Sampling location changes were made in consultation with Con Edison and the NYSDEC.

3.2 UTILITY CLEARANCE

A geophysical survey was conducted to identify potential/possible underground conduits/utilities in the area of the proposed soil boring and monitoring well locations. The geophysical survey was completed by Diversified Geophysics Inc. (DGI), of Mineola, New York prior to start of Site work.

Once the initial geophysical survey was completed, utility clearance keyhole test pits were hand or vacuum excavated at each proposed soil boring and monitoring well location for subsurface utilities. Utility clearance test pits were completed by Aquifer Drilling & Testing, Inc. (ADT) of Mineola, New York in September and October 2014. The typical utility clearance test pit excavation consisted of saw-cutting and jack-hammering the surface pavement (as necessary), and excavating using a Vactron, an air knife, and hand tools (as necessary) to a minimum depth of 5 ft bgs. During these excavation activities, soils were screened for VOCs using a photoionization detector (PID), their physical characteristics (e.g., soil type, grain size, color, etc.) were described, and notes of any evidence of physical impacts observed (staining, odor, sheen, non-aqueous phase liquid (NAPL), etc.) were recorded. When a utility clearance test pit could not be completed to a depth of 5 ft bgs due to the presence of underground utilities or subsurface obstructions, the location was moved approximately 5 to 10 ft away from the original location and re-excavated. Following completion of the utility clearance test pits, each test pit was backfilled prior to drilling or excavation.

3.3 SOIL BORING INSTALLATION

A total of three (3) soil borings (SB-01 through SB-03) were advanced during the Site Characterization activities to characterize subsurface conditions. The soil borings were

completed in October 2014. Advancement of the soil borings was conducted by ADT under the supervision of a Parsons geologist. Soil borings were completed to depths ranging from approximately 21 to 43 ft bgs, depending on observed impacts and refusals. Figure 3 depicts the soil boring locations and corresponding boring logs are presented in Appendix A.

Soil borings were advanced using a Hollow Stem Auger (HSA) rig. Soil samples were collected continuously to the bottom of the boring. Each sample was screened for the presence of VOCs using a PID. Soil was also logged for physical characteristics of each sample (e.g., soil type, color, texture, moisture content, etc.), along with physical evidence of any impacted material (e.g., oil-like or tar-like NAPL, staining, sheens, odors, etc).

Soil samples were submitted to Chemtech and analyzed for TCL VOCs, TCL SVOCs, cyanide, TAL metals, and PCBs. A summary of the soil samples collected and analyses performed is provided in Table 1. Soil samples were collected from selected zones within the borings and were submitted for laboratory analysis based on the following criteria:

- One sample was collected from the zone with the highest PID readings or visual impacts. If visual impacts or elevated PID readings were not observed, a sample was collected from the upper portion of the boring or directly above the water table (if present).
- One sample was collected below the impacted zone (if present) or near the base of the boring to identify the vertical extent of any impacts at the location.

Upon completion, the boring locations were grouted with Portland cement and bentonite grout using a tremie pipe. Drilling equipment was decontaminated between each boring. Drill cuttings and decontamination water were containerized in 55-gallon steel drums and handled as described in Section 3.7.

3.4 MONITORING WELL INSTALLATION/DEVELOPMENT

A total of four (4) monitoring wells (MW-1 through MW-4) were installed during the Site Characterization activities. Monitoring wells were installed in October 2014 utilizing 4.25-inch outside diameter hollow stem augers and a truck-mounted drill rig. The monitoring well borings were advanced to varying depths, ranging from 25 to 51 ft bgs. The monitoring well screens were set at depths ranging from 5 to 23 ft bgs with the top of the screen approximately 2 ft above the observed groundwater table. Soil samples were collected from monitoring well borings on a continuous basis and were screened for the presence of VOCs using a PID. Soil samples were selected for analysis as described above (Section 3.3). Monitoring well boring and construction logs are provided in Appendix A.

The monitoring wells were constructed with 2-inch inner diameter, threaded, flush-joint, PVC casing and 10-foot lengths of 0.02-inch slot screen. The annular space around each well screen was backfilled with a No. 2 sand filter pack extending from the bottom of the well to at least 2 ft above the top of the screen. The annular space around the well riser was sealed with at least 2 ft of hydrated bentonite pellets on top of the sand pack. The remainder of the boring was backfilled with cement-bentonite grout to approximately 4 to 5 ft bgs. Each monitoring well was finished with a locking, flush-mount box set in concrete.

Monitoring well development was conducted in October 2014 a minimum of 24 hours after installation. Monitoring wells were developed until reasonably free of sediment (less than 50 NTU if possible) or until the pH, temperature, Oxygen Reduction Potential (ORP), and conductivity stabilized. Monitoring well development was monitored approximately every 5 minutes by reviewing water quality indicator measurements. Well development continued until turbidity was less than 50 nephelometric turbidity units (NTUs) for three successive readings or until water quality indicators stabilized, whichever occurred first in each monitoring well. The stabilization criteria were based on water quality indicators of three successive readings within 10%. During development, MW-2 ran dry several times and was not able to be developed to 50 NTUs. Therefore, the stabilization criteria were utilized.

Non-disposable drilling equipment was decontaminated between monitoring well locations. Monitoring well drill cuttings, well development water, and decontamination water were containerized in 55-gallon steel drums and handled as described in Section 3.7.

3.5 SURVEYING

At the conclusion of drilling activities, Chazen Engineering, Land Surveying and Landscape Architecture Co., D.P.C., a licensed New York state land surveyor, mobilized to the Site and identified the horizontal and vertical location of each new soil boring and monitoring well. Additionally, the survey included locating Site features such as manholes, bollards, hydrants, telephone poles, and more. Two elevation measurements were taken at each well location to identify the top of the PVC casing and the grade elevation. The survey elevations were measured to an accuracy of 0.01 ft above the National Geodetic Vertical Datum of 1988 (NGVD 1988).

3.6 GROUNDWATER SAMPLING

On October 30 and 31, 2014, groundwater samples were collected from the four (4) monitoring wells (MW-1 through MW-4). Prior to collecting samples, the depth to groundwater and thickness of any free product (if present) was measured in the monitoring wells using an electronic oil/water interface probe attached to a measuring tape accurate to 0.01 ft. Table 2 provides a summary of the groundwater level measurements and elevations.

Prior to purging, the headspace within each well was measured with a PID. Each well was purged using a submersible pump and low-flow purging techniques to stabilize the following water quality parameters: temperature, conductivity, pH, dissolved oxygen, oxidation reduction potential (ORP), and turbidity; which were measured approximately every five minutes.

Once stabilization was achieved, groundwater samples were collected using a low-flow submersible pump with dedicated tubing. Water quality parameter measurements and observations recorded during sampling activities are documented on the groundwater sampling records provided in Appendix B. Laboratory analysis of groundwater samples were conducted by Chemtech, an NYSDOH approved ELAP laboratory certified for analyses using Analytical Services Protocol (ASP). Groundwater samples were analyzed for TCL VOCs, TCL SVOCs, TAL Metals, PCBs, and total cyanide. Monitoring well MW-2 remained turbid throughout the sampling process, and was therefore analyzed for dissolved metals in addition to the aforementioned analyses. Non-dedicated sampling equipment (e.g., oil/water interface probe,

submersible pump) was decontaminated between sampling locations. Decontamination water was placed in 55-gallon drums and handled as described in Section 3.7.

3.7 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW), which included decontamination wash and rinse water, soil cuttings, purge water, debris, and used personal protective equipment (PPE), was containerized in Department of Transportation (DOT)-approved 55-gallon drums. The drums were sealed at the end of each work day and labeled with the date, the well or boring number(s), and the type of waste (e.g., drill cuttings, purge water). Parsons collected representative waste characterization samples of the IDW and coordinated transportation and disposal. Clean Earth of North Jersey, Inc. from Kearny, New Jersey disposed of the IDW at an offsite Con Edison-approved location in accordance with applicable local, state, and federal regulations.

3.8 DATA VALIDATION AND REPORTING

Data validation was performed in accordance with the USEPA Region II standard operating procedures (SOPs) for organic and inorganic data review which were in effect at the time of data validation (USEPA 2006; 2008a; 2008b). These validation guidelines are regional modifications to the National Functional Guidelines for organic and inorganic data review (USEPA, 1999 and 2004). Validation included the following:

- Verification of 100% of all quality control (QC) sample results (both qualitative and quantitative);
- Verification of the identification of 100% of all sample results (both positive hits and non-detects);
- Recalculation of 10% of all investigative sample results; and
- Preparation of a Data Usability Summary Report (DUSR).

The quality of the data has been assessed and is documented in the DUSR provided in Appendix C. In summary, the results of the data usability assessment show that the collected analytical data for soil and groundwater are valid for the intended purposes of the Site Characterization.

SECTION 4

SITE CHARACTERIZATION RESULTS

This section presents the results of the Site Characterization. Analytical results for the soil and groundwater samples collected during the Site Characterization have been summarized in Tables 3 and 4 and on Figures 4, 5, and 6.

4.1 SITE GEOLOGY

The geology encountered in the soil borings during the Site Characterization is summarized in the logs provided in Appendix A. The boring logs show that the upper 8 to 32 ft contained fill materials (generally sand, gravel and cobble with trace amounts of brick, concrete, wood and silt). Parent material deposits of fine to coarse-grained sand, sand and gravel, and clay were encountered underlying fill material. Clay encountered at the base of soil borings ranged in thickness from approximately 3 to 4 ft. Soil borings were not advanced through the entirety of clay layer, therefore a total thickness was not observed. Bedrock was not encountered during the Site Characterization activities. Soil boring logs generated during the Site Characterization were used to develop the representative cross sections A to A' and B to B' shown on Figure 7.

4.2 FORMER GAS WORKS STRUCTURES

Remnants of former gas works structures were not encountered within any soil boring or monitoring well installed during the Site Characterization.

4.3 SITE HYDROGEOLOGY

The depth to groundwater was gauged in the four monitoring wells (MW-1 through MW-4) on October 30, 2014. Groundwater was encountered at 7.65 ft to 10.80 ft bgs and at elevations ranging from 1.60 ft AMSL at MW-3 to 2.66 ft AMSL at MW-4. Groundwater levels and corresponding elevations are summarized in Table 2. Water table elevations observed within monitoring wells, as well as observations from previous studies (Hygienetics, 1997) suggests that the groundwater flow direction is toward the Hunts Point promontory, and the confluence of the Bronx and East Rivers.

4.4 SOIL SAMPLE RESULTS

A total of 15 soil samples, were collected from the soil borings and monitoring well borings as part of the Site Characterization. Soil samples were submitted to Chemtech Laboratories and analyzed for TCL VOCs, TCL SVOCs, TAL metals, PCBs and cyanide as described in Section 3. The analytical results of the soil samples are summarized in Table 3 and presented on Figures 4 and 5. The soil sample results have been compared to both the Unrestricted Soil Cleanup Objectives (USCOs) and the Industrial Soil Cleanup Objectives (ISCOs) provided by NYSDEC in 6 NYCRR Part 375 (NYSDEC, 2006). The USCOs assume there are no imposed restrictions on the use of the Site. However, the Hunts Point MTS Site is zoned for manufacturing (i.e., industrial) purposes, a majority of the Site is paved, and public access to the Site is restricted by fences. Therefore, a comparison of soil sample results to USCOs is

conservative, and ISCOs were utilized as an alternative comparison. PID readings, visual observation, and analytical results from the subsurface soil investigation are summarized below.

PID Readings/NAPL Results

PID readings for soil samples collected during soil boring/monitoring well installations ranged from 0.0 to 1.7 ppm above background. The highest PID reading of 1.7 ppm was observed in soil boring MW-4 at a depth interval of 44 to 46 ft bgs. Non-aqueous-phase-liquid (NAPL) was not observed in the process of soil boring/monitoring well installation during the Site Characterization activities.

VOCs

Ten (10) individual VOCs were detected at least once in the soil samples collected during the Site Characterization. Of these, only one (1) VOC (acetone) was detected at concentrations exceeding the USCOs. Acetone, a common laboratory contaminant, was detected in two soil samples [SB-2 (39-41 ft) and MW-3 (29-31 ft)] above USCOs. However, acetone concentrations were below ISCOs. Total VOC concentrations in all soil samples ranged from 0.01 to 0.28 milligrams/kilogram (mg/kg), with the maximum concentration being detected in soil collected from SB-2, at a depth of 39 to 41 ft bgs.

SVOCs

Twenty (20) individual SVOCs were detected in soil samples collected during the Site Characterization. Five (5) PAHs [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-C,D)pyrene] were detected at concentrations exceeding their respective USCOs in one soil sample [SB-2 (39-41)]. Only one of these PAHs, benzo(a)pyrene, exceeded its respective ISCO. Total SVOC concentrations in all soil samples ranged from 0.35 to 28.88 mg/kg, with the maximum concentration being detected in soil collected from SB-2, at a depth of 39 to 41 ft bgs. SB-2 was the only soil boring in which SVOC concentrations were detected above USCOs.

PCBs

One (1) PCB, Arocolor 1260, was detected in MW-1 (7-9 ft bgs) at a concentration of 0.088 mg/kg, which is below its USCO. PCBs were not detected in any other soil samples.

Inorganics

A total of twenty two (22) inorganic constituents were detected in soil samples collected during the Site Characterization. Of these, eight (8) metals exceeded their respective USCOs (arsenic, chromium, copper, lead, mercury, nickel, silver, and zinc). The materials most impacted by inorganics are found in SB-2, at a depth of 39-41 ft bgs. Only one (1) inorganic constituent, arsenic, is found in exceedance of the ISCO. The instance of arsenic exceeding its' ISCO occurs in SB-2 at 39-41 ft bgs.

4.5 GROUNDWATER SAMPLE RESULTS

A total of four (4) groundwater samples and 1 duplicate were collected during the Site Characterization and analyzed for TCL VOCs, TCL SVOCs, TAL Metals, PCBs and total

cyanide. Laboratory analytical results for constituents detected in the groundwater samples are summarized in Table 4. For evaluation purposes, analytical results were compared with ambient water quality standards (AWQS) and guidance values contained in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 (NYSDEC, 1998). These standards and guidance values are protective of groundwater quality assuming that groundwater is used as a source of drinking water. That assumption is not applicable to the Site because groundwater is not used now, nor will it be used in the future as a source of drinking water. Accordingly, the use of Class GA standards and guidance values for comparison to Site groundwater data is conservative. The analytical results of the groundwater samples collected from each well are presented on Figure 6. Field measurements and observations as well as analytical results from the groundwater investigation are summarized below.

Field Measurements

Each monitoring well, with the exception of MW-2, was sampled upon reaching parameter stability and turbidity levels below 50 NTU. MW-2, which remained turbid, was sampled once pH, temperature, ORP, and conductivity stabilized to within 10% through three successive readings. During groundwater sampling activities, each monitoring well was monitored for the presence of NAPL. No NAPL or sheens were noted in any of the wells. Visual descriptions and observations made during the groundwater sampling activities are presented on the groundwater sampling records provided in Appendix B.

VOCs

No VOCs were detected in the groundwater samples collected during the Site Characterization.

SVOCs

Three SVOCs were detected in the groundwater samples collected during the Site Characterization. One SVOC (bis (2-ethylhexyl) phthalate) was found in exceedance of its AWQS guidance value in MW-1 with a concentration of 7.9 µg/L. Bis (2-ethylhexyl) phthalate is a common laboratory contaminant and not related to MGP operations. No other SVOCs were detected above the Class GA GWQS in any of the monitoring wells. Groundwater analytical results for SVOCs are summarized in Table 4 and on Figure 6.

PCBs

No PCBs were detected in the groundwater samples collected during the Site Characterization.

Inorganics

Eighteen (18) inorganic compounds were detected at least once in the groundwater samples collected during the Site Characterization. Of these, five (5) (iron, lead, magnesium, manganese, and sodium) were detected at concentrations in exceedance of their respective AQWS guidance values. Metals within the Site are typically encountered in groundwater within urban areas. Groundwater analytical results for inorganics are summarized in Table 4 and on Figure 6.

SECTION 5

EXPOSURE ASSESSMENT

Information collected during the Site Characterization at the former Hunts Point Gas Works MTS Site has been used to qualitatively assess potential exposure pathways for the various detected compounds in Site soils and groundwater.

In general, there is a low potential for exposure to impacted Site soils. Access to the Site is restricted, and most of the area is covered by asphalt and concrete. Soils may be encountered during intrusive activities (e.g., repair of underground utilities); however, it is unlikely that these materials would be encountered during day-to-day Site operations.

Analytical results from the soil samples collected during the Site Characterization indicate most of the Site meets USCOs. The only VOC exceeding USCOs within the site is acetone, which is a common lab contaminant and its concentration is below ISCOs. Only one sample contained SVOCs in exceedance of USCOs. Four of these five compounds (benzo(a)anthracene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-C,D)pyrene) do not exceed ISCOs. The remaining constituent, benzo(a)pyrene, has had background concentrations in urban fill materials commonly observed at an average of double the USCO (RETEC, 2007). The benzo(a)pyrene concentration detected was below the average concentration noted in the above report. This suggests that the presence of benzo(a)pyrene may have resulted from the use of fill material when Hunts Point was constructed, rather than as a result of MGP operations. In addition, this one sample containing benzo(a)pyrene above the ISCOs is located 39-41 ft bgs so there isn't a risk of direct exposure. Further, the concentration is below the SCOs for protection of groundwater.

Similarly, all metals found in exceedance of USCOs within the Site's soil, with the exception of arsenic, do not exceed ISCOs. In locations within New York City where fill materials are present, arsenic has been observed to exhibit background concentrations in excess of USCOs (RETEC, 2007). Arsenic found in subsurface soils composed of fill material within Manhattan had concentrations ranging from 2.2 to 20.1 mg/kg, suggesting the presence of arsenic may have related to the use of fill material. In addition, this one sample containing arsenic above the ISCOs is located 39 to 41 ft bgs so there isn't a risk of exposure.

Groundwater analytical results indicated the presence of inorganic concentrations in the monitoring wells at the Site above the AWQS and guidance values. However, none of the four monitoring wells (MW-1, MW-2, MW-3, and MW-4) exceeded guidance values for possible MGP-related VOCs or SVOCs.

Groundwater at the Site is currently not used for a potable water source and there are no plans for future use of potable or commercial/industrial groundwater at the Site. The direction of groundwater flow is towards the confluence of the Bronx and East Rivers. The depth of groundwater at the Site is 7.65 ft to 10.80 ft bgs. The majority of the site is contains a cover of asphalt or concrete. Therefore, there is limited potential for exposure to groundwater during intrusive subsurface activities (e.g., repair of underground utilities) at the Site and it is unlikely that groundwater would be encountered during day-to-day Site operations.

SECTION 6

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions have been made based on the results of the Site Characterization presented herein:

- No former MGP structures or NAPL were encountered during the Site Characterization.
- No VOCs related to former MGP activities were detected in soil above USCOs.
- Only one soil sample, which is at a depth that precludes direct exposure (39-41 ft), contained SVOC's concentrations above USCOs. Of the SVOCs detected, one exceeded its ISCO but the concentration was below SCOs for protection of groundwater.
- Only one soil sample, which is at a depth that precludes direct exposure (39-41 ft), contained metals concentrations above USCOs. Of the metals detected, one (arsenic) exceeded its ISCO. However, arsenic is commonly found in fill materials in the area.
- No VOCs or SVOCs related to former MGP activities were detected in groundwater.
- Metals in Site groundwater exceeding AWQS guidance values are typically encountered in groundwater in urban areas. Additionally, groundwater at the Site is not used as a source of drinking water.

As stated in Section 1, the purpose of the Site Characterization was to: (1) characterize and identify potential subsurface conditions that may pose a risk to human health and the environment; and (2) to ascertain the potential need for further investigation or remediation. The Site Characterization was successful in identifying and characterizing the subsurface conditions at the Site. In addition, potential exposure pathways were assessed in Section 4 for compounds detected in the site soils and groundwater. No risks to human health or the environment were identified. Therefore, per NYSDEC's DER-10 subsection 3.1(a)(8)(ii), no further investigation is warranted at the Site.

SECTION 7

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TABLES

Table 1
Sample Summary
Former Hunts Point MTS Gas Works
Consolidated Edison Company of New York
Site Characterization - October 2014

| Location | Sample ID | Depth (bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Dissolved Metals | Cyanide | PCBs |
|----------------------------|---------------|-------------|----------|-----------|------------|------------------|---------|------|
| SOIL SAMPLES | | | | | | | | |
| MW-1 | MW-1(7-9) | 7-9' | X | X | X | | X | X |
| | MW-1(23-25) | 23-35' | X | X | X | | X | X |
| MW-2 | MW-2(5-7) | 5-7' | X | X | X | | X | X |
| | MW-2(25-27) | 25-27' | X | X | X | | X | X |
| MW-3 | MW-3(11-13) | 11-13' | X | X | X | | X | X |
| | MW-3(29-31) | 29-31' | X | X | X | | X | X |
| MW-4 | MW-4(11-13) | 11-13' | X | X | X | | X | X |
| | MW-4A(11-13)* | 11-13' | X | X | X | | X | X |
| | MW-4(49-51) | 49-51' | X | X | X | | X | X |
| SB-1 | SB-1(7-9) | 7-9' | X | X | X | | X | X |
| | SB-1(17-19) | 17-19' | X | X | X | | X | X |
| SB-2 | SB-2(9-11) | 9-11' | X | X | X | | X | X |
| | SB-2(39-41) | 39-41' | X | X | X | | X | X |
| SB-3 | SB-3(15-17) | 15-17' | X | X | X | | X | X |
| | SB-3(35-37) | 35-37' | X | X | X | | X | X |
| GROUNDWATER SAMPLES | | | | | | | | |
| MW-1 | MW-1 | NA | X | X | X | | X | X |
| | MW-11* | NA | X | X | X | | X | X |
| MW-2 | MW-2 | NA | X | X | X | X | X | X |
| MW-3 | MW-3 | NA | X | X | X | | X | X |
| MW-4 | MW-4 | NA | X | X | X | | X | X |

X - Indicates sample was analyzed

* - Indicates a duplicate sample

Table 2
Summary of Groundwater Elevations
Former Hunts Point MTS Gas Works
Consolidated Edison Company of New York
Site Characterization - October 2014

| Monitoring Well Number | Total Well Depth (feet) | Top of Casing Elevation (feet AMSL) | Depth to Water (feet)⁽¹⁾ | Groundwater Elevation (feet AMSL) |
|-------------------------------|--------------------------------|--|--|--|
| MW-1 | 18.85 | 12.03 | 9.95 | 2.08 |
| MW-2 | 14.40 | 9.69 | 7.65 | 2.04 |
| MW-3 | 21.40 | 12.40 | 10.80 | 1.60 |
| MW-4 | 19.80 | 12.78 | 10.12 | 2.66 |

Notes:

(1) Measured from top of PVC casing in October 2014

AMSL = Above Mean Sea Level

Elevations are based on the North American Vertical Datum of 1988 (NAVD88)

Table 3
Summary of Soil Analytical Data
Former Hunts Point MTS Gas Works
Consolidated Edison Company of New York
Site Characterization - October 2014

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 Detected compounds only Exceedances highlighted | NYSDEC Part 375 Unrestricted Use Soils Criteria | NYSDEC Part 375 Industrial Use Soils Criteria | Location ID: | MW-1 | MW-1 | MW-2 | MW-2 | MW-3 | MW-3 | MW-4 | Field Duplicate of MW-4 |
|--|---|---|----------------|--------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|
| | | | Sample ID: | MW-1(7-9)-20141001 | MW-1(23-25)-20141001 | MW-2(5-7)-20141006 | MW-2(25-27)-20141007 | MW-3(11-13)-20141003 | MW-3(29-31)-20141006 | MW-4(11-13)-20141002 | MW-4A(11-13)-20141002 |
| | | | Lab Sample ID: | F4241-01 | F4241-02 | F4241-10 | F4241-11 | F4241-08 | F4241-09 | F4241-03 | F4241-04 |
| | | | Depth: | 7 - 9 ft | 23 - 25 ft | 5 - 7 ft | 25 - 27 ft | 11 - 13 ft | 29 - 31 ft | 11 - 13 ft | 11 - 13 ft |
| | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | | SDG: | F4241 | F4241 | F4241 | F4241 | F4241 | F4241 | F4241 | F4241 |
| | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | Sampled: | 10/1/2014 9:58 | 10/1/2014 11:25 | 10/6/2014 14:48 | 10/7/2014 9:50 | 10/3/2014 14:20 | 10/6/2014 9:45 | 10/2/2014 10:05 | 10/2/2014 10:15 |
| | | | Validated: | 11/12/2014 | 11/12/2014 | 11/12/2014 | 11/12/2014 | 11/12/2014 | 11/12/2014 | 11/12/2014 | 11/12/2014 |
| CAS NO. | COMPOUND | | UNITS: | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 71-55-6 | I,1,1-TRICHLOROETHANE | 680 | mg/kg | ND | 0.0043 J | ND | ND | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | mg/kg | 0.0371 | 0.013 J | 0.0181 J | 0.0275 J | 0.0185 J | 0.1 | 0.0181 J | 0.024 J |
| 75-15-0 | CARBON DISULFIDE | -- | mg/kg | 0.0035 J | ND | ND | 0.0039 J | ND | 0.0055 J | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | mg/kg | ND | ND | ND | ND | ND | 0.0186 J | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | mg/kg | 0.0035 J | 0.0041 J | 0.0042 J | 0.0054 J | 0.0049 J | 0.0052 J | 0.0054 J | 0.0048 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| | Total VOCs | | mg/kg | 0.0441 | 0.0214 | 0.0223 | 0.0368 | 0.0234 | 0.1293 | 0.0235 | 0.0288 |
| | SEMIVOLATILES | | | | | | | | | | |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | mg/kg | ND | ND | ND | ND | ND | ND | ND | 0.0978 J |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | mg/kg | 0.52 J | ND | ND | 0.16 J | ND | ND | 0.0881 J | 0.29 J |
| 50-32-8 | BENZO(A)PYRENE | 1 | mg/kg | 0.41 J | ND | ND | 0.13 J | ND | ND | ND | 0.23 J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | mg/kg | 0.56 J | ND | ND | 0.15 J | ND | ND | 0.0921 J | 0.27 J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | mg/kg | ND | ND | ND | 0.15 J | ND | ND | ND | 0.12 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | mg/kg | ND | ND | ND | 0.0924 J | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | mg/kg | 2.6 | 0.19 J | ND | 0.11 J | 0.28 J | 0.0954 J | 0.83 | 0.67 |
| 218-01-9 | CHRYSENE | 1 | mg/kg | 0.41 J | ND | ND | 0.17 J | ND | ND | 0.0996 J | 0.26 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | mg/kg | 0.61 J | 0.35 J | 0.53 J | 0.5 | 0.4 | 0.41 J | 0.57 | 0.39 |
| 206-44-0 | FLUORANTHENE | 100 | mg/kg | 0.82 J | ND | 0.17 J | 0.25 J | ND | ND | 0.2 J | 0.53 J |
| 86-73-7 | FLUORENE | 30 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | mg/kg | ND | ND | ND | 0.12 J | ND | ND | ND | 0.11 J |
| 91-20-3 | NAPHTHALENE | 12 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | mg/kg | 0.52 J | ND | ND | 0.18 J | ND | ND | 0.17 J | 0.24 J |
| 108-95-2 | PHENOL | 0.33 | mg/kg | ND | ND | ND | 0.0795 J | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | mg/kg | 0.71 J | ND | 0.19 J | 0.23 J | ND | ND | 0.18 J | 0.48 J |
| | Total SVOCs | | mg/kg | 7.16 | 0.54 | 0.89 | 2.32 | 0.68 | 0.51 | 1.65 | 3.69 |
| | PCBs | | | | | | | | | | |
| 11096-82 | PCB-1260 (AROCLOR 1260) | 0.1 | mg/kg | 0.088 | ND | ND | ND | ND | ND | ND | ND |
| | METALS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | mg/kg | 6130 | 7320 | 6730 | 9300 | 1420 | 6030 | 8030 | 7780 |
| 7440-36-0 | ANTIMONY | -- | mg/kg | ND | ND | 0.537 J | 0.607 J | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | mg/kg | 3.07 | 1.32 | 3.29 | 3.02 | 3.47 | 5.49 | 2.17 | 2.48 |
| 7440-39-3 | BARIUM | 350 | mg/kg | 178 | 75.2 | 73.8 | 92 | 18.1 | 44.3 | 84.8 | 84.4 |
| 7440-41-7 | BERYLLIUM | 7.2 | mg/kg | 0.404 | 0.381 | 0.442 | 0.496 | 0.142 J | 0.426 | 0.596 | 0.536 |
| 7440-43-9 | CADMIUM | 2.5 | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | mg/kg | 17600 | 1800 | 35200 | 2680 | 14900 | 5330 | 10700 | 12100 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | mg/kg | 22.3 | 20.9 | 15.5 | 20.9 | 8.65 | 18.1 | 22.3 | 23.4 |
| 7440-48-4 | COBALT | -- | mg/kg | 7.93 | 11.9 | 7.58 | 11.5 | 1.65 | 5.89 | 12.5 | 11.2 |
| 7440-50-8 | COPPER | 50 | mg/kg | 20 | 18.5 | 16.6 | 17.5 | 8.8 | 18.6 | 17.4 | 18.5 |
| 7439-89-6 | IRON | -- | mg/kg | 15400 | 20000 | 16700 | 23500 | 5560 | 17600 | 21700 | 19600 |
| 7439-92-1 | LEAD | 63 | mg/kg | 112 | 4.17 | 87.8 | 35 | 41 | 63.2 | 76.6 | 113 |
| 7439-95-4 | MAGNESIUM | -- | mg/kg | 6970 | 3780 | 18900 | 4770 | 5870 | 4280 | 9300 | 9000 |
| 7439-96-5 | MANGANESE | 1600 | mg/kg | 201 | 170 | 227 | 233 | 64.8 | 304 | 301 | 322 |
| 7439-97-6 | MERCURY | 0.18 | mg/kg | 1.41 | ND | 0.175 | 0.053 | 0.038 | 0.145 | 0.064 | 0.064 |
| 7440-02-0 | NICKEL | 30 | mg/kg | 38.5 | 17.9 | 14.4 | 17.3 | 3.38 | 14 | 45.2 | 30.7 |
| 7440-09-7 | POTASSIUM | -- | mg/kg | 1760 | 4280 | 1870 | 3800 | 337 | 1480 | 2410 | 2060 |
| 7782-49-2 | SELENIUM | 3.9 | mg/kg | ND | 0.51 J | 0.347 J | 0.594 J | ND | 0.743 J | 0.406 J | 0.478 J |
| 7440-22-4 | SILVER | 2 | mg/kg | 1.07 | 1.1 | 1.12 | 1.52 | 0.296 J | 1.61 | 1.41 | 1.25 |
| 7440-23-5 | SODIUM | -- | mg/kg | 765 | 952 | 911 | 2330 | 1120 | 11900 | 2290 | 2580 |
| 7440-62-2 | VANADIUM | -- | mg/kg | 20.9 | 32 | 22.8 | 28.8 | 6.87 | 18.8 | 34.4 | 30 |
| 7440-66-6 | ZINC | 109 | mg/kg | 155 | 43.9 | 81.9 | 72.3 | 28.8 | 105 | 85.9 | 89.6 |
| | OTHER | | | | | | | | | | |
| 57-12-5 | CYANIDE | 27 | mg/kg | 1.86 | ND | 0.194 J | 0.238 J | 0.221 J | 0.056 J | 0.205 J | 0.345 |

- Notes:
(1) 6NYCRR Part 375 Environmental Remediation Programs (December 14, 2006)
(2) -- indicates no cleanup objective or background level is available
(3) ND indicates compound was not detected
(4) J indicates an estimated concentration
(4) J+ indicates an estimated concentration that is biased high
Shaded values exceed 6NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives
Shaded values exceed 6NYCRR Part 375 Industrial Use Soil Cleanup Objectives

Table 3
Summary of Soil Analytical Data
Former Hunts Point MTS Gas Works
Consolidated Edison Company of New York
Site Characterization - October 2014

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 Detected compounds only Exceedances highlighted | | Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: | | MW-4 (49-51)-20141003 F4241-05 49 - 51 ft CTECH F4241 SOIL 10/3/2014 8:30 11/12/2014 | SB-1 (7-9)-20141007 F4241-12 7 - 9 ft CTECH F4241 SOIL 10/7/2014 13:47 11/12/2014 | SB-1 (17-19)-20141007 F4241-13 17 - 19 ft CTECH F4241 SOIL 10/7/2014 14:15 11/12/2014 | SB-2 (29-11)-20141008 F4241-14 9 - 11 ft CTECH F4241 SOIL 10/8/2014 11:25 11/12/2014 | SB-2 (39-41)-20141009 F4241-15 39 - 41 ft CTECH F4241 SOIL 10/9/2014 8:30 11/12/2014 | SB-3 (15-17)-20141009 F4241-16 15 - 17 ft CTECH F4241 SOIL 10/9/2014 11:25 11/12/2014 | SB-3 (35-37)-20141009 F4241-17 35 - 37 ft CTECH F4241 SOIL 10/9/2014 14:00 11/12/2014 |
|--|----------------------------------|--|---|--|---|---|--|--|---|---|
| CAS NO. | COMPOUND | NYSDEC Part 375 Unrestricted Use Soils Criteria | NYSDEC Part 375 Industrial Use Soils Criteria | UNITS: | | | | | | |
| VOLATILES | | | | | | | | | | |
| 71-55-6 | I,1,1-TRICHLOROETHANE | 680 | 1000 | mg/kg | ND | ND | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 1000 | mg/kg | ND | ND | ND | 0.0095 J+ | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 1000 | mg/kg | 0.015 J | 0.0086 J | 0.0427 | 0.0162 J | 0.11 | 0.0077 J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/kg | ND | ND | 0.0065 | ND | 0.0113 | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 780 | mg/kg | ND | ND | ND | ND | 0.047 J+ | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/kg | ND | ND | ND | ND | 0.0441 J+ | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 1000 | mg/kg | ND | ND | ND | ND | 0.0329 J | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/kg | ND | ND | ND | ND | 0.0022 J | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 1000 | mg/kg | 0.0051 J | 0.0049 J | 0.0053 J | 0.0058 | 0.0146 | 0.0027 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 1000 | mg/kg | ND | ND | ND | ND | 0.0099 J+ | ND |
| | Total VOCs | | | mg/kg | 0.0201 | 0.0135 | 0.0545 | 0.022 | 0.2815 | 0.0104 |
| SEMI-VOLATILES | | | | | | | | | | |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/kg | ND | ND | ND | ND | 0.7 J | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 1000 | mg/kg | ND | ND | ND | ND | 0.61 J | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 1000 | mg/kg | ND | ND | ND | ND | 0.48 J | ND |
| 120-12-7 | ANTHRACENE | 100 | 1000 | mg/kg | ND | ND | ND | ND | 1.4 | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 11 | mg/kg | ND | ND | ND | 0.88 J | 2.1 | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1.1 | mg/kg | ND | ND | ND | 0.62 J | 1.6 | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 11 | mg/kg | ND | ND | ND | 0.8 J | 1.5 | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 1000 | mg/kg | ND | ND | ND | 0.39 J | 0.75 J | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 110 | mg/kg | ND | ND | ND | 0.46 J | 0.62 J | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/kg | ND | 0.14 J | ND | 1.3 J | ND | 0.4 |
| 218-01-9 | CHRYSENE | 1 | 110 | mg/kg | ND | ND | ND | 0.78 J | 1.9 | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/kg | ND | ND | ND | ND | ND | 0.38 |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/kg | 0.35 J | 0.41 | 0.44 | ND | 0.71 J | 0.38 |
| 206-44-0 | FLUORANTHENE | 100 | 1000 | mg/kg | ND | 0.12 J | 0.0864 J | 1.9 | 2.9 | 0.074 J |
| 86-73-7 | FLUORENE | 30 | 1000 | mg/kg | ND | ND | ND | ND | 0.67 J | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 11 | mg/kg | ND | ND | ND | 0.39 J | 0.68 J | ND |
| 91-20-3 | NAPHTHALENE | 12 | 1000 | mg/kg | ND | ND | ND | ND | 0.36 J | ND |
| 85-01-8 | PHENANTHRENE | 100 | 1000 | mg/kg | ND | 0.0869 J | ND | 1.2 J | 3.7 | ND |
| 108-95-2 | PHENOL | 0.33 | 1000 | mg/kg | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 1000 | mg/kg | ND | 0.1 J | 0.0864 J | 1.5 J | 3.2 | ND |
| | Total SVOCs | | | mg/kg | 0.35 | 0.86 | 0.61 | 10.22 | 23.88 | 1.23 |
| PCBs | | | | | | | | | | |
| 11096-82 | PCB-1260 (AROCLOL 1260) | 0.1 | 25 | mg/kg | ND | ND | ND | ND | ND | ND |
| METALS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/kg | 3160 | 7420 | 8130 | 6700 | 10100 | 1710 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/kg | ND | ND | 0.963 J | ND | 0.998 J | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/kg | 0.789 J | 2.73 | 3.54 | 3.4 | 21.6 | 1.23 |
| 7440-39-3 | BARIUM | 350 | 10000 | mg/kg | 46.2 | 90.3 | 77.1 | 134 | 228 | 12.9 |
| 7440-41-7 | BERYLLIUM | 7.2 | 2700 | mg/kg | 0.218 J | 0.455 | 0.493 | 0.455 | 0.696 | 0.124 J |
| 7440-43-9 | CADMIUM | 2.5 | 60 | mg/kg | ND | ND | ND | ND | 0.682 | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/kg | 1160 | 1370 | 8590 | 34000 | 6130 | 785 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 6800 | mg/kg | 12 | 18.6 | 19.3 | 31.2 | 49.8 | 4.72 |
| 7440-48-4 | COBALT | -- | -- | mg/kg | 4.81 | 11.7 | 8.31 | 7.17 | 10.47 | 1.95 |
| 7440-50-8 | COPPER | 50 | 10000 | mg/kg | 7.16 | 18.5 | 21 | 31.1 | 150 | 4.04 |
| 7439-89-6 | IRON | -- | -- | mg/kg | 9190 | 20700 | 17900 | 17600 | 26800 | 5340 |
| 7439-92-1 | LEAD | 63 | 3900 | mg/kg | 6.39 | 53.1 | 121 | 131 | 478 | 10.07 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/kg | 1410 | 3270 | 6730 | 12900 | 6200 | 1030 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/kg | 261 J | 322 | 226 | 238 | 272 | 68.2 |
| 7439-97-6 | MERCURY | 0.18 | 5.7 | mg/kg | 0.011 J | 0.07 | 0.155 | 0.138 | 2.07 | 0.019 |
| 7440-02-0 | NICKEL | 30 | 10000 | mg/kg | 7.66 | 19.8 | 15.4 | 16.9 | 30.1 | 3.24 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/kg | 1110 J+ | 2880 | 1730 | 1430 | 2940 | 335 |
| 7782-49-2 | SELENIUM | 3.9 | 6800 | mg/kg | ND | 0.489 J | 0.451 J | 0.283 J | 1.89 | ND |
| 7440-22-4 | SILVER | 2 | 6800 | mg/kg | 0.53 | 1.35 | 1.2 | 1.16 | 6.76 | 0.31 J |
| 7440-23-5 | SODIUM | -- | -- | mg/kg | 2320 | 876 | 1920 | 2500 | 8500 | 79.9 J |
| 7440-62-2 | VANADIUM | -- | -- | mg/kg | 14.8 | 25.4 | 22.2 | 27.5 | 32.4 | 6.52 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/kg | 20.6 | 71.5 | 96.1 | 162 | 551 | 16.2 |
| OTHER | | | | | | | | | | |
| 57-12-5 | CYANIDE | 27 | 10000 | mg/kg | 0.065 J | 0.075 J | 0.04 J | 8.42 | 1.49 | ND |

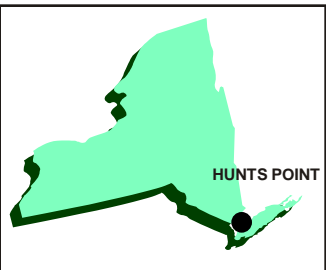
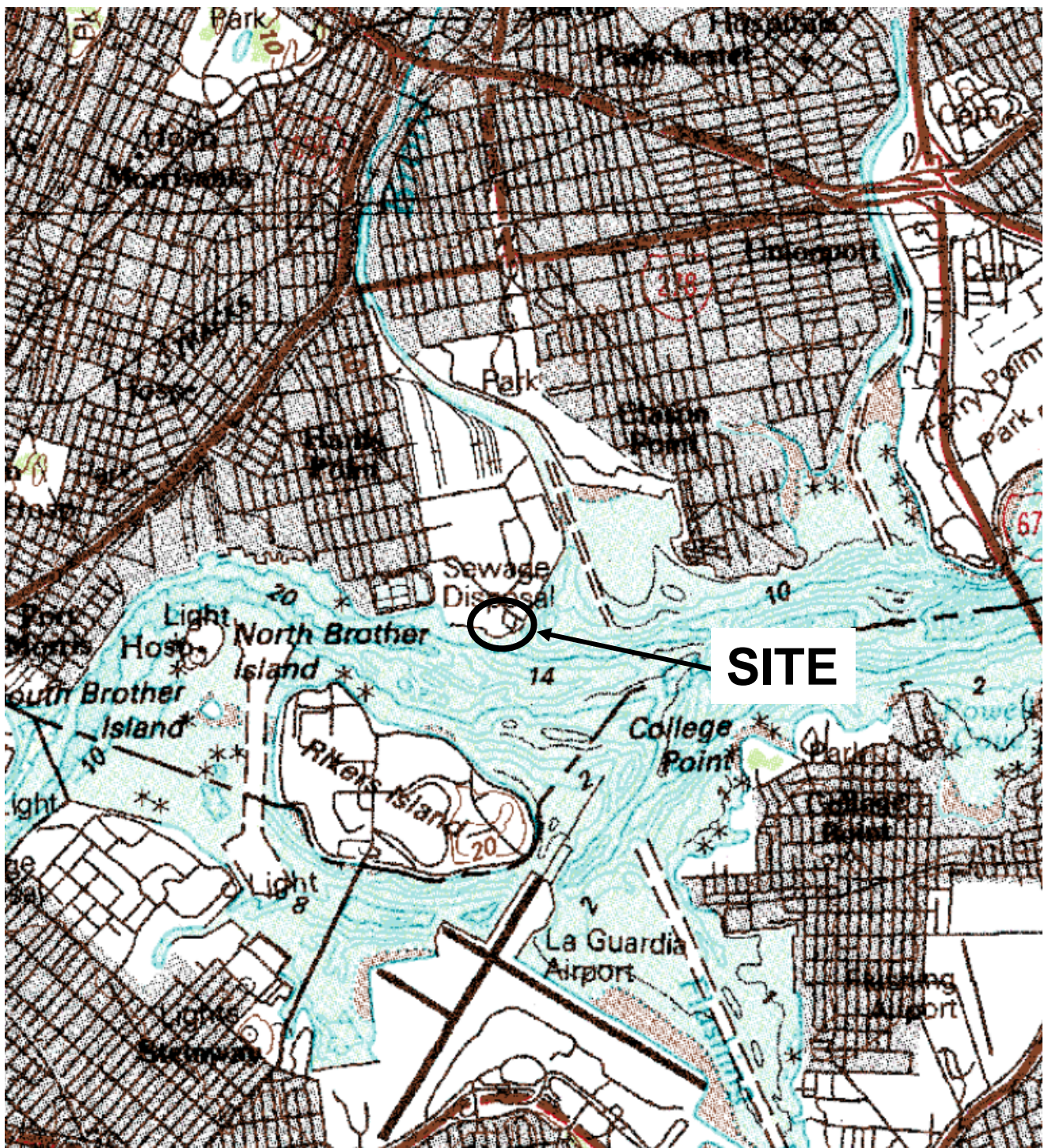
Notes:
(1) 6NYCRR Part 375 Environmental Remediation Programs (December 14, 2006)
(2) -- indicates no cleanup objective or background level is available
(3) ND indicates compound was not detected
(4) J indicates an estimated concentration
(4) J+ indicates an estimated concentration that is biased high
Shaded values exceed 6NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives
Shaded values exceed 6NYCRR Part 375 Industrial Use Soil Cleanup Objectives

Table 4
Summary of Groundwater Analytical Data
Former Hunts Point MTS Gas Works
Consolidated Edison Company of New York
Site Characterization - October 2014

| Con Ed - Hunts Point Validated Groundwater Analytical Data October 2014 SDG: F4556 Detected Compounds Only Exceedances Highlighted | | NYSDEC Class GA Standards | Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated: UNITS: | MW-1 | Field Duplicate MW-1 | MW-2 | MW-3 | MW-4 |
|---|-----------------------------|---------------------------------|--|--|---|--|--|--|
| CAS NO. | COMPOUND | | | MW-1-20141031 F4556-01 CTECH F4556 GROUNDWATER 10/30/2014 11:00 11/24/2014 | MW-11-20141031 F4556-04 CTECH F4556 GROUNDWATER 10/30/2014 11:20 11/24/2014 | MW-2-20141031 F4556-11 CTECH F4556 GROUNDWATER 10/31/2014 15:10 11/24/2014 | MW-3-20141031 F4556-07 CTECH F4556 GROUNDWATER 10/31/2014 10:05 11/24/2014 | MW-4-20141031 F4556-05 CTECH F4556 GROUNDWATER 10/30/2014 13:20 11/24/2014 |
| | VOLATILES | | | ND | ND | ND | ND | ND |
| | SEMIVOLATILES | | | | | | | |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | ug/l | 7.2 J | 18.7 | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | 5 | ug/l | 7.9 J | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 | ug/l | ND | 4.3 J | ND | ND | 3.1 J |
| | PCBs | 0.09 | ug/l | ND | ND | ND | ND | ND |
| | METALS | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/l | 156 | 219 | 13300 | 59.1 | 1970 |
| 7440-38-2 | ARSENIC | 25 | ug/l | 4.34 J | 4.7 J | 7.34 J | 3.09 J | 3.44 J |
| 7440-39-3 | BARIUM | 1000 | ug/l | 301 | 294 | 266 | 53.9 | 555 |
| 7440-41-7 | BERYLLIUM | 3 | ug/l | ND | ND | 0.72 J | ND | ND |
| 7440-70-2 | CALCIUM | -- | ug/l | 121200 | 119900 | 95000 | 153100 | 604600 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/l | 4.44 J | 10.48 | 35.2 | ND | 4.91 J |
| 7440-48-4 | COBALT | -- | ug/l | ND | ND | 11.9 J | ND | 6.07 J |
| 7440-50-8 | COPPER | 200 | ug/l | ND | 2.45 J | 35.6 | 8.12 J | 9.7 J |
| 7439-89-6 | IRON | 300 | ug/l | 3280 | 3400 | 16700 | 148 | 6300 |
| 7439-92-1 | LEAD | 25 | ug/l | 6.31 | 5.97 J | 151 | 1.85 J | 11.2 |
| 7439-95-4 | MAGNESIUM | 35000 | ug/l | 12600 | 12600 | 43000 | 553000 | 180900 |
| 7439-96-5 | MANGANESE | 300 | ug/l | 1270 | 1250 | 1120 | 13.5 | 8260 |
| 7439-97-6 | MERCURY | 0.7 | ug/l | ND | ND | 0.589 | ND | ND |
| 7440-02-0 | NICKEL | -- | ug/l | ND | ND | 34.3 | ND | 6.98 J |
| 7440-09-7 | POTASSIUM | -- | ug/l | 13700 | 13800 | 37600 | 213400 | 186400 |
| 7440-23-5 | SODIUM | 20000 | ug/l | 459800 | 457300 | 2895100 | ND | 23762000 |
| 7440-62-2 | VANADIUM | -- | ug/l | ND | ND | 28.5 | ND | ND |
| 7440-66-6 | ZINC | 2000 | ug/l | 6.79 J | 8.35 J | 130 | ND | 7.59 J |
| | DISSOLVED METALS | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/l | | | 52 | | |
| 7440-38-2 | ARSENIC | 25 | ug/l | | | 7.19 J | | |
| 7440-39-3 | BARIUM | 1000 | ug/l | | | 161 | | |
| 7440-70-2 | CALCIUM | NA | ug/l | | | 111300 | | |
| 7440-50-8 | COPPER | 200 | ug/l | | | 10.75 | | |
| 7439-89-6 | IRON | 300 | ug/l | | | 145 | | |
| 7439-92-1 | LEAD | 25 | ug/l | | | 4.78 J | | |
| 7439-95-4 | MAGNESIUM | 35000 | ug/l | | | 46100 | | |
| 7439-96-5 | MANGANESE | 300 | ug/l | | | 1120 | | |
| 7440-02-0 | NICKEL | -- | ug/l | | | 13.2 J | | |
| 7440-09-7 | POTASSIUM | -- | ug/l | | | 39300 | | |
| 7440-66-6 | ZINC | 2000 | ug/l | | | 13.3 J | | |
| | OTHER | | | | | | | |
| 57-12-5 | CYANIDE | 200 | mg/l | 0.011 | 0.012 | 0.235 | 0.011 | 0.132 |

- (1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (June 1998)
- (2) -- indicates no standard or guidance value is available
- (3) ND indicates compound was not detected
- (4) J indicates an estimated concentration
- (5) Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values

FIGURES



New York
Quadrangle

LATITUDE: N40° 48' 33"
LONGITUDE: W73° 52' 48"



SOURCE: DeLORME 3-D
TOPOQUAD PROGRAM

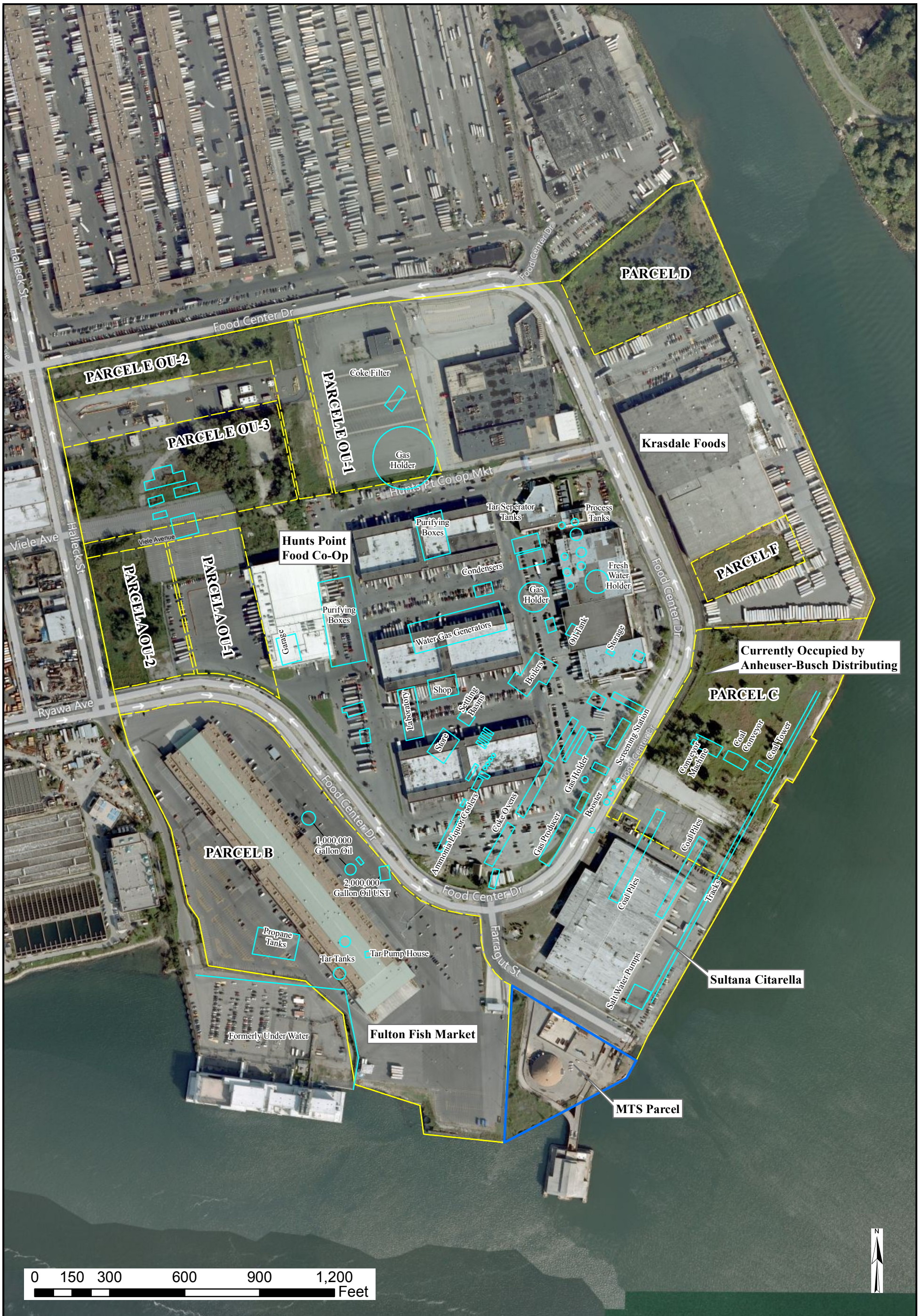
FIGURE 1

CONSOLIDATED EDISON COMPANY OF NEW YORK
FORMER HUNTS POINT GAS WORKS
MTS PARCEL
BRONX, NEW YORK

SITE VICINITY MAP

PARSONS

200 COTTONTAIL ROAD, SOMERSET NJ 08873 PHONE: (732) 537-3500



Legend

- Approximate Site Boundary
- Approximate Boundary of Former Gas Works Facilities
- Approximate Boundary of Parcels
- Approximate Location of Former Gas Works Facilities

FIGURE 2

CONSOLIDATED EDISON COMPANY OF NEW YORK
 FORMER HUNTS POINT GAS WORKS
 MTS PARCEL
 BRONX, NEW YORK

SITE LOCATION MAP

PARSONS

200 COTTONTAIL LANE SOUTH, SOMERSET, NJ 08873 PHONE: (732) 537-3500

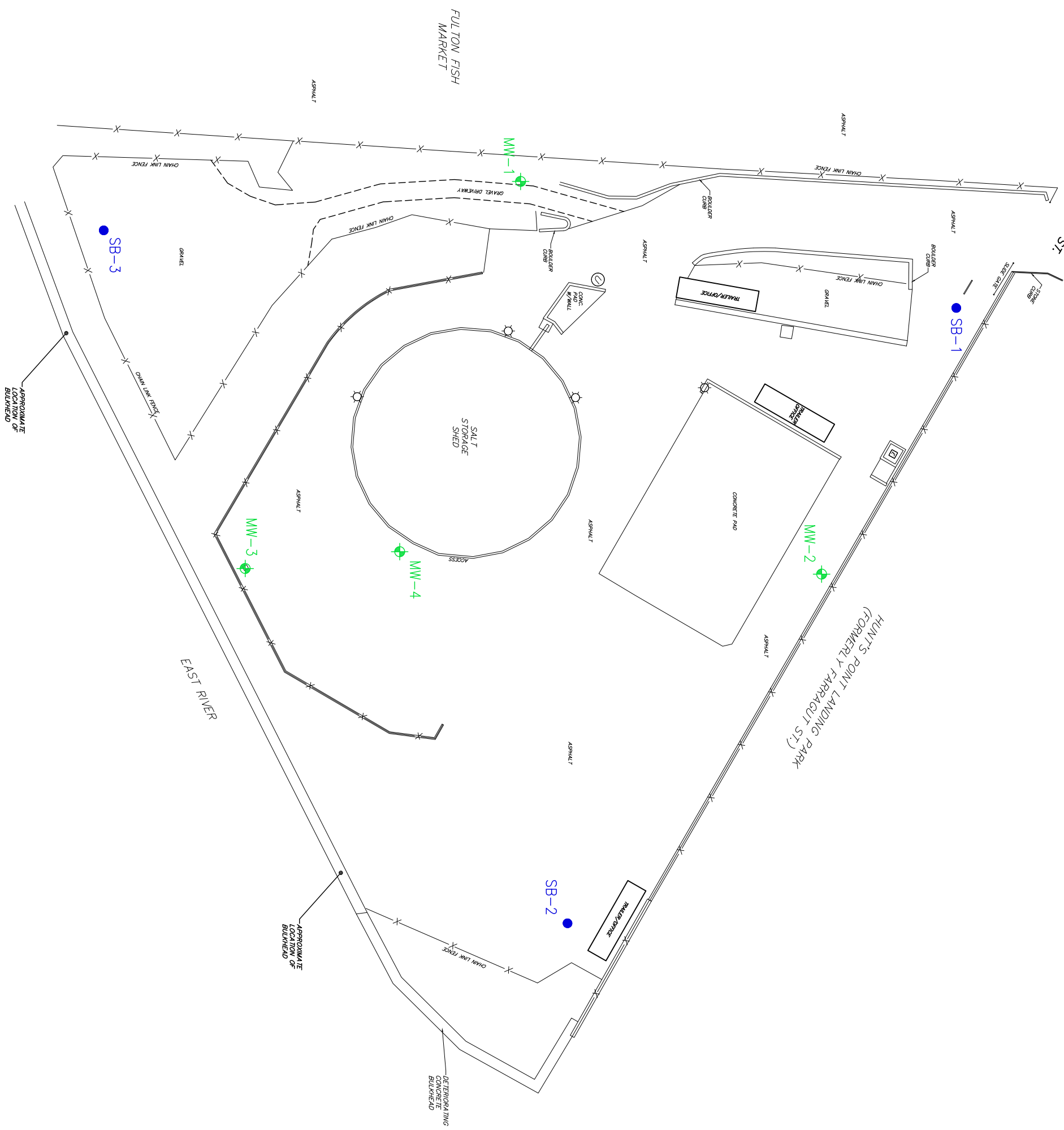


FARRAGUT ST

FULTON FISH MARKET

HUNTS POINT LANDING PARK
(FORMERLY FARRAGUT ST.)

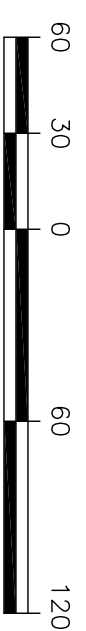
EAST RIVER



LEGEND:

-  SITE CHARACTERIZATION MONITORING WELL LOCATIONS
-  SITE CHARACTERIZATION SOIL BORING LOCATIONS

NOTE:
MAP BASED ON ORIGINAL SURVEY COMPLETED BY CHAZEN ENGINEERING, LAND SURVEY, AND LANDSCAPE ARCHITECTURE CO., D.C.P. ON OCTOBER 9, 2014.



SCALE: 1" = 60'

FIGURE 3

CON EDISON
HUNTS POINT MTS
BRONX, NEW YORK

SAMPLE LOCATION MAP

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE: 315-451-9560



| | | |
|-----------------------------|--------|--------|
| SB-1 | 7-9' | 17-19' |
| VOC | | |
| ACETONE | 0.0086 | 0.0427 |
| CARBON DISULFIDE | ND | 0.0065 |
| METHYLENE CHLORIDE | 0.0049 | 0.0053 |
| SVOC | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 0.14 | ND |
| DIMETHYL PHTHALATE | 0.41 | 0.44 |
| FLUORANTHRENE | 0.12 | 0.0864 |
| PHENANTHRENE | 0.0869 | ND |
| PYRENE | 0.1 | 0.0864 |

| | | |
|-----------------------------|--------|--------|
| MW-1 | 7-9' | 23-25' |
| VOC | | |
| 1,1,1-TRICHLOROETHANE | ND | 0.0043 |
| ACETONE | 0.0371 | 0.013 |
| CARBON DISULFIDE | 0.0035 | ND |
| METHYLENE CHLORIDE | 0.0035 | 0.0041 |
| SVOC | | |
| BENZO(A)ANTHRACENE | 0.52 | ND |
| BENZO(A)PYRENE | 0.41 | ND |
| BENZO(B)FLUORANTHRENE | 0.56 | ND |
| BIS(2-ETHYLHEXYL) PHTHALATE | 2.6 | 0.19 |
| CHRYSENE | 0.41 | ND |
| DIMETHYL PHTHALATE | 0.61 | 0.35 |
| FLUORANTHRENE | 0.82 | ND |
| PHENANTHRENE | 0.52 | ND |
| PYRENE | 0.71 | ND |
| PCB-1260 | 0.088 | ND |

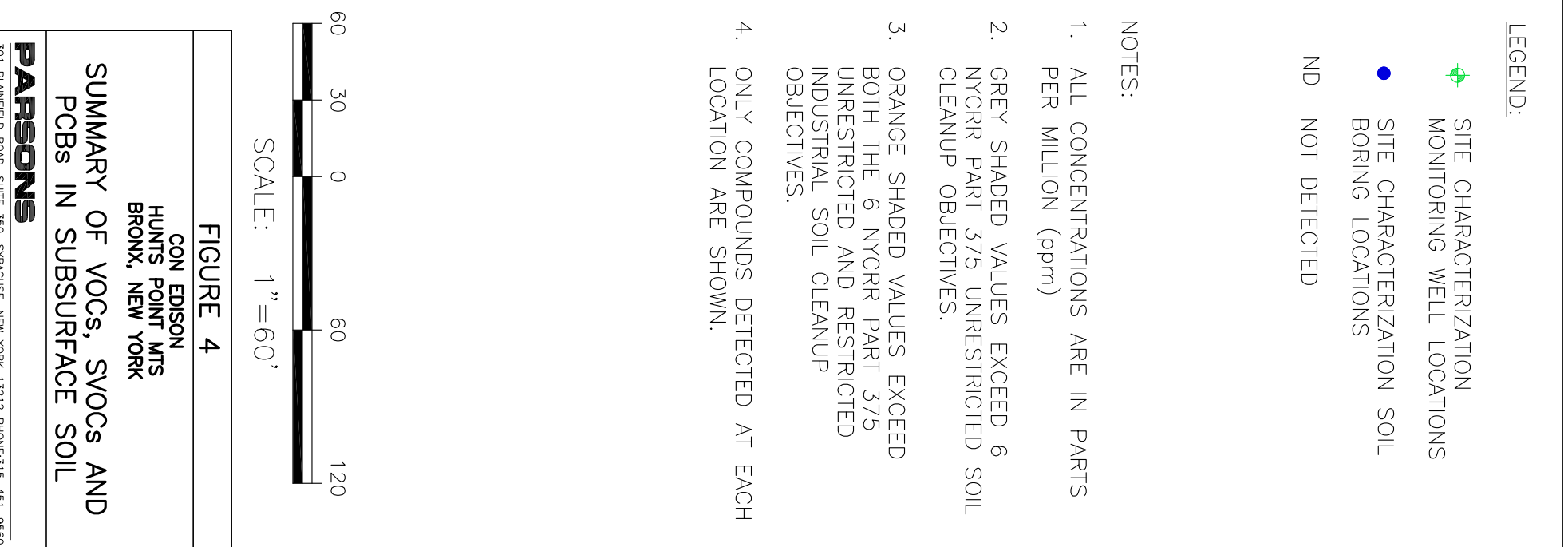
| | | |
|-----------------------------|--------|--------|
| MW-2 | 5-7' | 25-27' |
| VOC | | |
| ACETONE | 0.0181 | 0.0275 |
| CARBON DISULFIDE | ND | 0.0039 |
| METHYLENE CHLORIDE | 0.0042 | 0.0054 |
| SVOC | | |
| BENZO(A)ANTHRACENE | ND | 0.16 |
| BENZO(A)PYRENE | ND | 0.13 |
| BENZO(B)FLUORANTHRENE | ND | 0.15 |
| BENZO(G,H,I)PERYLENE | ND | 0.15 |
| BENZO(K)FLUORANTHRENE | ND | 0.0924 |
| BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.11 |
| CHRYSENE | ND | 0.17 |
| DIMETHYL PHTHALATE | 0.53 | 0.5 |
| FLUORANTHRENE | 0.17 | 0.25 |
| INDENO(1,2,3-C,D)PYRENE | ND | 0.12 |
| PHENANTHRENE | ND | 0.18 |
| PHENOL | ND | 0.0795 |
| PYRENE | 0.19 | 0.23 |

| | | |
|-----------------------------|--------|--------|
| SB-2 | 9-11' | 39-41' |
| VOC | | |
| M,P-XYLENE | ND | 0.0095 |
| ACETONE | 0.0162 | 0.11 |
| CARBON DISULFIDE | ND | 0.0113 |
| ETHYLBENZENE | ND | 0.047 |
| ISOPROPYLBENZENE | ND | 0.0441 |
| METHYL ETHYL KETONE | ND | 0.0329 |
| METHYLCYCLOHEXANE | ND | 0.0022 |
| METHYLENE CHLORIDE | 0.0058 | 0.0146 |
| O-XYLENE | ND | 0.0099 |
| SVOC | | |
| 2-METHYLNAPHTHALENE | ND | 0.7 |
| ACENAPHTHENE | ND | 0.61 |
| 7-9'N | ND | 0.48 |
| ANTHRACENE | ND | 1.4 |
| BENZO(A)ANTHRACENE | 0.88 | 2.1 |
| BENZO(A)PYRENE | 0.62 | 1.6 |
| BENZO(B)FLUORANTHRENE | 0.8 | 1.5 |
| BENZO(G,H,I)PERYLENE | 0.39 | 0.75 |
| BENZO(K)FLUORANTHRENE | 0.46 | 0.62 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 1.3 | ND |
| CHRYSENE | 0.78 | 1.9 |
| DIMETHYL PHTHALATE | ND | 0.71 |
| FLUORANTHRENE | 1.9 | 2.9 |
| FLUORENE | ND | 0.67 |
| INDENO(1,2,3-C,D)PYRENE | 0.39 | 0.68 |
| NAPHTHALENE | ND | 0.36 |
| PHENANTHRENE | 1.2 | 3.7 |
| PYRENE | 1.5 | 3.2 |

| | | |
|-----------------------------|--------|--------|
| SB-3 | 15-17' | 35-37' |
| VOC | | |
| ACETONE | 0.0077 | 0.0112 |
| METHYLENE CHLORIDE | 0.0027 | 0.0062 |
| SVOC | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 0.4 | ND |
| DIMETHYL PHTHALATE | 0.38 | 0.32 |
| FLUORANTHRENE | 0.074 | 0.46 |
| ND | | |

| | | |
|-----------------------------|--------|--------|
| MW-3 | 11-13' | 29-31' |
| VOC | | |
| ACETONE | 0.0185 | 0.1 |
| CARBON DISULFIDE | ND | 0.0055 |
| METHYL ETHYL KETONE | ND | 0.0186 |
| METHYLENE CHLORIDE | 0.0049 | 0.0052 |
| SVOC | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 0.28 | 0.0954 |
| DIMETHYL PHTHALATE | 0.4 | 0.41 |

| | | | |
|-----------------------------|--------|------------|--------|
| MW-4 | 11-13' | 11-13 DUP' | 49-51' |
| VOC | | | |
| ACETONE | 0.0181 | 0.024 | 0.015 |
| METHYLENE CHLORIDE | 0.0054 | 0.0048 | 0.0051 |
| SVOC | | | |
| ANTHRACENE | ND | 0.0978 | ND |
| BENZO(A)ANTHRACENE | 0.0881 | 0.29 | ND |
| BENZO(A)PYRENE | ND | 0.23 | ND |
| BENZO(B)FLUORANTHRENE | 0.0921 | 0.27 | ND |
| BENZO(G,H,I)PERYLENE | ND | 0.12 | ND |
| BIS(2-ETHYLHEXYL) PHTHALATE | 0.83 | 0.67 | ND |
| CHRYSENE | 0.0936 | 0.26 | ND |
| DIMETHYL PHTHALATE | 0.57 | 0.39 | 0.35 |
| FLUORANTHRENE | 0.2 | 0.53 | ND |
| INDENO(1,2,3-C,D)PYRENE | ND | 0.11 | ND |
| PHENANTHRENE | 0.17 | 0.24 | ND |
| PYRENE | 0.18 | 0.48 | ND |





| SB-1 | | |
|-----------------|-------|--------|
| | 7-9' | 17-19' |
| METALS | | |
| ALUMINUM | 7420 | 8130 |
| ANTIMONY | ND | 0.963 |
| ARSENIC | 2.73 | 3.54 |
| BARIIUM | 90.3 | 77.1 |
| BERYLLIUM | 0.455 | 0.493 |
| CALCIUM | 1370 | 8590 |
| CHROMIUM, TOTAL | 18.6 | 19.3 |
| COBALT | 11.7 | 8.31 |
| COPPER | 18.5 | 21 |
| IRON | 20700 | 17900 |
| LEAD | 53.1 | 121 |
| MAGNESIUM | 3270 | 6730 |
| MANGANESE | 322 | 226 |
| MERCURY | 0.07 | 0.155 |
| NICKEL | 19.8 | 15.4 |
| POTASSIUM | 2880 | 1730 |
| SELENIUM | 0.489 | 0.451 |
| SILVER | 1.35 | 1.2 |
| SODIUM | 876 | 1920 |
| VANADIUM | 25.4 | 22.2 |
| ZINC | 71.5 | 96.1 |

| MW-1 | | |
|-----------------|-------|--------|
| | 7-9' | 23-25' |
| METALS | | |
| ALUMINUM | 6130 | 7320 |
| ARSENIC | 3.07 | 1.32 |
| BARIIUM | 178 | 73.2 |
| BERYLLIUM | 0.404 | 0.381 |
| CALCIUM | 17600 | 1800 |
| CHROMIUM, TOTAL | 22.3 | 20.9 |
| COBALT | 7.93 | 11.9 |
| COPPER | 20 | 18.5 |
| IRON | 15400 | 20000 |
| LEAD | 112 | 4.17 |
| MAGNESIUM | 6970 | 3780 |
| MANGANESE | 201 | 170 |
| MERCURY | 1.41 | ND |
| NICKEL | 38.5 | 17.9 |
| POTASSIUM | 1760 | 4280 |
| SELENIUM | ND | 0.51 |
| SILVER | 1.07 | 1.1 |
| SODIUM | 765 | 952 |
| VANADIUM | 20.9 | 32 |
| ZINC | 155 | 43.9 |

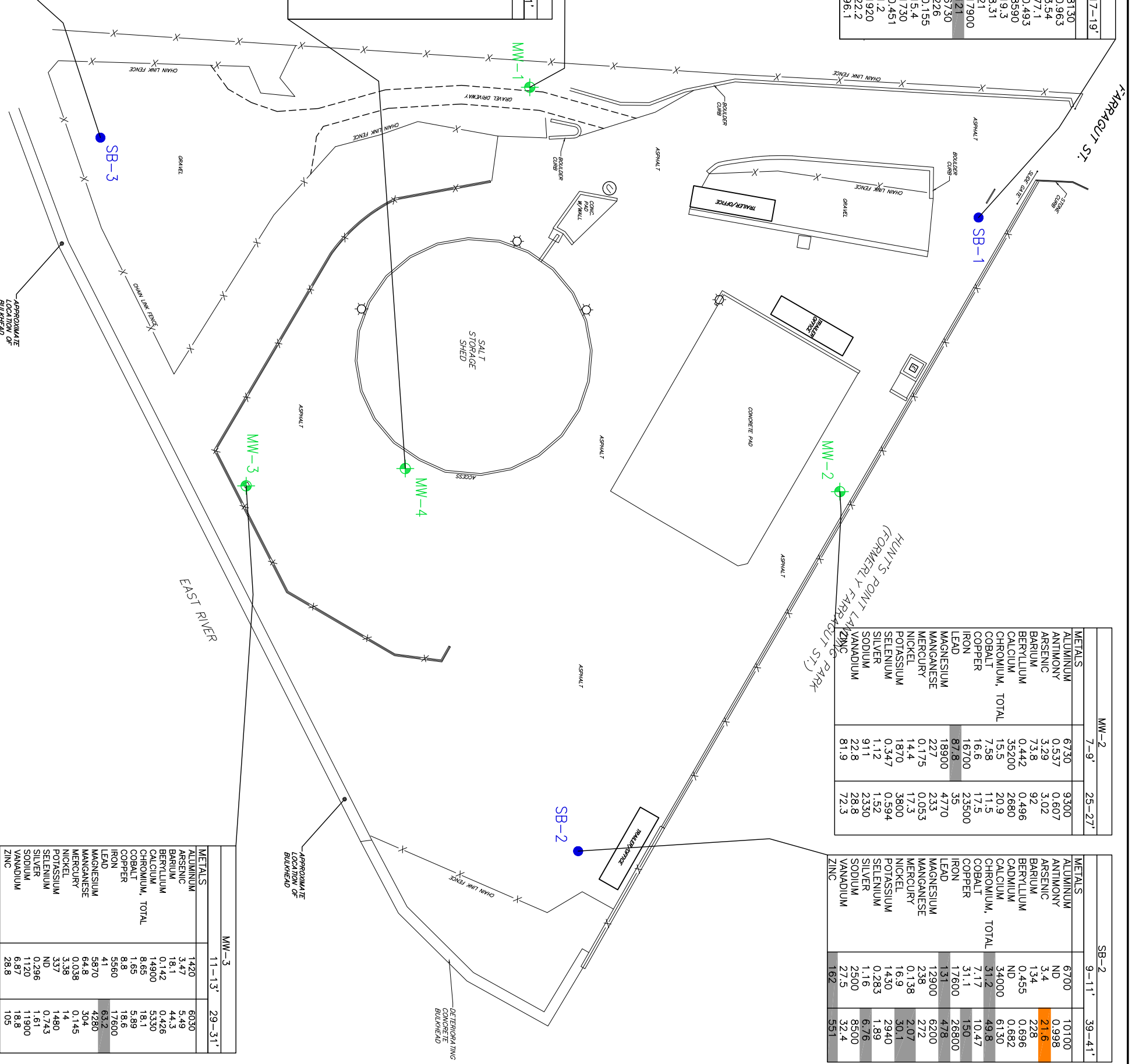
| MW-4 (DUP) | | | |
|-----------------|--------|--------|--------|
| | 11-13' | 11-13' | 49-51' |
| METALS | | | |
| ALUMINUM | 8030 | 7780 | 3160 |
| ARSENIC | 2.17 | 2.48 | 0.789 |
| BARIIUM | 84.8 | 84.4 | 46.2 |
| BERYLLIUM | 0.596 | 0.536 | 0.218 |
| CALCIUM | 10700 | 12100 | 1160 |
| CHROMIUM, TOTAL | 22.3 | 23.4 | 12 |
| COBALT | 12.5 | 11.2 | 4.81 |
| COPPER | 17.4 | 18.5 | 7.16 |
| IRON | 21700 | 19600 | 9190 |
| LEAD | 76.6 | 113 | 6.39 |
| MAGNESIUM | 9300 | 9000 | 1410 |
| MANGANESE | 301 | 322 | 261 |
| MERCURY | 0.064 | 0.064 | 0.011 |
| NICKEL | 45.2 | 30.7 | 7.66 |
| POTASSIUM | 2410 | 2060 | 1110 |
| SELENIUM | 0.406 | 0.478 | ND |
| SILVER | 1.41 | 1.25 | 0.53 |
| SODIUM | 2290 | 2580 | 2320 |
| VANADIUM | 34.4 | 30 | 14.8 |
| ZINC | 85.9 | 89.6 | 20.6 |

| SB-3 | | |
|-----------------|--------|--------|
| | 15-17' | 35-37' |
| METALS | | |
| ALUMINUM | 1710 | 7730 |
| ARSENIC | 1.23 | 1.83 |
| BARIIUM | 12.9 | 73 |
| BERYLLIUM | 0.124 | 0.477 |
| CALCIUM | 785 | 2090 |
| CHROMIUM, TOTAL | 4.72 | 22.8 |
| COBALT | 1.95 | 10.83 |
| COPPER | 4.04 | 21.6 |
| IRON | 5340 | 20800 |
| LEAD | 10.07 | 4 |
| MAGNESIUM | 1030 | 4100 |
| MANGANESE | 68.2 | 152 |
| MERCURY | 0.019 | ND |
| NICKEL | 3.24 | 18.9 |
| POTASSIUM | 335 | 3330 |
| SELENIUM | ND | 0.612 |
| SILVER | 0.31 | 1.3 |
| SODIUM | 79.9 | 3540 |
| VANADIUM | 32.1 | 32.1 |
| ZINC | 16.2 | 41.3 |

| MW-2 | | |
|-----------------|-------|--------|
| | 7-9' | 25-27' |
| METALS | | |
| ALUMINUM | 6730 | 9300 |
| ANTIMONY | 0.537 | 0.607 |
| ARSENIC | 3.29 | 3.02 |
| BARIIUM | 73.8 | 92 |
| BERYLLIUM | 0.442 | 0.496 |
| CALCIUM | 35200 | 2680 |
| CHROMIUM, TOTAL | 15.5 | 20.9 |
| COBALT | 7.58 | 11.5 |
| COPPER | 16.6 | 17.5 |
| IRON | 16700 | 23500 |
| LEAD | 87.8 | 35 |
| MAGNESIUM | 18900 | 4770 |
| MANGANESE | 227 | 233 |
| MERCURY | 0.175 | 0.053 |
| NICKEL | 14.4 | 17.3 |
| POTASSIUM | 1870 | 3800 |
| SELENIUM | 0.347 | 0.394 |
| SILVER | 1.12 | 1.52 |
| SODIUM | 911 | 2330 |
| VANADIUM | 22.8 | 28.8 |
| ZINC | 81.9 | 72.3 |

| SB-2 | | |
|-----------------|-------|--------|
| | 9-11' | 39-41' |
| METALS | | |
| ALUMINUM | 6700 | 10100 |
| ANTIMONY | ND | 0.998 |
| ARSENIC | 3.4 | 21.6 |
| BARIIUM | 134 | 228 |
| BERYLLIUM | 0.455 | 0.696 |
| CALCIUM | ND | 0.682 |
| CADMIUM | 6130 | 6130 |
| CHROMIUM, TOTAL | 34000 | 49.8 |
| COBALT | 31.2 | 49.8 |
| COPPER | 7.17 | 10.47 |
| IRON | 31.1 | 130 |
| LEAD | 17600 | 26800 |
| MAGNESIUM | 131 | 478 |
| MANGANESE | 12900 | 6200 |
| MERCURY | 238 | 272 |
| NICKEL | 0.138 | 2.07 |
| POTASSIUM | 16.9 | 30.1 |
| SELENIUM | 1430 | 2940 |
| SILVER | 1.89 | 1.89 |
| SODIUM | 1.16 | 6.76 |
| VANADIUM | 2500 | 8500 |
| ZINC | 27.5 | 32.4 |
| | 162 | 551 |

| MW-3 | | |
|-----------------|--------|--------|
| | 11-13' | 29-31' |
| METALS | | |
| ALUMINUM | 1420 | 6030 |
| ARSENIC | 3.47 | 5.49 |
| BARIIUM | 18.1 | 44.3 |
| BERYLLIUM | 0.142 | 0.426 |
| CALCIUM | 14900 | 5330 |
| CHROMIUM, TOTAL | 8.65 | 18.1 |
| COBALT | 1.65 | 5.89 |
| COPPER | 8.8 | 18.6 |
| IRON | 5560 | 17600 |
| LEAD | 41 | 63.2 |
| MAGNESIUM | 5870 | 4280 |
| MANGANESE | 64.8 | 304 |
| MERCURY | 0.038 | 0.145 |
| NICKEL | 3.38 | 14 |
| POTASSIUM | 337 | 1480 |
| SELENIUM | ND | 0.743 |
| SILVER | 0.296 | 1.61 |
| SODIUM | 1120 | 11900 |
| VANADIUM | 6.87 | 18.8 |
| ZINC | 28.8 | 105 |



LEGEND:

- 📍 SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- 🔵 SITE CHARACTERIZATION SOIL BORING LOCATIONS
- ND NOT DETECTED

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm)
2. GREY SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. ORANGE SHADED VALUES EXCEED BOTH THE 6 NYCRR PART 375 UNRESTRICTED AND RESTRICTED INDUSTRIAL SOIL CLEANUP OBJECTIVES.

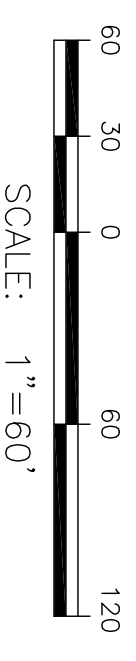


FIGURE 5
CON EDISON
HUNTS POINT MTS
BRONX, NEW YORK
SUMMARY OF METALS IN
SUBSURFACE SOIL

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560

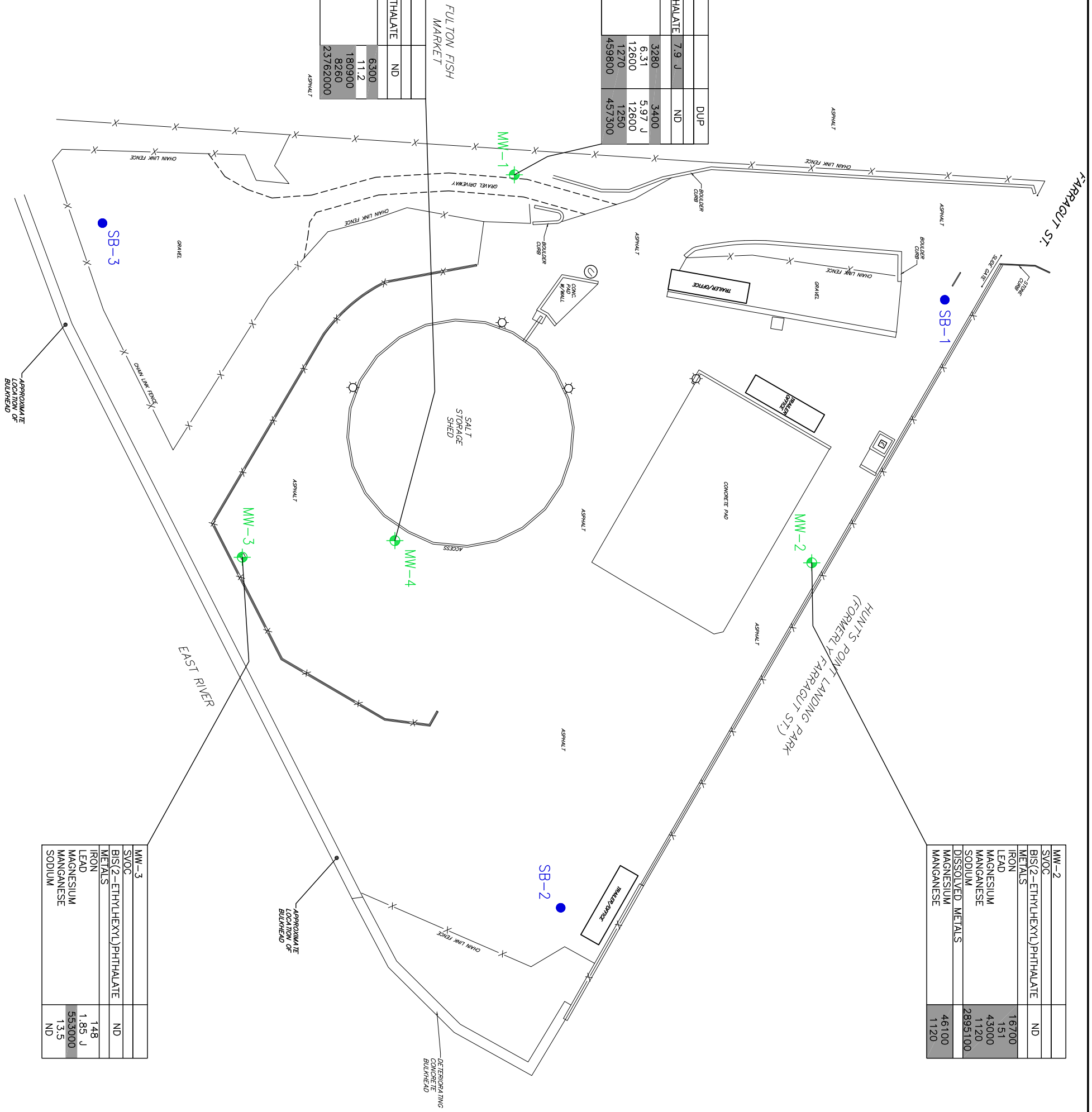


| | | |
|----------------------------|--------|--------|
| MW-1 | | DUP |
| SVOC | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | 7.9 J | ND |
| METALS | | |
| IRON | 3280 | 3400 |
| LEAD | 6.31 | 5.97 J |
| MANGANESE | 12600 | 12600 |
| MANGANESE | 1270 | 1250 |
| SODIUM | 459800 | 457300 |

| | | |
|----------------------------|----------|--|
| MW-4 | | |
| SVOC | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | |
| METALS | | |
| IRON | 6300 | |
| LEAD | 11.2 | |
| MANGANESE | 180900 | |
| MANGANESE | 8260 | |
| SODIUM | 23762000 | |

| | | |
|----------------------------|---------|--|
| MW-2 | | |
| SVOC | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | |
| METALS | | |
| IRON | 16700 | |
| LEAD | 151 | |
| MANGANESE | 43000 | |
| MANGANESE | 1120 | |
| SODIUM | 2895100 | |
| DISSOLVED METALS | | |
| MANGANESE | 46100 | |
| MANGANESE | 1120 | |

| | | |
|----------------------------|--------|--|
| MW-3 | | |
| SVOC | | |
| BIS(2-ETHYLHEXYL)PHTHALATE | ND | |
| METALS | | |
| IRON | 148 | |
| LEAD | 1.85 J | |
| MANGANESE | 553000 | |
| MANGANESE | 13.5 | |
| SODIUM | ND | |



LEGEND:

- + SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- ND NOT DETECTED

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (ug/L)
2. SHADED VALUES EXCEED NYSDEC AMBIENT WATER QUALITY CLEANUP OBJECTIVES.
3. COMPOUNDS THAT EXCEEDED NYSDEC AMBIENT WATER QUALITY CLEANUP OBJECTIVES IN ONE OR MORE GROUNDWATER SAMPLES SHOWN.
4. NO VOCs OR PCBs EXCEEDED NYSDEC AMBIENT WATER QUALITY CLEANUP OBJECTIVES.

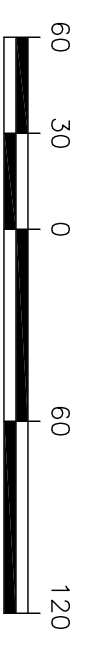


FIGURE 6

CON EDISON
HUNTS POINT MTS
BRONX, NEW YORK

SUMMARY OF VOCs, SVOCs, PCBs,
AND METALS IN GROUNDWATER



301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560

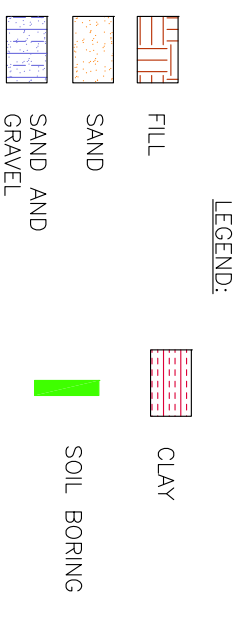
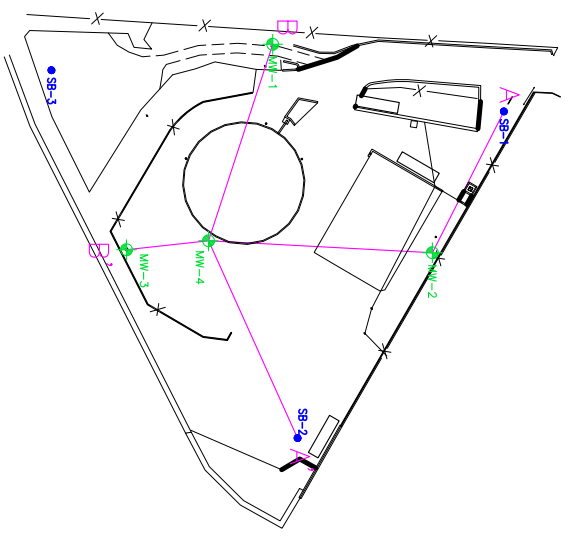
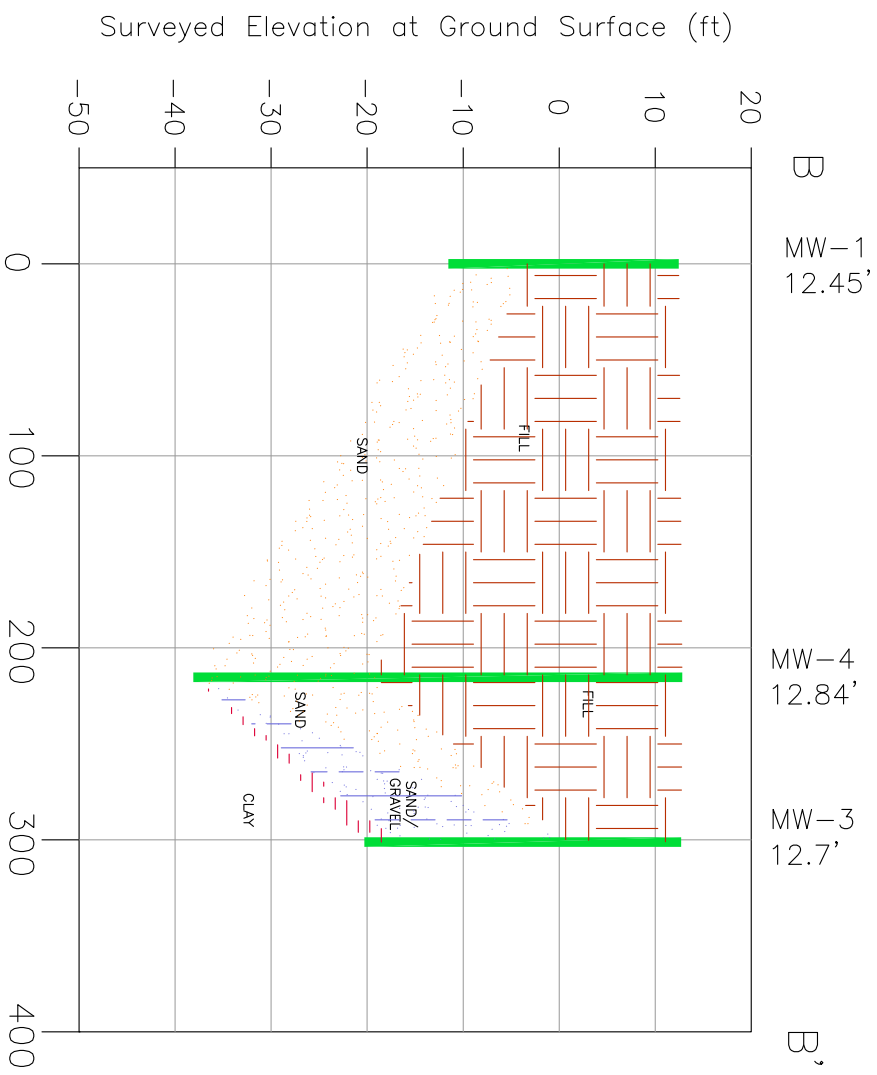
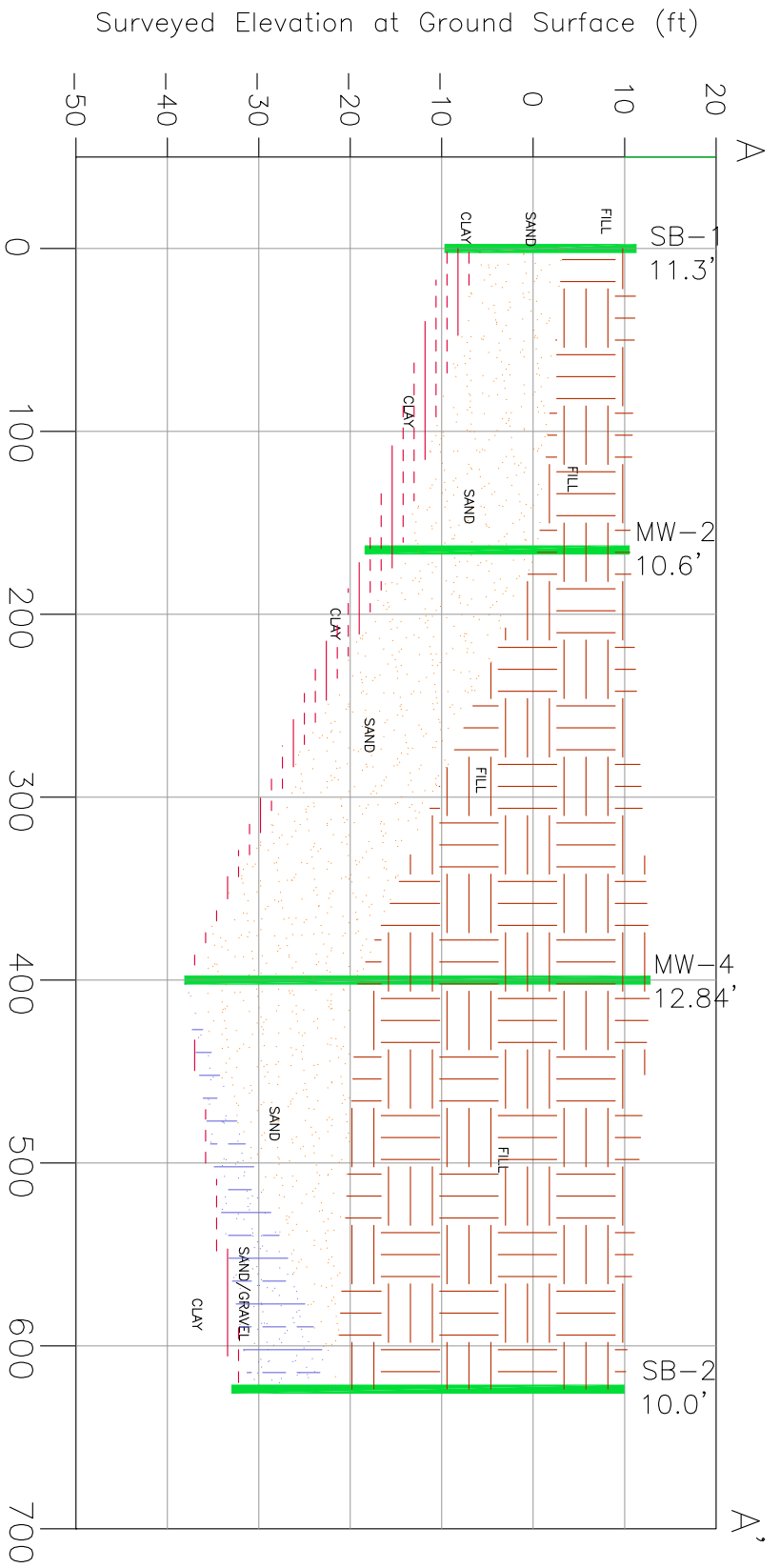
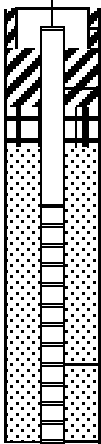


FIGURE 7
 CON EDISON
 HUNTS POINT MTS
 BRONX, NEW YORK
CROSS SECTIONS

APPENDIX A

SOIL BORING AND MONITORING WELL LOGS

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: MW-1 | | |
|--|--------------|-------------|----------|-----------|--|---|---|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Lavy Rig Type: Truck CME-75 | | | | | Sheet 1 of 1 | | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | Location Description: Along western driveway of the MTS property | | |
| GROUNDWATER OBSERVATIONS | | | | | See Site Plan | | |
| Water Level | DTW | DTW | | | Weather: Clouds and Rain, up to high 60s | | |
| | ~11 ft bgs | 9.9 ft bgs | | | Date/Time Start: 10/1/14 0950 | | |
| Date | 10/1/14 | 10/10/14 | | | Date/Time Finish: 10/1/14 1500 | | |
| Time | 1013 | 900 | | | | | |
| Meas. From | Split Spoon | TOC | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHMATIC | COMMENTS |
| +1 | | | | | |  | Locking J-plug on inner wall |
| 0 | | Vactron | | NA | 0-6" COBBLE and ORGANICS, some brown, fine to medium Sand, trace Silt | | Flush Mount Well |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, brown, fine to medium SAND, some Cobble, little Brick, trace Wood | | 0.0-0.5' Cover and Concrete |
| 2 | | Vactron | | 0.0 | | | Cement/Bentonite |
| 3 | | Vactron | | 0.0 | | | Grout (0' - 5') |
| 4 | | Vactron | | 0.0 | | | 2-inch ID PVC Riser (0.5-9') |
| 5 | | 33-10-7-7 | 50 | 0.0 | 0-6" CONCRETE; 6-12" Dry, dark brown, fine to medium SAND, little fine sub-angular Gravel, trace Concrete, trace Silt | | Bentonite (5-7') |
| 6 | | | | | | | #1 Sand (7-19') |
| 7 | MW-1 (7-9) | 5-7-7-4 | 75 | 0.0 | 0-6" Dry, dark brown, fine to medium SAND, some sub-angular fine to coarse Gravel, little fine sub-angular Gravel, trace Concrete, trace Silt; 6-18" Dry, dark brown, fine to medium SAND, trace Silt, trace Brick fragments | | 0.02-inch slot PVC Well Screen 2'-ID (9' - 19') |
| 8 | | | | | No Recovery | | PVC End Cap (19') |
| 9 | | 5-3-3-3 | 0 | NA | | | |
| 10 | | | | | | | |
| 11 | | 3-3-4-4 | 33 | 0.0 | Wet, dark grey/brown, fine to medium SAND, trace Silt, trace sub-round fine to medium Gravel | | |
| 12 | | | | | | | |
| 13 | | 1-2-3-6 | 33 | 0.0 | Wet, dark grey/brown, fine to medium SAND, trace Silt, trace sub-round fine to medium Gravel, trace Concrete | | |
| 14 | | | | | | | |
| 15 | | 3-5-6-24 | 25 | 0.0 | Wet, dark grey/brown, fine to medium SAND, some Gneiss Cobble, trace Silt, trace sub-round fine to medium Gravel, trace Concrete | | |
| 16 | | | | | | | |
| 17 | | 10-5-11-12 | 83 | 0.0 | 0-6" Wet, dark grey/brown, fine to medium SAND, some Gneiss Cobble, trace Silt, trace sub-round fine to medium Gravel, trace Concrete, slight organic odor; 6-14" Moist, grey, fine SAND, some Silt, trace fine sub-angular Gravel; 14-20" Moist, tan, fine SAND, some Silt, trace fine sub-angular Gravel | | |
| 18 | | | | | | | |
| 19 | | 8-18-17-20 | 50 | 0.0 | Moist, dark grey, fine to medium SAND, some Silt, little sub-round fine Gravel | | |
| 20 | | | | | | | |
| 21 | | 12-18-26-31 | 75 | 0.0 | Moist, light brown, fine to medium SAND, little Silt, trace Schist Cobble, trace fine to medium sub-round Gravel | | |
| 22 | | | | | | | |
| 23 | MW-1 (23-25) | 6-27-27-28 | 83 | 0.0 | Moist, light brown/grey, fine SAND, some Silt, little weathered Gneissic Schist | | |
| 24 | | | | | | | |
| 25 | | 50/0" | 0 | NA | No Recovery | | |
| End of Boring at 25 ft bgs | | | | | | | |
| SAMPLING METHOD | | | | | COMMENTS: | | |
| WH = WEIGHT OF HAMMER | | | | | 0-5 ft bgs was hand cleared | | |
| HC = HAND CLEARED | | | | | 5-25 ft bgs advanced utilizing hollow stem augers and split spoons | | |
| VC = VACUUM CLEARED | | | | | | | |
| WOR = WEIGHT OF RODS | | | | | | | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: MW-2 | | |
|--|----------------------------|-------------|----------|-----------|--|-----------|----------|
| Contractor: <u>Advanced Drilling Technology (ADT)</u> Driller: <u>Tom Sheerin, German Torres</u> Inspector: <u>Zohar Lavv</u> Rig Type: <u>Truck CME-75</u> | | | | | Sheet 1 of 1 Location Description: Along northeast property boundary | | |
| PROJECT NAME: <u>Con Edison /Hunts Point Gas Works - MTS Property</u> PROJECT NUMBER: <u>448994-01000</u> | | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | See Site Plan | | |
| Water Level | DTW | DTW | | | | | |
| | ~ 7 ft bgs | 7.28 | | | | | |
| Date | 10/6/14 | 10/10/14 | | | | | |
| Time | 1452 | 1220 | | | | | |
| Meas. From | Split Spoon | TOC | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
| +1 | | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 4"-5" Dry, dark brown, fine to medium SAND and COBBLE, little fine to coarse sub-angular Gravel, trace Concrete debris | | |
| 2 | | Vactron | | 0.0 | | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | MW-2 (5-7) | 7-6-3-4 | 75 | 0.0 | Moist, brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, little Concrete debris, trace Silt | | |
| 6 | | | | | | | |
| 7 | | 1-1-1-2 | 67 | 0.0 | Wet, brown/orange, fine to medium SAND, little fine to coarse sub-angular Gravel, trace Silt, trace weathered Gneiss | | |
| 8 | | | | | | | |
| 9 | | 1-2-2-4 | 67 | 0.1 | 0-13" Wet, brown/orange, fine to medium SAND, little fine to coarse sub-angular Gravel, trace Silt, trace weathered Gneiss; 13-16" BRICK | | |
| 10 | | | | | | | |
| 11 | | 2-6-3-1 | 33 | 0.0 | Wet, brown, fine to medium SAND, little fine sub-round Gravel, trace Silt | | |
| 12 | | | | | | | |
| 13 | | WH-1-20-31 | 50 | 0.0 | Wet, brown, fine to medium SAND, some weathered Gneissic Schist, little fine sub-round Gravel, trace Silt | | |
| 14 | | | | | | | |
| 15 | | 35-18-5-5 | 42 | 0.0 | 0-4" Wet, brown, fine to medium SAND, some weathered Gneissic Schist, little fine sub-round Gravel, trace Silt; 4-10" Wet, black, fine SAND and angular GRAVEL | | |
| 16 | | | | | | | |
| 17 | | 15-17-16-16 | 50 | 0.1 | 0-4" Wet, grey SILT, some fine Sand; 4-12" Wet, dark brown, fine to medium SAND, some Silt, little weathered Gneissic Schist | | |
| 18 | | | | | | | |
| 19 | | 6-9-10-13 | 50 | 0.1 | Moist, brown/grey fine to medium SAND and weathered GNEISSIC SCHIST | | |
| 20 | | | | | | | |
| 21 | | 9-17-15-11 | 42 | 0.1 | Moist, brown/grey fine to medium SAND and weathered GNEISSIC SCHIST | | |
| 22 | | | | | | | |
| 23 | | 9-7-4-6 | 67 | 0.1 | Moist, brown, medium SAND, little weathered Gneissic Schist | | |
| 24 | | | | | | | |
| 25 | MW-2 (25-27) | 6-6-1-1 | 58 | 0.2 | 0-8" Moist, brown, medium SAND, little weathered Gneissic Schist; 8-14" Moist, grey CLAY | | |
| 26 | | | | | | | |
| 27 | | WH-1-1-2 | 75 | 0.1 | Moist, grey CLAY | | |
| 28 | | | | | | | |
| 29 | End of Boring at 29 ft bgs | | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-29 ft bgs advanced utilizing hollow stem augers and split spoons | | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: MW-3 | | |
|--|----------------------------|-------------|----------|-----------|---|-----------|----------|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Lavv Rig Type: Truck CME-75 | | | | | Sheet 1 of 1 Location Description: Along southern edge of MTS property. | | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | | | |
| Water Level | DTW | DTW | | | Weather: Clear, up to low 70s | | |
| | ~ 9 ft bgs | 8.45 | | | Date/Time Start: 10/3/14 1130 | | |
| Date | 10/3/14 | 10-10-14 | | | Date/Time Finish: 10/6/14 1000 | | |
| Time | 1415 | 1415 | | | See Site Plan | | |
| Meas. From | Split Spoon | TOC | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
| +1 | | | | | | | |
| 0 | | Vactron | | NA | 0-12" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 12"-3" Dry, grey, fine to medium SAND and medium to coarse sub-angular GRAVEL | | |
| 2 | | Vactron | | 0.0 | 3-5" Moist, brown, fine to medium SAND, little Wood, little medium to coarse sub-angular Gravel, trace Concrete debris | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 28-16-18-18 | 67 | 0.0 | Dry, grey/brown, fine to medium SAND and CONCRETE debris, some coarse angular Gravel | | |
| 6 | | | | | | | |
| 7 | | 30-16-12-12 | 75 | 0.0 | 0-6" Dry, grey/brown, fine to medium SAND and CONCRETE debris, some coarse angular Gravel; 6-12" Moist, tan/brown medium to coarse SAND; 12-18" Moist, black, medium to coarse SAND | | |
| 8 | | | | | | | |
| 9 | | 14-10-11-6 | 50 | 0.0 | Dry, grey/brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, little Concrete, trace Brick | | |
| 10 | | | | | | | |
| 11 | MW-3 (11-13) | 5-4-4-3 | 33 | 0.1 | Dry, tan, medium SAND, some Concrete | | |
| 12 | | | | | | | |
| 13 | | 6-3-2-2 | 67 | 0.2 | 0-14" Wet, tan/orange, medium to coarse SAND, trace fine sub-round Gravel; 14-16" Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 14 | | | | | | | |
| 15 | | 2-1-1-2 | 58 | 0.0 | Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 16 | | | | | | | |
| 17 | | 1-2-2-3 | 83 | 0.1 | Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 18 | | | | | | | |
| 19 | | 7-4-2-2 | 75 | 0.1 | Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 20 | | | | | | | |
| 21 | | 3-3-2-2 | 67 | 0.2 | Wet, dark grey, medium to coarse SAND, trace fine sub-round Gravel | | |
| 22 | | | | | | | |
| 23 | | 10-5-4-4 | 75 | 0.1 | Wet, dark grey, medium to coarse SAND, trace fine sub-round Gravel | | |
| 24 | | | | | | | |
| 25 | | 14-9-3-4 | 75 | 0.1 | Wet, dark grey, medium to coarse SAND, trace fine sub-round Gravel | | |
| 26 | | | | | | | |
| 27 | | 4-3-2-2 | 83 | 0 | Wet, grey, medium to coarse SAND, trace fine sub-round Gravel, slight sulphur odor | | |
| 28 | | | | | | | |
| 29 | MW-3 (29-31) | WH-WH-2-1 | 33 | 0.1 | 0-6" Wet, grey, medium to coarse SAND, trace fine sub-round Gravel, slight sulphur odor; 6-8" Moist, grey CLAY, trace Shell | | |
| 30 | | | | | | | |
| 31 | | 3-1-1-1 | 50 | 0.1 | 0-10" Moist, grey CLAY; 10-12" Moist, grey CLAY, little Sand, trace Shell, trace fine sub-angular Gravel | | |
| 32 | | | | | | | |
| 33 | End of Boring at 33 ft bgs | | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-33 ft bgs advanced utilizing hollow stem augers and split spoons | | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: MW-4 | | |
|--|--------------------|--------------|----------|-----------|---|-----------|----------|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Lavv Rig Type: Truck CME-75 | | | | | Sheet 1 of 2 Location Description: Adjacent to southern edge of salt storage structure | | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | | | |
| Water Level | DTW ~ 15 ft bgs | DTW 10.21 | | | Weather: Cloudy, up to high 60s Date/Time Start: 10/2/14 0910 Date/Time Finish: 10/3/14 1120 | | |
| Date | 10/2/14 | 10-14-14 | | | See Site Plan | | |
| Time | 1034 | 0845 | | | | | |
| Meas. From | Split Spoon | TOC | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
| +1 | | | | | | | |
| 0 | | Vactron | | NA | 0-16" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 16"-4" Moist, grey, fine SAND and fine to coarse sub-angular GRAVEL, trace Silt | | |
| 2 | | Vactron | | 0.0 | | | |
| 3 | | Vactron | | 0.0 | 4-5" Wet, grey, fine SAND and fine to coarse sub-angular GRAVEL, little Cobble, trace Silt | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 4-11-21-21 | 83 | 0.3 | 0-6" Wet, dark brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace Brick; 6-20" Dry, dark brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace Brick | | |
| 6 | | | | | | | |
| 7 | | 5-9-16-18 | 67 | 0.4 | 0-10" Moist, dark brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace Brick; 10-12" BRICK; 12-16" Moist, brown, fine to medium SAND, little Silt, little fine sub-angular Gravel | | |
| 8 | | | | | | | |
| 9 | | 18-16-34-17 | 92 | 1.1 | 0-8" Moist, brown, fine to medium SAND, little Silt, little fine sub-angular Gravel, trace Brick; 8-22" Dry, brown, fine to medium SAND, little fine to coarse sub-angular Gravel, trace Silt | | |
| 10 | | | | | | | |
| 11 | MW-4 (11-13) | 14-10-5-4 | 75 | 1.0 | 0-14" Dry, orange/brown, fine to medium SAND, little fine to coarse sub-angular Gravel, trace Silt; 14-18" Dry, orange/brown, fine to medium SAND, little fine to coarse sub-angular Gravel, trace Silt, trace Brick, slight hydrocarbon odor | | |
| 12 | | | | | | | |
| 13 | | 15-9-6-4 | 58 | 1.0 | Moist, dark grey, fine to medium SAND, little Silt, little coarse sub-angular Gravel, little Cobble fragments | | |
| 14 | | | | | | | |
| 15 | | 2-3-2-5 | 33 | 1.1 | 0-6" Moist, dark grey, fine to medium SAND, little Silt; 6-8" Moist, dark grey, fine to medium SAND, little Silt, black staining | | |
| 16 | | | | | | | |
| 17 | | 7-7-8-7 | 100 | 0.5 | Moist, grey/brown, fine to medium SAND, some fine to coarse sub-angular to sub-round Gravel, little Silt, trace Wood, striated staining | | |
| 18 | | | | | | | |
| 19 | | 3-3-1-3 | 58 | 0.4 | Wet, dark grey, medium SAND, some medium to coarse angular Gravel, trace Silt | | |
| 20 | | | | | | | |
| 21 | | 2-4-9-5 | 67 | 0.2 | Wet, black, medium SAND, little fine to medium sub-angular Gravel | | |
| 22 | | | | | | | |
| 23 | | 2-1-2-2 | 42 | 0.1 | Wet, black, medium SAND, little fine to medium sub-angular Gravel, little Silt, trace Brick, trace Wood | | |
| 24 | | | | | | | |
| 25 | | 4-6-4-8 | 75 | 0.1 | 0-16" Wet, dark grey, fine to medium SAND, some Silt, trace Wood; 16-18" BRICK | | |
| 26 | | | | | | | |
| 27 | | 6-5-5-5 | 0 | NA | No Recovery | | |
| 28 | | | | | | | |
| 29 | | 6-8-7-8 | 67 | 0.1 | Wet, dark grey, fine to coarse SAND, trace Silt | | |
| 30 | | | | | | | |
| 31 | | 6-5-5-2 | 83 | 0.0 | 0-18" Wet, dark grey, fine to medium SAND; 18-20" BRICK | | |
| 32 | | | | | | | |

SAMPLING METHOD
 WH = WEIGHT OF HAMMER
 HC = HAND CLEARED
 VC = VACUUM CLEARED
 WOR = WEIGHT OF RODS

COMMENTS:
 0-5 ft bgs was hand cleared
 5-51 ft bgs advanced utilizing hollow stem augers and split spoons

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: MW-4 | | |
|--|----------------------------|------------|----------|-----------|---|---|--|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Lavy Rig Type: Truck CME-75 | | | | | Sheet 2 of 2 Location Description: Adjacent to southern edge of salt storage structure | | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | | | |
| GROUNDWATER OBSERVATIONS Water Level: DTW ~ 15 ft bgs DTW 10.21 Date: 10/2/14 10-14-14 Time: 1034 0845 Meas. From: Split Spoon TOC | | | | | Weather: Cloudy, up to high 60s Date/Time Start: 10/2/14 0910 Date/Time Finish: 10/3/14 1120 See Site Plan | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS | |
| 33 | | 1/12"-4-4 | 100 | 0 | 0-16" Wet, dark grey, fine to medium SAND, little Silt; 16-24" Moist, tan/grey fine to medium SAND, some Silt, little fine to coarse sub-angular Gravel | | |
| 34 | | | | | | | |
| 35 | | 6-8-14-18 | 83 | 0.4 | Moist, tan/grey fine to medium SAND, some Silt, little fine to coarse sub-angular Gravel, trace Mica | | |
| 36 | | | | | | | |
| 37 | | 7-17-29-32 | 100 | 0.1 | 0-6" Wet, grey, fine to medium SAND and fine to medium angular to round Gravel; 6-24" Moist, orange/brown, fine to medium SAND, little fine to medium sub-round Gravel, trace Silt | | |
| 38 | | | | | | | |
| 39 | | 4-18-21-23 | 92 | 0.2 | 0-12" Moist, grey, fine to medium SAND, little fine to medium sub-round Gravel, trace Silt; 12-22" Moist, orange/brown, fine to medium SAND, little fine to medium sub-round Gravel, trace Silt, trace weathered Schist | | |
| 40 | | | | | | | |
| 41 | | 5-7-50/1" | 42 | 0.3 | Moist, orange/brown fine to medium SAND, some weathered white/tan Schist | | |
| 42 | | | | | | | |
| 43 | | NA | NA | NA | NA | Augered through boulder/impedance from approximately 42-45 ft bgs | |
| 44 | | | | | | | |
| 45 | | WH-1-1-4 | 100 | 1.7 | Wet, light brown, medium SAND | | |
| 46 | | | | | | | |
| 47 | | 6-6-10-12 | 100 | 1.5 | Wet, light brown, medium SAND, trace fine to medium round Gravel | | |
| 48 | | | | | | | |
| 49 | MW-4 (49-51) | 5-9-12-14 | 100 | 1.5 | Wet, light brown, medium SAND, trace fine to medium round Gravel | | |
| 50 | | | | | | | |
| 51 | End of Boring at 51 ft bgs | | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-51 ft bgs advanced utilizing hollow stem augers and split spoons | | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: SB-1 | |
|--|----------------------------|------------|----------|-----------|---|----------|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Lavy Rig Type: Truck CME-75 | | | | | Sheet 1 of 1 Location Description: Adjacent to MTS property entrance | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | | |
| Water Level | DTW | DTW | | | Weather: Clear, up to low 70s Date/Time Start: 10/7/14 1330 Date/Time Finish: 10/7/14 1430 | |
| Date | 10/7/14 | | | | See Site Plan | |
| Time | 1355 | | | | | |
| Meas. From | Split Spoon | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
| +1 | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-3' Dry, dark brown fine to medium SAND, some fine to coarse sub-angular Gravel, little Brick | |
| 2 | | Vactron | | 0.0 | 3-5' Dry, dark brown fine to medium SAND and CONCRETE debris, some fine to coarse sub-angular Gravel, little Brick | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 2-4-4-3 | 75 | 0.1 | Moist, dark brown, fine to coarse SAND, some Concrete debris, little Brick, little fine to coarse sub-angular Gravel, trace Silt | |
| 6 | | | | | | |
| 7 | SB-1 (7-9) | 3-2-2-1 | 67 | 0.0 | Dry, orange/brown, medium SAND, trace Brick | |
| 8 | | | | | | |
| 9 | | 3-2-1-2 | 58 | 0.1 | Wet, dark grey, fine to medium SAND and SILT, little fine to medium sub-angular Gravel | |
| 10 | | | | | | |
| 11 | | 1-1-WH-1 | 100 | 0.2 | 0-18" Wet, dark grey, fine to medium SAND and SILT; 18-24" Wet, dark grey, fine to medium SAND, some Silt, trace fine sub-angular Gravel, trace Shell | |
| 12 | | | | | | |
| 13 | | WH/12"-1-1 | 67 | 0.1 | Wet, dark grey, fine SAND, little Silt, little fine to medium angular to sub-angular Gravel | |
| 14 | | | | | | |
| 15 | | WH/18"-1 | 67 | 0.2 | Wet, dark grey, fine SAND, little Silt, little fine to medium angular to sub-angular Gravel | |
| 16 | | | | | | |
| 17 | SB-1 (17-19) | WH-2-1-2 | 75 | 0.2 | 0-14" Wet, dark grey, fine SAND, little Silt, little fine to medium angular to sub-angular Gravel; 14-18" Moist, grey CLAY | |
| 18 | | | | | | |
| 19 | | 1-1-1-1 | 75 | 0.3 | Moist, grey CLAY | |
| 20 | | | | | | |
| 21 | End of Boring at 21 ft bgs | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-21 ft bgs advanced utilizing hollow stem augers and split spoons | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: SB-2 | |
|---|-------------|-------------|----------|-----------|--|----------|
| Contractor: Advanced Drilling Technology (ADT) Driller: Tom Sheerin, German Torres Inspector: Zohar Laviv Rig Type: Truck CME-75 | | | | | Sheet 1 of 2 Location Description: Adjacent to eastern edge of MTS property | |
| PROJECT NAME: Con Edison /Hunts Point Gas Works - MTS Property PROJECT NUMBER: 448994-01000 | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | | |
| Water Level | DTW | DTW | | | Weather: Partly cloudy, up to high 60s Date/Time Start: 10/8/14 1030 Date/Time Finish: 10/9/14 0850 | |
| Date | 10/8/14 | | | | See Site Plan | |
| Time | 1130 | | | | | |
| Meas. From | Split Spoon | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
| +1 | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-2' Dry, dark grey, fine to medium SAND and WOOD, little Cobble, trace Silt, trace Brick | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | 2-3' Moist, tan, medium to coarse SAND | |
| 4 | | Vactron | | 0.0 | 3-5' Moist, dark grey/brown fine to medium SAND, some fine to coarse sub-angular Gravel, little Brick, little Silt | |
| 5 | | 9-28-17-20 | 67 | 0.1 | Moist, dark brown, fine to medium SAND, some Concrete, little Brick, little fine to coarse sub-angular to round Gravel | |
| 6 | | | | | | |
| 7 | | 12-12-20-20 | 58 | 0.2 | Moist, brown/olive fine SAND, some Concrete, little Brick, little fine to coarse sub-angular to round Gravel | |
| 8 | | | | | | |
| 9 | SB-2 (9-11) | 4-7-2-3 | 67 | 0.1 | Moist, brown, fine to medium SAND, little Silt, trace Brick, trace medium sub-angular Gravel | |
| 10 | | | | | | |
| 11 | | 4-6-5-6 | 58 | 0.1 | Wet, brown, fine to medium SAND, some Silt | |
| 12 | | | | | | |
| 13 | | 1-1-2-14 | 0 | NA | No Recovery | |
| 14 | | | | | | |
| 15 | | 5-6-1-2 | 75 | 0.4 | Wet, brown, fine to medium SAND, some Silt, little weathered Gneissic Schist | |
| 16 | | | | | | |
| 17 | | 2-2-3-2 | 83 | 0.1 | Wet, brown, fine to medium SAND, some Silt | |
| 18 | | | | | | |
| 19 | | WH-2-8-7 | 0 | NA | No Recovery | |
| 20 | | | | | | |
| 21 | | 8-6-5-5 | 42 | 0.0 | Wet, brown, fine to medium SAND, some Silt, little weathered Gneissic Schist | |
| 22 | | | | | | |
| 23 | | 4-2-7-6 | 42 | 0.1 | Wet, brown/grey, fine to medium SAND, little Silt, little fine to medium angular to round Gravel, trace weathered Schist | |
| 24 | | | | | | |
| 25 | | 5-2-4-4 | 33 | 0.2 | Wet, brown/grey, fine to medium SAND, little Silt, little fine to medium angular to round Gravel, trace weathered Schist | |
| 26 | | | | | | |
| 27 | | 4-6-8-8 | 58 | 0.3 | 0-12" Wet, brown/grey, fine to medium SAND, little Silt, little fine to medium angular to round Gravel, trace weathered Schist; 12-14" Wet, brown/grey, fine to medium SAND, little fine to medium angular to round Gravel, trace weathered Schist | |
| 28 | | | | | | |
| 29 | | WOR-2-6-6 | 42 | 0.3 | 0-7" Wet, black, fine SAND and SILT, slight organic odor; 7-10" Wet, black, fine SAND and fine angular GRAVEL, trace leather/fibrous material | |
| 30 | | | | | | |
| 31 | | 11-14-14-10 | 75 | 0.1 | 0-6" Wet, black, fine SAND and fine angular GRAVEL, trace leather/fibrous material; 6-18" Wet, grey/black, medium to coarse SAND and fine to coarse angular to sub-round GRAVEL, some Brick | |
| 32 | | | | | | |
| 33 | | 9-7-5-5 | 92 | 0 | Wet, grey/black, medium to coarse SAND and fine to coarse angular to sub-round GRAVEL | |
| 34 | | | | | | |
| 35 | | 20-31-25-21 | 83 | 0.0 | Wet, grey, medium to coarse SAND and fine to coarse angular to sub-round GRAVEL | |
| 36 | | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-43 ft bgs advanced utilizing hollow stem augers and split spoons | |

Schist Cobble in tip of cutting shoe

| | | | | | PARSONS DRILLING RECORD | | BORING/WELL ID: SB-2 | |
|--|--------------------|------------|----------|-----------|--|--|---|--|
| Contractor: <u>Advanced Drilling Technology (ADT)</u> | | | | | | | Sheet 2 of 2 | |
| Driller: <u>Tom Sheerin, German Torres</u> | | | | | PROJECT NAME: <u>Con Edison /Hunts Point Gas Works - MTS Property</u> | | Location Description: | |
| Inspector: <u>Zohar Lavv</u> | | | | | PROJECT NUMBER: <u>448994-01000</u> | | <u>Adjacent to eastern edge of MTS property</u> | |
| Rig Type: <u>Truck CME-75</u> | | | | | | | | |
| GROUNDWATER OBSERVATIONS | | | | | Weather: <u>Partly cloudy, up to high 60s</u> | | See Site Plan | |
| Water Level | DTW | DTW | | | Date/Time Start: <u>10/8/14 1030</u> | | | |
| Date | <u>10/8/14</u> | | | | Date/Time Finish: <u>10/9/14 0850</u> | | | |
| Time | <u>1130</u> | | | | | | | |
| Meas. From | <u>Split Spoon</u> | | | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS | |
| 37 | | 14-12-11-9 | 83 | 0.1 | Wet, black, medium to coarse SAND and fine to coarse angular to sub-round GRAVEL | | | |
| 38 | | | | | | | | |
| 39 | SB-2 (39-41) | 3-2-4-3 | 75 | 0.2 | 0-8" Wet, black, medium to coarse SAND and fine to coarse angular to sub-round GRAVEL, trace Silt; 8-18" Moist, black/dark grey fine SAND and CLAY, sulphur/methane odor | | | |
| 40 | | | | | | | | |
| 41 | | 3-3-3-4 | 67 | 0.2 | Moist, grey CLAY, little Shell | | | |
| 42 | | | | | | | | |
| End of Boring at 43 ft bgs | | | | | | | | |
| SAMPLING METHOD | | | | | COMMENTS: | | | |
| WH = WEIGHT OF HAMMER | | | | | 0-5 ft bgs was hand cleared | | | |
| HC = HAND CLEARED | | | | | 5-43 ft bgs advanced utilizing hollow stem augers and split spoons | | | |
| VC = VACUUM CLEARED | | | | | | | | |
| WOR = WEIGHT OF RODS | | | | | | | | |

| PARSONS DRILLING RECORD | | | | | BORING/WELL ID: SB-3 | | |
|--|----------------------------|-------------|----------|-----------|---|----------|---|
| | | | | | Sheet 1 of 2 | | |
| Contractor: <u>Advanced Drilling Technology (ADT)</u> Driller: <u>Tom Sheerin, German Torres</u> Inspector: <u>Zohar Lavy</u> Rig Type: <u>Truck CME-75</u> | | | | | PROJECT NAME: <u>Con Edison /Hunts Point Gas Works - MTS Property</u> PROJECT NUMBER: <u>448994-01000</u> | | Location Description: <u>Southwest corner of MTS property</u> |
| GROUNDWATER OBSERVATIONS | | | | | Weather: <u>Clear, up to low 70s, Breezy</u> Date/Time Start: <u>10/9/14 1030</u> Date/Time Finish: <u>10/9/14 1500</u> | | |
| Water Level | DTW | DTW | | | | | |
| Date | 10/9/14 | | | | | | |
| Time | 1130 | | | | | | |
| Meas. From | Split Spoon | | | | See Site Plan | | |
| | | | | | | | |
| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS | |
| +1 | | | | | | | |
| 0 | | Vactron | | NA | 0-6" Dry, brown, fine to medium SAND, some fine to coarse sub-angular to round Gravel, little Organics | | |
| 1 | | Vactron | | 0.0 | | | |
| 2 | | Vactron | | 0.0 | 6'-5" Dry, brown, fine to medium SAND and COBBLE, some fine to coarse sub-angular to round Gravel, little Organics | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 8-10-9-6 | 42 | 0.1 | Dry, black, fine to coarse SAND, little fine to coarse angular to sub-angular Gravel, trace Glass | | |
| 6 | | | | | | | |
| 7 | | 15-15-14-11 | 33 | 0.0 | COBBLE | | |
| 8 | | | | | | | |
| 9 | | 15-9-18-24 | 75 | 0.0 | Dry, black, fine to medium SAND, some fine to coarse angular to sub-angular Gravel, little Brick fragments, trace Concrete | | |
| 10 | | | | | | | |
| 11 | | 34-29-26-20 | 83 | 0.1 | 0-16" Dry, brown, fine to medium SAND, little fine to medium angular Gravel, trace Cobble, trace Silt; 16-20" Dry, tan, medium to coarse SAND | | |
| 12 | | | | | | | |
| 13 | | 15-21-15-15 | 75 | 0.1 | 0-10" Dry, brown, fine to medium SAND, little fine to medium angular Gravel, trace Cobble, trace Silt; 10-18" Dry, tan, medium to coarse SAND | | |
| 14 | | | | | | | |
| 15 | SB-3 (15-17) | 3-6-7-6 | 75 | 0.2 | Moist, tan/brown, medium to coarse SAND, trace fine sub-round Gravel | | |
| 16 | | | | | | | |
| 17 | | 5-4-4-4 | 92 | 0.2 | 0-10" Wet, tan/brown, medium to coarse SAND, trace fine sub-round Gravel; 10-22" Wet, black, medium to coarse SAND, little Shell, trace fine sub-round Gravel | | |
| 18 | | | | | | | |
| 19 | | 4-1/12"-6 | 50 | 0.1 | Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 20 | | | | | | | |
| 21 | | 2-5-5-7 | 50 | 0.0 | Wet, black, medium to coarse SAND, trace fine sub-round Gravel | | |
| 22 | | | | | | | |
| 23 | | 22-10-18-17 | 75 | 0.0 | Wet, grey, medium to coarse SAND, trace fine sub-round Gravel | | |
| 24 | | | | | | | |
| 25 | | 38-30-17-10 | 100 | 0.0 | 0-22" Wet, black, medium to coarse SAND, trace fine sub-round Gravel, trace Brick; 22-24" Wet, black, fine to medium SAND | | |
| 26 | | | | | | | |
| 27 | | 7-8-8-8 | 50 | 0 | 0-4" Wet, black, fine to medium SAND; 4-12" Moist, brown/olive, fine to medium SAND, some Silt, trace coarse angular Gravel | | |
| 28 | | | | | | | |
| 29 | | 44-42-17-20 | 33 | 0 | Moist, brown/olive, fine to medium SAND, some Silt | | |
| 30 | | | | | | | |
| 31 | | 10-49-17-15 | 50 | 0 | Moist, brown, fine SAND, little fine sub-round Gravel, little Silt, trace weathered Gneissic Schist | | |
| 32 | | | | | | | |
| 33 | | 50/2" | 0 | NA | No Recovery | | |
| 34 | | | | | | | |
| 35 | SB-3 (35-37) | 13-18-22-25 | 75 | 0.0 | Moist, brown, fine SAND, little fine sub-round Gravel, little Silt, trace weathered Gneissic Schist | | |
| 36 | | | | | | | |
| 37 | | 28-35-50/0" | 0 | NA | No Recovery | | |
| 38 | End of Boring at 38 ft bgs | | | | | | |
| SAMPLING METHOD WH = WEIGHT OF HAMMER HC = HAND CLEARED VC = VACUUM CLEARED WOR = WEIGHT OF RODS | | | | | COMMENTS: 0-5 ft bgs was hand cleared 5-38 ft bgs advanced utilizing hollow stem augers and split spoons | | |

APPENDIX B

GROUNDWATER SAMPLING LOGS

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 30, 2014
Sampling Date: October 30, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-1, MW-11 (duplicate), MW-1 MS, MW-1 MSD
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 9.95
 Depth to Well Bottom (TOC): 18.85
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 8.90 x 0.16 = 1.42 Gallons
 3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
 4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Clear

FIELD TESTS

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Time | 1025 | 1030 | 1035 | 1040 | 1045 | 1050 | 1055 | 1100 |
| Depth To Water (TOC) (ft) | 10.05 | 10.06 | 10.05 | 10.05 | 10.05 | 10.05 | 10.05 | 10.05 |
| Depth To Pump (TOC) (ft) | 16.85 | 16.85 | 16.85 | 16.85 | 16.85 | 16.85 | 16.85 | 16.85 |
| Flow Rate (ml/min) | ~350 | ~350 | ~300 | ~250 | ~250 | ~250 | ~250 | ~250 |
| Volume of Water Purged | ~0.5 | ~1.0 | ~1.5 | ~1.75 | ~2.0 | ~2.5 | ~3.0 | ~3.25 |
| pH (s.u.) | 7.52 | 7.60 | 7.57 | 7.53 | 7.54 | 7.54 | 7.56 | 7.56 |
| Conductivity (mS/cm) | 3.6 | 3.41 | 3.01 | 2.47 | 2.45 | 2.41 | 2.46 | 2.48 |
| Turbidity (NTUs) | 142 | 165 | 125 | 111 | 62.7 | 11.9 | 0 | 0 |
| Dissolved Oxygen (mg/L) | 7.49 | 3.39 | 2.87 | 2.09 | 1.93 | 1.76 | 1.72 | 1.7 |
| Temperature (Degrees C) | 15.87 | 15.96 | 16.05 | 16.17 | 16.57 | 16.26 | 16.18 | 16.23 |
| ORP (mV) | -52 | -81 | -105 | -122 | -130 | -134 | -137 | -139 |
| Salinity (%) | 1.9 | 1.7 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 |
| TDS (g/L) | 2.30 | 2.13 | 1.92 | 1.56 | 1.55 | 1.55 | 1.55 | 1.55 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs

 Shipped Via: Chemtech
 Laboratory: _____
 Other Notes: Sample collected at 1100, ~ 3.25 Gallons purged

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 30, 2014
Sampling Date: October 30, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-2
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 7.65
 Depth to Well Bottom (TOC): 14.40
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 6.75 x 0.16 = 1.08 Gallons
3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Very Turbid

FIELD TESTS

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Time | 1410 | 1415 | 1420 | 1425 | 1430 | 1435 | 1440 |
| Depth To Water (TOC) (ft) | 8.21 | 8.40 | 8.52 | 8.61 | 8.65 | 8.73 | 8.81 |
| Depth To Pump (TOC) (ft) | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 |
| Flow Rate (ml/min) | ~200 | ~200 | ~100 | ~150 | ~100 | ~150 | ~100 |
| Volume of Water Purged | ~0.25 | ~0.5 | ~0.75 | ~0.75 | ~1.0 | ~1.0 | ~1.25 |
| pH (s.u.) | 7.74 | 7.69 | 7.65 | 7.64 | 7.63 | 7.62 | 7.63 |
| Conductivity (mS/cm) | 17.5 | 17.2 | 17.1 | 17.0 | 17.0 | 16.9 | 16.8 |
| Turbidity (NTUs) | Error | Error | Error | Error | Error | Error | Error |
| Dissolved Oxygen (mg/L) | 5.21 | 3.07 | 3.0 | 2.91 | 2.83 | 2.75 | 2.68 |
| Temperature (Degrees C) | 17.81 | 17.93 | 18.03 | 17.85 | 18.01 | 18.15 | 18.24 |
| ORP (mV) | -25 | -43 | -36 | -32 | -28 | -24 | -23 |
| Salinity (%) | 10.3 | 10.0 | 10.0 | 9.9 | 9.9 | 9.9 | 9.8 |
| TDS (g/L) | 10.9 | 10.6 | 10.6 | 10.5 | 10.5 | 10.4 | 10.3 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs, Dissolved Metals
 Shipped Via: Chemtech
 Laboratory:
 Other Notes: Sample collected at 1510, ~ 2 Gallons purged

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 30, 2014
Sampling Date: October 30, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-2
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 7.65
 Depth to Well Bottom (TOC): 14.40
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 6.75 x 0.16 = 1.08 Gallons
3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Very Turbid

FIELD TESTS

| | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---------------------------|-------|-------|-------|-------|--------|
| Time | 1450 | 1455 | 1500 | 1505 | 1510 |
| Depth To Water (TOC) (ft) | 8.82 | 8.83 | 8.82 | 8.83 | 8.83 |
| Depth To Pump (TOC) (ft) | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 |
| Flow Rate (ml/min) | ~100 | ~150 | ~150 | ~100 | ~150 |
| Volume of Water Purged | ~1.5 | ~1.5 | ~1.75 | ~1.75 | ~2.0 |
| pH (s.u.) | 7.63 | 7.63 | 7.64 | 7.63 | 7.63 |
| Conductivity (mS/cm) | 16.7 | 16.8 | 16.7 | 16.7 | 16.8 |
| Turbidity (NTUs) | Error | Error | Error | Error | Error |
| Dissolved Oxygen (mg/L) | 2.61 | 2.57 | 2.55 | 2.53 | 2.51 |
| Temperature (Degrees C) | 18.15 | 18.03 | 18.12 | 18.09 | 18.13 |
| ORP (mV) | -22 | -21 | -21 | -20 | -21 |
| Salinity (%) | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 |
| TDS (g/L) | 10.3 | 10.3 | 10.2 | 10.2 | 10.2 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs, Dissolved Metals
 Shipped Via: Chemtech
 Laboratory:
 Other Notes: Sample collected at 1510, ~ 2 Gallons purged

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 31, 2014
Sampling Date: October 31, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-3
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 10.80
 Depth to Well Bottom (TOC): 21.40
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 10.60 x 0.16 = 1.70 Gallons
3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Clear

FIELD TESTS

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| Time | 0930 | 0935 | 0940 | 0945 | 0950 | 0955 | 1000 | 1005 |
| Depth To Water (TOC) (ft) | 11.05 | 11.07 | 11.11 | 11.20 | 11.25 | 11.31 | 11.35 | 11.37 |
| Depth To Pump (TOC) (ft) | 19.40 | 19.40 | 19.40 | 19.40 | 19.40 | 19.40 | 19.40 | 19.40 |
| Flow Rate (ml/min) | ~400 | ~400 | ~300 | ~300 | ~250 | ~200 | ~250 | ~250 |
| Volume of Water Purged | ~0.5 | ~1.25 | ~2.0 | ~2.5 | ~2.75 | ~3.25 | ~3.5 | ~3.75 |
| pH (s.u.) | 7.74 | 7.70 | 7.69 | 7.68 | 7.67 | 7.67 | 7.67 | 7.67 |
| Conductivity (mS/cm) | 30.4 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 | 30.2 |
| Turbidity (NTUs) | 84.4 | 36.1 | 21.6 | 10.5 | 4.6 | 0 | 0 | 0 |
| Dissolved Oxygen (mg/L) | 19.05 | 12.53 | 10.27 | 9.62 | 8.53 | 8.47 | 8.42 | 8.36 |
| Temperature (Degrees C) | 15.40 | 15.80 | 15.86 | 15.86 | 15.83 | 15.79 | 15.81 | 15.78 |
| ORP (mV) | 67 | 0.0 | -21 | -13 | -10 | -9 | -9 | -8 |
| Salinity (%) | 18.7 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.5 |
| TDS (g/L) | 18.5 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs
 Shipped Via: Chemtech
 Laboratory:
 Other Notes: Sample collected at 1005, ~ 3.75 Gallons purged

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 30, 2014
Sampling Date: October 30, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-4
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 10.12
 Depth to Well Bottom (TOC): 19.80
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 9.68 x 0.16 = 1.55 Gallons
3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Clear

FIELD TESTS

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Time | 1225 | 1230 | 1235 | 1240 | 1245 | 1250 | 1255 |
| Depth To Water (TOC) (ft) | 10.51 | 10.80 | 10.86 | 10.92 | 10.95 | 10.98 | 10.99 |
| Depth To Pump (TOC) (ft) | 17.80 | 17.80 | 17.80 | 17.80 | 17.80 | 17.80 | 17.80 |
| Flow Rate (ml/min) | ~250 | ~300 | ~250 | ~300 | ~250 | ~250 | ~250 |
| Volume of Water Purged | ~0.25 | ~0.5 | ~0.75 | ~1.25 | ~1.75 | ~2.25 | ~2.5 |
| pH (s.u.) | 7.22 | 7.28 | 7.38 | 7.41 | 7.45 | 7.47 | 7.48 |
| Conductivity (mS/cm) | 74.8 | 78.6 | 83.1 | 86.5 | 89.5 | 91.4 | 91.6 |
| Turbidity (NTUs) | Error | Error | 471 | 196 | 135 | 141 | 112 |
| Dissolved Oxygen (mg/L) | 1.82 | 1.43 | 1.15 | 1.08 | 0.97 | 0.94 | 0.93 |
| Temperature (Degrees C) | 18.61 | 18.35 | 18.09 | 18.11 | 18.11 | 18.01 | 17.62 |
| ORP (mV) | -99 | -107 | -119 | -122 | -128 | -129 | -128 |
| Salinity (%) | 51.8 | 54.3 | 58.2 | 60.9 | 63.2 | 64.7 | 65.2 |
| TDS (g/L) | 45.3 | 47.1 | 50.1 | 52.0 | 53.8 | 54.8 | 55.3 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs
 Shipped Via: Chemtech
 Laboratory:
 Other Notes: Sample collected at 1320, ~ 3.75 Gallons purged. Well is immediately adjacent to NYDOS salt storage

PARSONS GROUNDWATER SAMPLING RECORD

SITE NAME: Con Edison (Hunts Point MTS)
PROJECT NUMBER: 448994-01000
Purge Date: October 30, 2014
Sampling Date: October 30, 2014
Samplers: Zohar Lavy of Parsons / Somerset, NJ
SAMPLE ID: MW-4
Sampling Method: Low Flow Purge Monsoon Pump

WELL PURGING

Static Water Level (TOC): 10.12
 Depth to Well Bottom (TOC): 19.80
CALCULATIONS: Ft. of Water in Well _____ X (GAL / FT) = _____ Gallons
1-inch Casing: Ft. of Water in Well _____ x 0.041 = _____ Gallons
2-inch Casing: Ft. of Water in Well 9.68 x 0.16 = 1.55 Gallons
3-inch Casing: Ft. of Water in Well _____ x 0.32 = _____ Gallons
4-inch Casing: Ft. of Water in Well _____ x 0.64 = _____ Gallons
 Method: Low Flow Purge Monsoon Pump

SAMPLE DESCRIPTION

Odor : No Odor
 Other : Clear

FIELD TESTS

| | PURGE | PURGE | PURGE | SAMPLE |
|---------------------------|-------|-------|-------|--------|
| Time | 1305 | 1310 | 1315 | 1320 |
| Depth To Water (TOC) (ft) | 10.95 | 10.95 | 10.95 | 10.95 |
| Depth To Pump (TOC) (ft) | 17.80 | 17.80 | 17.80 | 17.80 |
| Flow Rate (ml/min) | ~250 | ~250 | ~250 | ~250 |
| Volume of Water Purged | ~3.0 | ~3.25 | ~3.5 | ~3.75 |
| pH (s.u.) | 7.53 | 7.55 | 7.55 | 7.56 |
| Conductivity (mS/cm) | 93.7 | 94.5 | 95.2 | 95.6 |
| Turbidity (NTUs) | 62.5 | 53.2 | 49.6 | 48.1 |
| Dissolved Oxygen (mg/L) | 0.92 | 0.89 | 0.87 | 0.85 |
| Temperature (Degrees C) | 17.70 | 17.82 | 17.73 | 17.69 |
| ORP (mV) | -133 | -134 | -134 | -136 |
| Salinity (%) | 67.7 | 67.9 | 68.4 | 69.1 |
| TDS (g/L) | 57.1 | 57.5 | 58.6 | 58.8 |

SAMPLE ANALYSIS / LABORATORY

Analyze For: TCL VOCs, SVOCs, TAL Metals, CN, PCBs
 Shipped Via: Chemtech
 Laboratory:
 Other Notes: Sample collected at 1320 ~ 3.75 Gallons purged. Well is immediately adjacent to NYDOS salt storage

APPENDIX C

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

HUNTS POINT

Prepared For:



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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

- ATTACHMENT A-1 VALIDATED LABORATORY DATA FOR
GROUNDWATER SAMPLES**
- ATTACHMENT A-2 VALIDATED LABORATORY DATA FOR
SOIL SAMPLES**

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected from the Consolidated Edison Hunts Point site on October 30, 2014 through October 31, 2014. Soil samples were collected on October 1, 2014 through October 9, 2014. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs).

The analytical laboratory for this project was Chemtech. This laboratory is certified to perform project analyses by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 28 days for the project samples.

The data packages received from Chemtech were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by media in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Chemtech within one to eight days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 LABORATORY ANALYTICAL METHODS

Both the groundwater samples and the soil samples that were collected from the site were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, cyanide, and polychlorinated biphenyls (PCBs) using appropriate SW846 methods. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.4. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method by media in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" The analyte was analyzed for but was not detected at the value given.

"UJ" The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

"J" The result is an estimated quantity.

"J+" The result is an estimated quantity, but the result may be biased high.

"J-" The result is an estimated quantity, but the result may be biased low.

"R" The data are unusable.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. The reported groundwater VOC analytical data did not require qualification resulting from data validation. The reported groundwater VOC analytical results were 100% complete (i.e., usable) for the groundwater data. PARCC requirements were met.

Soil samples were analyzed for VOCs using the USEPA SW-846 8260C analytical method. Certain reported results for soil VOC samples were qualified as estimated based upon surrogate recoveries, matrix spike recoveries, instrument calibrations, and internal standard responses. The reported VOC analytical results were 98.6% complete (i.e., usable) for the soil data. PARCC requirements were met overall.

1.3.2 Semivolatile Organic Analysis

Groundwater samples were analyzed for SVOCs using the USEPA SW-846 8270D analytical method. Certain reported results for the groundwater SVOC samples were qualified as estimated based upon surrogate recoveries, instrument calibrations, and field duplicate precision. The reported SVOC analytical results were 100% complete (i.e., usable) for the groundwater data. PARCC requirements were met.

Soil samples were analyzed for SVOCs using the USEPA SW-846 8270D analytical method. Certain reported results for the soil SVOC samples were qualified as estimated based upon instrument calibrations and field duplicate precision. The reported SVOC analytical results were 100% complete (i.e., usable) for the soil data. PARCC requirements were met.

1.3.3 Polychlorinated Biphenyls (PCBs) Analysis

Groundwater samples were analyzed for PCBs using the USEPA SW-846 8082A analytical method. The reported results for the groundwater PCB samples did not require qualification resulting from data validation. The reported PCB analytical results were 100% complete (i.e., usable) for the groundwater data. PARCC requirements were met.

Soil samples were analyzed for PCBs using the USEPA SW-846 8082A analytical method. The reported results for the soil PCB samples did not require qualification resulting from data validation. The reported PCB analytical results were 100% complete (i.e., usable) for the soil data. PARCC requirements were met.

1.3.4 Inorganic Analysis

Groundwater samples were analyzed for metals and cyanide using the USEPA SW-846 6010C/7470A/9012B analytical methods. Certain reported results for the groundwater inorganic samples were qualified as estimated based upon matrix spike recoveries and field duplicate precision. The reported inorganic analytical results were 100% complete (i.e., usable) for the groundwater data. PARCC requirements were met.

Soil samples were analyzed for metals and cyanide using the USEPA SW-846 6010C/7471B/9012B analytical methods. Certain reported results for the soil inorganic samples were qualified as estimated based upon matrix spike recoveries and serial dilutions. The reported inorganic analytical results were 100% complete (i.e., usable) for the soil data. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 GROUNDWATER

Data review has been completed for data packages generated by Chemtech containing analytical results from groundwater samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery group (SDG) F4556.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile groundwater data presented by Chemtech were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

2.1.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation

- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the initial and continuing calibrations, surrogate recoveries, MS/MSD precision and accuracy, and field duplicate precision as discussed below.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of acenaphthene (20.26%RSD), acenaphthylene (21.58%RSD), and fluorene (28.27%RSD) in the initial calibration associated with samples MW-4, MW-11, and MW-12. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within $\pm 20\%$ with the exception of benzo (k)fluoranthene (25.3%D) in the continuing calibration associated with sample MW-1; and chrysene (20.8%D) in the continuing calibration associated with samples MW-3, FB103114, and FB100914. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Surrogate Recoveries

All surrogate recoveries were within lab established control limits except nitrobenzene-d5 (28%; QC limit 36-131%R) and phenol-d6 (8%; QC limit 10-130%R) in FB100914. Therefore, the results for compounds associated with these surrogates were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent accuracy; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the MS/MSD accuracy results for 2,3,4,6-tetrachlorophenol and 1,2,4,5-tetrachlorobenzene and the MS/MSD precision results for 3,3'-dichlorobenzidine, 2,4-dinitrophenol, pentachlorophenol, and 2,3,4,6-tetrachlorophenol during

the spiked analyses of sample MW-1. Validation qualification of the unspiked sample was not required.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the 2-methylnaphthalene precision (89%RPD) associated with sample MW-1 and its field duplicate MW-11. Therefore, the results for this compound were considered estimated and qualified “J” for MW-1 and MW-11.

Usability

All semivolatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The groundwater semivolatile data presented by Chemtech were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A.

2.1.3 Polychlorinated Biphenyls (PCBs)

The following items were reviewed for compliancy in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and equipment blank contamination
- GC instrument performance
- Initial and continuing calibrations
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All PCB sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PCB groundwater data presented by Chemtech were 100% complete (i.e., usable). The validated PCB laboratory data are tabulated and presented in Attachment A.

2.1.4 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Initial and continuing calibration verifications
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with exception of matrix spike recoveries, blank contamination, and field duplicate precision.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within the 75-125%R QC limit with the exception of the low matrix spike recoveries for barium (61%R, 59%R), iron (66%R, 71%R), selenium (68.9%R), and silver (74.9%R) associated with MW-1. Therefore, results for these analytes were considered estimated, possibly biased low, with positive results qualified “J-” and nondetected results qualified “UJ” for MW-1.

Blank Contamination

The field QC equipment blank FB100914 associated with samples collected on 10/9/14 contained aluminum and iron below the reporting limit at concentrations of 12.8 and 13 µg/L, respectively; the field QC equipment blank FB103114 associated with samples collected on 10/31/14 contained aluminum, calcium, iron, lead, and sodium at concentrations of 30.2, 127, 57.3, 1.81, and 75.6 µg/L, respectively. Validation qualification of the associated sample results was not required.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for chromium (81%RPD) associated with sample MW-1 and its field duplicate MW-11. Therefore, the chromium results for these samples were considered estimated and qualified “J”.

Usability

All inorganics sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The inorganics

groundwater data presented by Chemtech were 100% complete (i.e., usable). The validated inorganics laboratory data are tabulated and presented in Attachment A.

2.2 SOILS

Data review has been completed for data packages generated by Chemtech containing analytical results from soil samples collected from the site. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery group (SDG) F4241.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A.

2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the surrogate recoveries, internal standards, MS/MSD precision and accuracy, LCS recoveries, and continuing calibrations as described below.

Surrogate Recovery

All surrogate recoveries were within QC criteria for all samples with the exception of toluene-d8 (QC limit 67-123%R) in samples MW-2(5-7) (127%R) and SB-3(15-17) (129%R). Therefore, positive results associated with this surrogate were considered estimated, possibly biased high, and qualified “J+” for the affected samples.

Internal Standards

All internal standard areas were within -50% to +100% for all samples with the exception of the low ISs acenaphthene-d10 and phenanthrene-d10 in sample SB-2(39-41). This sample was reanalyzed and yielding similar results confirming the presence of matrix effects. Therefore, positive results associated with these ISs were considered estimated, possibly biased high, and

qualified “J+” whereas nondetected results were considered unusable and qualified “R” for the affected sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the MS/MSD accuracy results for 1,1-dichloroethane, chloroform, tetrachloroethene, toluene, and m,p-xylenes during the spiked analyses of sample MW-4(49-51). Validation qualification of the parent sample was not required for these compounds with the exception of the nondetected result for m,p-xylenes which was considered estimated and qualified “UJ”.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recovery for 1,3-dichlorobenzene (122%R; QC limit 82-120%R) associated with samples MW-2(5-7), SB-2(9-11), SB-3(15-17), and SB-3(35-37). Validation qualification was not required.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within $\pm 20\%$ with the exception of 1,1,1-trichloroethane (23.24%D) and 1,2,4-trichlorobenzene (25.88%D) in the continuing calibration associated with samples SB-2(9-11) and SB-3(35-37); and 1,2,4-trichlorobenzene (22.24%D) and 1,2,3-trichlorobenzene (22.37%D) in the continuing calibration associated with samples MW-1(7-9), MW-4(11-13), MW-4A(11-13), MW-4(49-51), MW-3(11-13), MW-3(29-31), MW-2(5-7), MW-2(25-27), SB-1(7-9), SB-1(17-19), SB-3(15-17), and SB-2(39-41). Therefore, the results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified "UJ" for the affected samples.

Usability

All volatile sample results were considered usable following data validation with the exception of certain nondetected compounds based upon low internal standard responses.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile soil data presented by Chemtech were 98.6% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A.

2.2.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination

- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, initial and continuing calibrations, and field duplicate precision as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the MS/MSD precision results for 2,4-dinitrophenol, benzo(b)anthracene, and benzo(k)anthracene during the spiked analyses of sample MW-4(49-51). Validation qualification of the parent sample was not required for these compounds.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 2,4-dinitrophenol (40.34%RSD) in the initial calibration associated with samples MW-4(11-13), MW-4A(11-13), MW-3(11-13), MW-4(49-51), MW-1(23-25), and SB-3(35-37). Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within $\pm 20\%$ with the exception of 2,4-dinitrophenol (54.1%D), 4-nitrophenol (65.2%D), and 4,6-dinitro-2-methylphenol (42%D) in the continuing calibration associated with samples MW-4(49-51), MW-1(23-25), and SB-3(35-37). Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for fluoranthene (90%RPD) and pyrene (91%RPD) associated with sample MW-4(11-13) and its field duplicate MW-4A(11-13). Therefore, the results for these compounds were considered estimated and qualified "J" for these samples.

Usability

All semivolatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The soil semivolatile data presented by Chemtech were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A.

2.2.3 Polychlorinated Biphenyls (PCBs)

The following items were reviewed for compliancy in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and equipment blank contamination
- GC instrument performance
- Initial and continuing calibrations
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries as discussed below.

Surrogate Recoveries

All surrogate recoveries were considered acceptable and within QC limits with the exception of the low tetrachloro-m-xylene recovery (QC limit 30-150%R) on the confirmation column in sample SB-2(39-41) (6%R). Validation qualification of this sample was not required.

Usability

All PCB sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PCB soil data presented by Chemtech were 100% complete (i.e., usable). The validated PCB laboratory data are tabulated and presented in Attachment A.

2.2.4 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Initial and continuing calibration verifications
- Field duplicate precision

- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, matrix spike recoveries, and serial dilutions as discussed below.

Blank Contamination

The laboratory preparation blank associated with the soil samples contained sodium below the reporting limit at a concentration of 8.56 mg/kg. Validation qualification of the soil samples was not required.

Matrix Spike Recoveries

All matrix spike recoveries were within the 75-125%R QC limit with the exception of the matrix spike recoveries for antimony (69.9%R, 68.6%R) and potassium (127%R) associated with sample MW-4(49-51%R). The nondetected antimony result was considered estimated and qualified "UJ" for this sample. The positive potassium result was considered estimated, possibly biased high, and qualified "J+" for this sample.

Serial Dilutions

All ICP serial dilution results were considered acceptable and less than 10%D with the exception of the serial dilution for manganese (13%D) associated with sample MW-4(49-51). Therefore, the manganese result was considered estimated and qualified "J" for this sample.

Usability

All inorganics sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The inorganics soil data presented by Chemtech were 100% complete (i.e., usable). The validated inorganics laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A
VALIDATED LABORATORY DATA

ATTACHMENT A-1

VALIDATED LABORATORY DATA FOR GROUNDWATER SAMPLES

| | | Field Duplicate | | | | | | | | |
|---|---------------------------------------|--|--|---|--|--|--|---|---|---|
| Con Ed - Hunts Point Validated Groundwater Analytical Data October 2014 SDG: F4556 | | Location ID: Sample ID: Lab Sample ID: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1-20141031 F4556-01 CTECH F4556 GROUNDWATER 10/31/2014 11:00 11/24/2014 | MW-1 MW-11-20141031 F4556-04 CTECH F4556 GROUNDWATER 10/31/2014 11:20 11/24/2014 | MW-2 MW-2-20141031 F4556-11 CTECH F4556 GROUNDWATER 10/31/2014 15:10 11/24/2014 | MW-3 MW-3-20141031 F4556-07 CTECH F4556 GROUNDWATER 10/31/2014 10:05 11/24/2014 | MW-4 MW-4-20141031 F4556-05 CTECH F4556 GROUNDWATER 10/31/2014 13:20 11/24/2014 | FIELDQC FB100914-20141031 F4556-09 CTECH F4556 GROUNDWATER 10/31/2014 10:50 11/24/2014 | FIELDQC FB103114-20141031 F4556-08 CTECH F4556 GROUNDWATER 10/31/2014 10:40 11/24/2014 | FIELDQC TB103014-20141030 F4556-10 CTECH F4556 GROUNDWATER 10/30/2014 10:20 11/24/2014 |
| CAS NO. | COMPOUND | UNITS: | | | | | | | | |
| VOLATILES | | | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/l | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U | 0.95 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 108-90-7 | CHLOROETHANE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U |

| Con Ed - Hunts Point Validated Groundwater Analytical Data October 2014 SDG: F4556 | | Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated: | Field Duplicate | | | | | | | FIELDQC FB100914-20141031 F4556-09 CTECH F4556 GROUNDWATER 10/31/2014 10:50 11/24/2014 | FIELDQC FB103114-20141031 F4556-08 CTECH F4556 GROUNDWATER 10/31/2014 10:40 11/24/2014 | FIELDQC TB103014-20141030 F4556-10 CTECH F4556 GROUNDWATER 10/30/2014 10:20 11/24/2014 |
|---|---------------------------|--|--|---|--|--|--|---------|---------|---|---|---|
| | | | MW-1 MW-1-20141031 F4556-01 CTECH F4556 GROUNDWATER 10/31/2014 11:00 11/24/2014 | MW-1 MW-11-20141031 F4556-04 CTECH F4556 GROUNDWATER 10/31/2014 11:20 11/24/2014 | MW-2 MW-2-20141031 F4556-11 CTECH F4556 GROUNDWATER 10/31/2014 15:10 11/24/2014 | MW-3 MW-3-20141031 F4556-07 CTECH F4556 GROUNDWATER 10/31/2014 10:05 11/24/2014 | MW-4 MW-4-20141031 F4556-05 CTECH F4556 GROUNDWATER 10/31/2014 13:20 11/24/2014 | UNITS: | | | | |
| CAS NO. | COMPOUND | | | | | | | | | | | |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | | |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.3 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.3 U | 0.3 U | | |
| 91-20-3 | NAPHTHALENE | ug/l | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | 0.12 U | | |
| 98-95-3 | NITROBENZENE | ug/l | 0.69 U | 0.69 U | 0.7 U | 0.69 U | 0.69 U | 0.69 U | 0.68 UJ | 0.69 U | | |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 UJ | 0.2 U | | |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.61 U | 0.61 U | 0.62 U | 0.61 U | 0.61 U | 0.61 U | 0.6 UJ | 0.61 U | | |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | | |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 4.3 J | 0.27 U | 0.27 U | 3.1 J | 0.26 U | 0.26 U | 0.26 U | | |
| 108-95-2 | PHENOL | ug/l | 0.21 U | 0.21 U | 0.22 U | 0.21 U | 0.21 U | 0.21 UJ | 0.21 UJ | 0.21 U | | |
| 129-00-0 | PYRENE | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | | |

| | | Field Duplicate | | | | | | | | |
|---|------------------------|--|--|---|--|--|--|---|---|---|
| Con Ed - Hunts Point Validated Groundwater Analytical Data October 2014 SDG: F4556 | | Location ID: Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1-20141031 F4556-01 CTECH F4556 GROUNDWATER 10/31/2014 11:00 11/24/2014 | MW-1 MW-11-20141031 F4556-04 CTECH F4556 GROUNDWATER 10/31/2014 11:20 11/24/2014 | MW-2 MW-2-20141031 F4556-11 CTECH F4556 GROUNDWATER 10/31/2014 15:10 11/24/2014 | MW-3 MW-3-20141031 F4556-07 CTECH F4556 GROUNDWATER 10/31/2014 10:05 11/24/2014 | MW-4 MW-4-20141031 F4556-05 CTECH F4556 GROUNDWATER 10/31/2014 13:20 11/24/2014 | FIELDQC FB100914-20141031 F4556-09 CTECH F4556 GROUNDWATER 10/31/2014 10:50 11/24/2014 | FIELDQC FB103114-20141031 F4556-08 CTECH F4556 GROUNDWATER 10/31/2014 10:40 11/24/2014 | FIELDQC TB103014-20141030 F4556-10 CTECH F4556 GROUNDWATER 10/30/2014 10:20 11/24/2014 |
| CAS NO. | COMPOUND | UNITS: | | | | | | | | |
| PCBS | | | | | | | | | | |
| 12674-11-2 | PCB-1016 (AROCOR 1016) | ug/l | 0.098 U | 0.099 U | 0.098 U | 0.097 U | 0.097 U | 0.097 U | 0.097 U | |
| 11104-28-2 | PCB-1221 (AROCOR 1221) | ug/l | 0.102 U | 0.103 U | 0.102 U | 0.101 U | 0.101 U | 0.101 U | 0.101 U | |
| 11141-16-5 | PCB-1232 (AROCOR 1232) | ug/l | 0.102 U | 0.103 U | 0.102 U | 0.101 U | 0.101 U | 0.101 U | 0.101 U | |
| 53469-21-9 | PCB-1242 (AROCOR 1242) | ug/l | 0.091 U | 0.092 U | 0.091 U | 0.09 U | 0.09 U | 0.09 U | 0.09 U | |
| 12672-29-6 | PCB-1248 (AROCOR 1248) | ug/l | 0.102 U | 0.103 U | 0.102 U | 0.101 U | 0.101 U | 0.101 U | 0.101 U | |
| 11097-69-1 | PCB-1254 (AROCOR 1254) | ug/l | 0.045 U | 0.045 U | 0.045 U | 0.044 U | 0.044 U | 0.044 U | 0.044 U | |
| 11096-82-5 | PCB-1260 (AROCOR 1260) | ug/l | 0.083 U | 0.084 U | 0.083 U | 0.082 U | 0.082 U | 0.082 U | 0.082 U | |
| INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 156 | 219 | 13300 | 59.1 | 1970 | 12.8 J | 30.2 J | |
| 7440-36-0 | ANTIMONY | ug/l | 6.25 U | 6.25 U | 6.25 U | 6.25 U | 6.25 U | 6.25 U | 6.25 U | |
| 7440-38-2 | ARSENIC | ug/l | 4.34 J | 4.7 J | 7.34 J | 3.09 J | 6.25 U | 2.5 U | 2.5 U | |
| 7440-39-3 | BARIIUM | ug/l | 301 J- | 294 | 266 | 53.9 | 555 | 4 U | 4 U | |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.72 J | 0.7 U | 0.7 U | 0.7 U | 0.7 U | |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | |
| 7440-70-2 | CALCIUM | ug/l | 121200 | 119900 | 95000 | 153100 | 604600 | 31.8 U | 127 J | |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 4.44 J | 10.48 J | 35.2 | 1.1 U | 4.91 J | 1.1 U | 1.1 U | |
| 7440-48-4 | COBALT | ug/l | 3.75 U | 3.75 U | 11.9 J | 3.75 U | 6.07 J | 3.75 U | 3.75 U | |
| 7440-50-8 | COPPER | ug/l | 2 U | 2.45 J | 35.6 | 8.12 J | 9.7 J | 2 U | 2 U | |
| 7439-89-6 | IRON | ug/l | 3280 J- | 3400 | 16700 | 148 | 6300 | 13 J | 57.3 | |
| 7439-92-1 | LEAD | ug/l | 6.31 | 5.97 J | 151 | 1.85 J | 11.2 | 1.5 U | 1.81 J | |
| 7439-95-4 | MAGNESIUM | ug/l | 12600 | 12600 | 43000 | 553000 | 180900 | 32.5 U | 32.5 U | |
| 7439-96-5 | MANGANESE | ug/l | 1270 | 1250 | 1120 | 13.5 | 8260 | 1.7 U | 1.7 U | |
| 7439-97-6 | MERCURY | ug/l | 0.1 U | 0.1 U | 0.589 | 0.1 U | 0.1 U | 0.1 U | 0.1 U | |
| 7440-02-0 | NICKEL | ug/l | 4.2 U | 4.2 U | 34.3 | 4.2 U | 6.98 J | 4.2 U | 4.2 U | |
| 7440-09-7 | POTASSIUM | ug/l | 13700 | 13800 | 37600 | 213400 | 186400 | 38.8 U | 38.8 U | |
| 7782-49-2 | SELENIUM | ug/l | 4.8 UJ | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | |
| 7440-22-4 | SILVER | ug/l | 1.25 UJ | 1.25 U | 1.25 U | 1.25 U | 1.25 U | 1.25 U | 1.25 U | |
| 7440-23-5 | SODIUM | ug/l | 459800 | 457300 | 2895100 | 13.9 U | 23762000 | 13.9 U | 75.6 J | |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | |
| 7440-62-2 | VANADIUM | ug/l | 5 U | 5 U | 28.5 | 5 U | 5 U | 5 U | 5 U | |
| 7440-66-6 | ZINC | ug/l | 6.79 J | 8.35 J | 130 | 5.9 J | 7.59 J | 5 U | 5 U | |
| 57-12-5 | CYANIDE | ug/l | 11 | 12 | 235 | 11 | 132 | 3 U | 3 U | |
| DISSOLVED METALS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | | | 52 | | | | | |
| 7440-36-0 | ANTIMONY | ug/l | | | 6.25 U | | | | | |
| 7440-38-2 | ARSENIC | ug/l | | | 7.19 J | | | | | |
| 7440-39-3 | BARIIUM | ug/l | | | 161 | | | | | |
| 7440-41-7 | BERYLLIUM | ug/l | | | 0.7 U | | | | | |
| 7440-43-9 | CADMIUM | ug/l | | | 0.5 U | | | | | |
| 7440-70-2 | CALCIUM | ug/l | | | 111300 | | | | | |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | | | 1.1 U | | | | | |
| 7440-48-4 | COBALT | ug/l | | | 3.75 U | | | | | |
| 7440-50-8 | COPPER | ug/l | | | 10.75 | | | | | |
| 7439-89-6 | IRON | ug/l | | | 145 | | | | | |
| 7439-92-1 | LEAD | ug/l | | | 4.78 J | | | | | |
| 7439-95-4 | MAGNESIUM | ug/l | | | 46100 | | | | | |
| 7439-96-5 | MANGANESE | ug/l | | | 1120 | | | | | |
| 7439-97-6 | MERCURY | ug/l | | | 0.1 U | | | | | |
| 7440-02-0 | NICKEL | ug/l | | | 13.2 J | | | | | |
| 7440-09-7 | POTASSIUM | ug/l | | | 39300 | | | | | |
| 7782-49-2 | SELENIUM | ug/l | | | 4.8 U | | | | | |
| 7440-22-4 | SILVER | ug/l | | | 1.25 U | | | | | |
| 7440-23-5 | SODIUM | ug/l | | | 13.9 U | | | | | |
| 7440-28-0 | THALLIUM | ug/l | | | 2.4 U | | | | | |
| 7440-62-2 | VANADIUM | ug/l | | | 5 U | | | | | |
| 7440-66-6 | ZINC | ug/l | | | 13.3 J | | | | | |

ATTACHMENT A-2

VALIDATED LABORATORY DATA FOR SOIL SAMPLES

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1(7-9)-20141001 F4241-01 7 - 9 ft CTECH F4241 SOIL 10/1/2014 9:58 11/12/2014 | MW-1 MW-1(23-25)-20141001 F4241-02 23 - 25 ft CTECH F4241 SOIL 10/1/2014 11:25 11/12/2014 | MW-2 MW-2(5-7)-20141006 F4241-10 5 - 7 ft CTECH F4241 SOIL 10/6/2014 14:48 11/12/2014 | MW-2 MW-2(25-27)-20141007 F4241-11 25 - 27 ft CTECH F4241 SOIL 10/7/2014 9:50 11/12/2014 | MW-3 MW-3(11-13)-20141003 F4241-08 11 - 13 ft CTECH F4241 SOIL 10/3/2014 14:20 11/12/2014 | MW-3 MW-3(29-31)-20141006 F4241-09 29 - 31 ft CTECH F4241 SOIL 10/6/2014 9:45 11/12/2014 |
|--|---------------------------------------|--|--|---|---|--|---|--|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.55 U | 4.3 J | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.51 U | 0.52 U | 0.52 U | 0.54 U | 0.51 U | 0.6 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 0.99 U | 1 U | 1 U | 1.1 U | 1 U | 1.2 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.55 UJ | 0.56 U | 0.57 UJ | 0.59 UJ | 0.56 UJ | 0.65 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.55 UJ | 0.56 U | 0.57 UJ | 0.59 UJ | 0.56 UJ | 0.65 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 0.96 U | 0.99 U | 0.99 U | 1 U | 0.97 U | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| XYLMP | M.P.-XYLENE (SUM OF ISOMERS) | ug/kg | 0.79 U | 0.81 U | 0.82 U | 0.84 U | 0.81 U | 0.93 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.29 U | 0.29 U | 0.3 U | 0.3 U | 0.29 U | 0.34 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.41 U | 0.42 U | 0.42 U | 0.43 U | 0.41 U | 0.48 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.45 U | 0.46 U | 0.47 U | 0.48 U | 0.46 U | 0.53 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 110 U | 110 U | 110 U | 120 U | 110 U | 130 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 2.8 U | 2.8 U | 2.9 U | 2.9 U | 2.8 U | 3.2 U |
| 67-64-1 | ACETONE | ug/kg | 37.1 | 13 J | 18.1 J | 27.5 J | 18.5 J | 100 |
| 71-43-2 | BENZENE | ug/kg | 0.42 U | 0.43 U | 0.43 U | 0.44 U | 0.42 U | 0.49 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.82 U | 0.83 U | 0.84 U | 0.87 U | 0.83 U | 0.96 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U | 1.3 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 3.5 J | 0.56 U | 0.57 U | 3.9 J | 0.56 U | 5.5 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 108-90-7 | CHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.53 U | 0.54 U | 0.55 U | 0.56 U | 0.54 U | 0.62 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U | 1.3 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.4 U | 3.5 U | 3.5 U | 3.6 U | 3.5 U | 18.6 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2.8 U | 2.8 U | 2.9 U | 2.9 U | 2.8 U | 3.2 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 3.5 J | 4.1 J | 4.2 J | 5.4 J | 4.9 J | 5.2 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 100-42-5 | STYRENE | ug/kg | 0.5 U | 0.51 U | 0.51 U | 0.53 U | 0.5 U | 0.58 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 108-88-3 | TOLUENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.59 U | 0.56 U | 0.65 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1(7-9)-20141001 F4241-01 7 - 9 ft CTECH F4241 SOIL 10/1/2014 9:58 11/12/2014 | MW-1 MW-1(23-25)-20141001 F4241-02 23 - 25 ft CTECH F4241 SOIL 10/1/2014 11:25 11/12/2014 | MW-2 MW-2(5-7)-20141006 F4241-10 5 - 7 ft CTECH F4241 SOIL 10/6/2014 14:48 11/12/2014 | MW-2 MW-2(25-27)-20141007 F4241-11 25 - 27 ft CTECH F4241 SOIL 10/7/2014 9:50 11/12/2014 | MW-3 MW-3(11-13)-20141003 F4241-08 11 - 13 ft CTECH F4241 SOIL 10/3/2014 14:20 11/12/2014 | MW-3 MW-3(29-31)-20141006 F4241-09 29 - 31 ft CTECH F4241 SOIL 10/6/2014 9:45 11/12/2014 |
|--|--------------------------------|--|--|---|---|--|---|--|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 72.3 U | 14.7 U | 29.8 U | 15.3 U | 14.6 U | 17 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 72.3 U | 14.7 U | 29.8 U | 15.3 U | 14.6 U | 17 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 130 U | 26.2 U | 53.2 U | 27.4 U | 26 U | 30.4 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 56.3 U | 11.4 U | 23.2 U | 11.9 U | 11.4 U | 13.3 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 70.1 U | 14.2 U | 28.9 U | 14.8 U | 14.1 U | 16.5 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 100 U | 21.1 U | 43 U | 22.1 U | 21 U | 24.6 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 190 U | 37.9 UJ | 77.1 U | 39.6 U | 37.7 UJ | 44.1 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 55.2 U | 11.2 U | 22.7 U | 11.7 U | 11.1 U | 13 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 75.1 U | 15.2 U | 30.9 U | 15.9 U | 15.1 U | 17.7 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 42 U | 8.5 U | 17.3 U | 8.9 U | 8.5 U | 9.9 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 97.2 U | 19.7 U | 40 U | 20.6 U | 19.6 U | 22.9 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 46.4 U | 9.4 U | 19.1 U | 9.8 U | 9.4 U | 10.9 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 99.9 U | 20.3 U | 41.2 U | 21.2 U | 20.1 U | 23.5 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 81.7 U | 16.6 U | 33.7 U | 17.3 U | 16.5 U | 19.2 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 88.9 U | 18 U | 36.6 U | 18.8 U | 17.9 U | 20.9 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 95.5 U | 19.4 U | 39.3 U | 20.2 U | 19.3 U | 22.5 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 120 U | 23.9 U | 48.7 U | 25 U | 23.8 U | 27.8 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 120 U | 23.9 U | 48.7 U | 25 U | 23.8 U | 27.8 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 110 U | 21.4 UJ | 43.4 U | 22.3 U | 21.3 U | 24.8 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 35.9 U | 7.3 U | 14.8 U | 7.6 U | 7.2 U | 8.5 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 81.7 U | 16.6 U | 33.7 U | 17.3 U | 16.5 U | 19.2 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 130 U | 26.3 U | 53.4 U | 27.5 U | 26.2 U | 30.6 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 99.9 U | 20.3 U | 41.2 U | 21.2 U | 20.1 U | 23.5 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 240 U | 48.6 U | 98.7 U | 50.7 U | 48.3 U | 56.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 340 U | 69.3 UJ | 140 U | 72.4 U | 68.9 U | 80.5 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 51.9 U | 10.5 U | 21.4 U | 11 U | 10.5 U | 12.2 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 46.4 U | 9.4 U | 19.1 U | 9.8 U | 9.4 U | 10.9 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 56.3 U | 11.4 U | 23.2 U | 11.9 U | 11.4 U | 13.3 U |
| 120-12-7 | ANTHRACENE | ug/kg | 37.5 U | 7.6 U | 15.5 U | 7.9 U | 7.6 U | 8.8 U |
| 1912-24-9 | ATRAZINE | ug/kg | 97.2 U | 19.7 U | 40 U | 20.6 U | 19.6 U | 22.9 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 96.1 U | 19.5 U | 39.6 U | 20.3 U | 19.4 U | 22.6 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 520 J | 17.8 U | 36.2 U | 160 J | 17.7 U | 20.7 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 410 J | 8.1 U | 16.4 U | 130 J | 8 U | 9.4 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 560 J | 12.2 U | 24.8 U | 150 J | 12.1 U | 14.2 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 74.5 U | 15.1 U | 30.7 U | 150 J | 15 U | 17.6 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 86.7 U | 17.6 U | 35.7 U | 92.4 J | 17.5 U | 20.4 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 88.3 U | 17.9 U | 36.4 U | 18.7 U | 17.8 U | 20.8 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 69.6 U | 14.1 U | 28.6 U | 14.7 U | 14 U | 16.4 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 110 U | 21.5 U | 43.7 U | 22.4 U | 21.4 U | 25 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 88.3 U | 17.9 U | 36.4 U | 18.7 U | 17.8 U | 20.8 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 76.2 U | 15.4 U | 31.4 U | 16.1 U | 15.4 U | 17.9 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 2600 | 190 J | 26.8 U | 110 J | 280 J | 95.4 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 85.6 U | 17.3 U | 35.2 U | 18.1 U | 17.3 U | 20.2 U |
| 86-74-8 | CARBAZOLE | ug/kg | 40.3 U | 8.2 U | 16.6 U | 8.5 U | 8.1 U | 9.5 U |
| 218-01-9 | CHRYSENE | ug/kg | 410 J | 16.9 U | 34.3 U | 170 J | 16.8 U | 19.6 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 53 U | 10.7 U | 21.8 U | 11.2 U | 10.7 U | 12.5 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 71.8 U | 14.5 U | 29.6 U | 15.2 U | 14.5 U | 16.9 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 28.7 U | 5.8 U | 11.8 U | 6.1 U | 5.8 U | 6.8 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 610 J | 350 J | 530 J | 500 | 400 | 410 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 140 U | 29.3 U | 59.6 U | 30.6 U | 29.2 U | 34.1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 21 U | 4.3 U | 8.6 U | 4.4 U | 4.2 U | 4.9 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 820 J | 7.5 U | 170 J | 250 J | 7.5 U | 8.7 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1(7-9)-20141001 F4241-01 7 - 9 ft CTECH F4241 SOIL 10/1/2014 9:58 11/12/2014 | MW-1 MW-1(23-25)-20141001 F4241-02 23 - 25 ft CTECH F4241 SOIL 10/1/2014 11:25 11/12/2014 | MW-2 MW-2(5-7)-20141006 F4241-10 5 - 7 ft CTECH F4241 SOIL 10/6/2014 14:48 11/12/2014 | MW-2 MW-2(25-27)-20141007 F4241-11 25 - 27 ft CTECH F4241 SOIL 10/7/2014 9:50 11/12/2014 | MW-3 MW-3(11-13)-20141003 F4241-08 11 - 13 ft CTECH F4241 SOIL 10/3/2014 14:20 11/12/2014 | MW-3 MW-3(29-31)-20141006 F4241-09 29 - 31 ft CTECH F4241 SOIL 10/6/2014 9:45 11/12/2014 |
|--|---------------------------|--|--|---|---|--|---|--|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| 86-73-7 | FLUORENE | ug/kg | 69.6 U | 14.1 U | 28.6 U | 14.7 U | 14 U | 16.4 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 75.1 U | 15.2 U | 30.9 U | 15.9 U | 15.1 U | 17.7 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 66.8 U | 13.5 U | 27.5 U | 14.1 U | 13.5 U | 15.7 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 44.7 U | 9.1 U | 18.4 U | 9.5 U | 9 U | 10.5 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 82.3 U | 16.7 U | 33.9 U | 17.4 U | 16.6 U | 19.4 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 61.3 U | 12.4 U | 25.2 U | 120 J | 12.4 U | 14.4 U |
| 78-59-1 | ISOPHORONE | ug/kg | 60.7 U | 12.3 U | 25 U | 12.9 U | 12.2 U | 14.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 63.5 U | 12.9 U | 26.1 U | 13.4 U | 12.8 U | 15 U |
| 98-95-3 | NITROBENZENE | ug/kg | 69.6 U | 14.1 U | 28.6 U | 14.7 U | 14 U | 16.4 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 92.8 U | 18.8 U | 38.2 U | 19.6 U | 18.7 U | 21.8 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 44.2 U | 9 U | 18.2 U | 9.4 U | 8.9 U | 10.4 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 130 U | 25.5 U | 51.8 U | 26.7 U | 25.4 U | 29.6 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 520 J | 10.1 U | 20.5 U | 180 J | 10 U | 11.7 U |
| 108-95-2 | PHENOL | ug/kg | 42.5 U | 8.6 U | 17.5 U | 79.5 J | 8.6 U | 10 U |
| 129-00-0 | PYRENE | ug/kg | 710 J | 9 U | 190 J | 230 J | 8.9 U | 10.4 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-1 MW-1(7-9)-20141001 F4241-01 7 - 9 ft CTECH F4241 SOIL 10/1/2014 9:58 11/12/2014 | MW-1 MW-1(23-25)-20141001 F4241-02 23 - 25 ft CTECH F4241 SOIL 10/1/2014 11:25 11/12/2014 | MW-2 MW-2(5-7)-20141006 F4241-10 5 - 7 ft CTECH F4241 SOIL 10/6/2014 14:48 11/12/2014 | MW-2 MW-2(25-27)-20141007 F4241-11 25 - 27 ft CTECH F4241 SOIL 10/7/2014 9:50 11/12/2014 | MW-3 MW-3(11-13)-20141003 F4241-08 11 - 13 ft CTECH F4241 SOIL 10/3/2014 14:20 11/12/2014 | MW-3 MW-3(29-31)-20141006 F4241-09 29 - 31 ft CTECH F4241 SOIL 10/6/2014 9:45 11/12/2014 |
|--|-------------------------|--|--|---|---|--|---|--|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | PCBS | | | | | | | |
| 12674-11-2 | PCB-1016 (AROCLOR 1016) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| 11104-28-2 | PCB-1221 (AROCLOR 1221) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| 11141-16-5 | PCB-1232 (AROCLOR 1232) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| 53469-21-9 | PCB-1242 (AROCLOR 1242) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| 12672-29-6 | PCB-1248 (AROCLOR 1248) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| 11097-69-1 | PCB-1254 (AROCLOR 1254) | ug/kg | 1.6 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.9 U |
| 11096-82-5 | PCB-1260 (AROCLOR 1260) | ug/kg | 88 | 3.7 U | 3.8 U | 3.9 U | 3.7 U | 4.3 U |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6130 | 7320 | 6730 | 9300 | 1420 | 6030 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.524 U | 0.522 U | 0.537 J | 0.607 J | 0.505 U | 0.594 U |
| 7440-38-2 | ARSENIC | mg/kg | 3.07 | 1.32 | 3.29 | 3.02 | 3.47 | 5.49 |
| 7440-39-3 | BARIUM | mg/kg | 178 | 75.2 | 73.8 | 92 | 18.1 | 44.3 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.404 | 0.381 | 0.442 | 0.496 | 0.142 J | 0.426 |
| 7440-43-9 | CADMIUM | mg/kg | 0.056 U | 0.056 U | 0.056 U | 0.058 U | 0.054 U | 0.064 U |
| 7440-70-2 | CALCIUM | mg/kg | 17600 | 1800 | 35200 | 2680 | 14900 | 5330 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 22.3 | 20.9 | 15.5 | 20.9 | 8.65 | 18.1 |
| 7440-48-4 | COBALT | mg/kg | 7.93 | 11.9 | 7.58 | 11.5 | 1.65 | 5.89 |
| 7440-50-8 | COPPER | mg/kg | 20 | 18.5 | 16.6 | 17.5 | 8.8 | 18.6 |
| 7439-89-6 | IRON | mg/kg | 15400 | 20000 | 16700 | 23500 | 5560 | 17600 |
| 7439-92-1 | LEAD | mg/kg | 112 | 4.17 | 87.8 | 35 | 41 | 63.2 |
| 7439-95-4 | MAGNESIUM | mg/kg | 6970 | 3780 | 18900 | 4770 | 5870 | 4280 |
| 7439-96-5 | MANGANESE | mg/kg | 201 | 170 | 227 | 233 | 64.8 | 304 |
| 7439-97-6 | MERCURY | mg/kg | 1.41 | 0.005 U | 0.175 | 0.053 | 0.038 | 0.145 |
| 7440-02-0 | NICKEL | mg/kg | 38.5 | 17.9 | 14.4 | 17.3 | 3.38 | 14 |
| 7440-09-7 | POTASSIUM | mg/kg | 1760 | 4280 | 1870 | 3800 | 337 | 1480 |
| 7782-49-2 | SELENIUM | mg/kg | 0.234 U | 0.51 J | 0.347 J | 0.594 J | 0.225 U | 0.743 J |
| 7440-22-4 | SILVER | mg/kg | 1.07 | 1.1 | 1.12 | 1.52 | 0.296 J | 1.61 |
| 7440-23-5 | SODIUM | mg/kg | 765 | 952 | 911 | 2330 | 1120 | 11900 |
| 7440-28-0 | THALLIUM | mg/kg | 0.253 U | 0.251 U | 0.253 U | 0.259 U | 0.243 U | 0.287 U |
| 7440-62-2 | VANADIUM | mg/kg | 20.9 | 32 | 22.8 | 28.8 | 6.87 | 18.8 |
| 7440-66-6 | ZINC | mg/kg | 155 | 43.9 | 81.9 | 72.3 | 28.8 | 105 |
| 57-12-5 | CYANIDE | mg/kg | 1.86 | 0.034 U | 0.194 J | 0.238 J | 0.221 J | 0.056 J |

Field Duplicate of MW-4

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-4 MW-4(11-13)-20141002 F4241-03 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:05 11/12/2014 | MW-4A MW-4A(11-13)-20141002 F4241-04 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:15 11/12/2014 | MW-4 MW-4(49-51)-20141003 F4241-05 49 - 51 ft CTECH F4241 SOIL 10/3/2014 8:30 11/12/2014 | SB-1 SB-1(7-9)-20141007 F4241-12 7 - 9 ft CTECH F4241 SOIL 10/7/2014 13:47 11/12/2014 | SB-1 SB-1(17-19)-20141007 F4241-13 17 - 19 ft CTECH F4241 SOIL 10/7/2014 14:15 11/12/2014 | SB-2 SB-2(9-11)-20141008 F4241-14 9 - 11 ft CTECH F4241 SOIL 10/8/2014 11:25 11/12/2014 |
|--|---------------------------------------|--|---|---|--|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.51 U | 0.51 U | 0.53 U | 0.53 U | 0.58 U | 0.53 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 0.99 U | 1 U | 1 U | 1 U | 1.1 U | 1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.55 UJ | 0.56 UJ | 0.57 UJ | 0.58 UJ | 0.63 UJ | 0.57 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.55 UJ | 0.56 UJ | 0.57 UJ | 0.58 UJ | 0.63 UJ | 0.57 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 0.96 U | 0.97 U | 1 U | 1 U | 1.1 U | 1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| XYLMP | M.P.-XYLENE (SUM OF ISOMERS) | ug/kg | 0.79 U | 0.8 U | 0.82 UJ | 0.84 U | 0.91 U | 0.82 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.29 U | 0.29 U | 0.3 U | 0.3 U | 0.33 U | 0.3 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.41 U | 0.41 U | 0.42 U | 0.43 U | 0.47 U | 0.42 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.45 U | 0.46 U | 0.47 U | 0.48 U | 0.52 U | 0.47 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 110 U | 110 U | 110 U | 120 U | 130 U | 110 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 2.8 U | 2.8 U | 2.9 U | 2.9 U | 3.2 U | 2.9 U |
| 67-64-1 | ACETONE | ug/kg | 18.1 J | 24 J | 15 J | 8.6 J | 42.7 | 16.2 J |
| 71-43-2 | BENZENE | ug/kg | 0.42 U | 0.42 U | 0.44 U | 0.44 U | 0.48 U | 0.44 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.82 U | 0.82 U | 0.85 U | 0.86 U | 0.93 U | 0.85 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 1.3 U | 1.1 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 6.5 | 0.57 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.53 U | 0.53 U | 0.55 U | 0.56 U | 0.61 U | 0.55 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 1.3 U | 1.1 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.4 U | 3.5 U | 3.6 U | 3.6 U | 3.9 U | 3.6 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2.8 U | 2.8 U | 2.9 U | 2.9 U | 3.2 U | 2.9 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 5.4 J | 4.8 J | 5.1 J | 4.9 J | 5.3 J | 5.8 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 100-42-5 | STYRENE | ug/kg | 0.5 U | 0.5 U | 0.52 U | 0.52 U | 0.57 U | 0.52 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 108-88-3 | TOLUENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.55 U | 0.56 U | 0.57 U | 0.58 U | 0.63 U | 0.57 U |

| | | Field Duplicate of MW-4 | | | | | | |
|--|--------------------------------|--|---|---|--|---|---|---|
| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-4 MW-4(11-13)-20141002 F4241-03 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:05 11/12/2014 | MW-4A MW-4A(11-13)-20141002 F4241-04 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:15 11/12/2014 | MW-4 MW-4(49-51)-20141003 F4241-05 49 - 51 ft CTECH F4241 SOIL 10/3/2014 8:30 11/12/2014 | SB-1 SB-1(7-9)-20141007 F4241-12 7 - 9 ft CTECH F4241 SOIL 10/7/2014 13:47 11/12/2014 | SB-1 SB-1(17-19)-20141007 F4241-13 17 - 19 ft CTECH F4241 SOIL 10/7/2014 14:15 11/12/2014 | SB-2 SB-2(9-11)-20141008 F4241-14 9 - 11 ft CTECH F4241 SOIL 10/8/2014 11:25 11/12/2014 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 14.4 U | 14.5 U | 15 U | 15.2 U | 16.6 U | 74.8 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 14.4 U | 14.5 U | 15 U | 15.2 U | 16.6 U | 74.8 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 25.8 U | 25.9 U | 26.9 U | 27.2 U | 29.6 U | 130 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 11.2 U | 11.3 U | 11.7 U | 11.9 U | 12.9 U | 58.2 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 14 U | 14.1 U | 14.6 U | 14.8 U | 16.1 U | 72.5 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 20.8 U | 20.9 U | 21.7 U | 22 U | 23.9 U | 110 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 37.3 UJ | 37.5 UJ | 38.9 UJ | 39.4 U | 42.9 U | 190 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11 U | 11.1 U | 11.5 U | 11.6 U | 12.6 U | 57.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 15 U | 15.1 U | 15.6 U | 15.8 U | 17.2 U | 77.7 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 8.4 U | 8.4 U | 8.7 U | 8.8 U | 9.6 U | 43.4 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 19.4 U | 19.5 U | 20.2 U | 20.5 U | 22.2 U | 100 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 9.2 U | 9.3 U | 9.6 U | 9.8 U | 10.6 U | 48 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 19.9 U | 20 U | 20.8 U | 21.1 U | 22.9 U | 100 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 16.3 U | 16.4 U | 17 U | 17.2 U | 18.7 U | 84.5 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 17.7 U | 17.8 U | 18.5 U | 18.7 U | 20.4 U | 91.9 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 19 U | 19.2 U | 19.9 U | 20.1 U | 21.9 U | 98.8 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 23.6 U | 23.7 U | 24.6 U | 24.9 U | 27.1 U | 120 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 23.6 U | 23.7 U | 24.6 U | 24.9 U | 27.1 U | 120 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 21 U | 21.1 U | 21.9 UJ | 22.2 U | 24.1 U | 110 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.2 U | 7.2 U | 7.5 U | 7.6 U | 8.2 U | 37.1 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 16.3 U | 16.4 U | 17 U | 17.2 U | 18.7 U | 84.5 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 25.9 U | 26 U | 27 U | 27.3 U | 29.7 U | 130 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 19.9 U | 20 U | 20.8 U | 21.1 U | 22.9 U | 100 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 47.8 U | 48.1 U | 49.8 U | 50.5 U | 54.9 U | 250 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 68.2 U | 68.5 U | 71.1 UJ | 72 U | 78.3 U | 350 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 10.4 U | 10.4 U | 10.8 U | 10.9 U | 11.9 U | 53.7 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 9.2 U | 9.3 U | 9.6 U | 9.8 U | 10.6 U | 48 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 11.2 U | 11.3 U | 11.7 U | 11.9 U | 12.9 U | 58.2 U |
| 120-12-7 | ANTHRACENE | ug/kg | 7.5 U | 97.8 J | 7.8 U | 7.9 U | 8.6 U | 38.8 U |
| 1912-24-9 | ATRAZINE | ug/kg | 19.4 U | 19.5 U | 20.2 U | 20.5 U | 22.2 U | 100 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 19.2 U | 19.3 U | 20 U | 20.2 U | 22 U | 99.4 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 88.1 J | 290 J | 18.3 U | 18.5 U | 20.1 U | 880 J |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 7.9 U | 230 J | 8.3 U | 8.4 U | 9.1 U | 620 J |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 92.1 J | 270 J | 12.5 U | 12.7 U | 13.8 U | 800 J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 14.9 U | 120 J | 15.5 U | 15.7 U | 17.1 U | 390 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 17.3 U | 17.4 U | 18 U | 18.3 U | 19.8 U | 460 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 17.6 U | 17.7 U | 18.4 U | 18.6 U | 20.2 U | 91.4 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 13.9 U | 14 U | 14.5 U | 14.7 U | 15.9 U | 71.9 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 21.1 U | 21.3 U | 22 U | 22.3 U | 24.3 U | 110 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 17.6 U | 17.7 U | 18.4 U | 18.6 U | 20.2 U | 91.4 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 15.2 U | 15.3 U | 15.8 U | 16.1 U | 17.4 U | 78.8 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 830 | 670 | 13.5 U | 140 J | 14.9 U | 1300 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 17.1 U | 17.2 U | 17.8 U | 18 U | 19.6 U | 88.5 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8 U | 8.1 U | 8.4 U | 8.5 U | 9.2 U | 41.7 U |
| 218-01-9 | CHRYSENE | ug/kg | 93.6 J | 260 J | 17.3 U | 17.6 U | 19.1 U | 780 J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 10.6 U | 10.6 U | 11 U | 11.2 U | 12.1 U | 54.8 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 14.3 U | 14.4 U | 14.9 U | 15.1 U | 16.4 U | 74.2 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 5.7 U | 5.8 U | 6 U | 6 U | 6.6 U | 29.7 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 570 | 390 | 350 J | 410 | 440 | 51.4 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 28.8 U | 29 U | 30.1 U | 30.5 U | 33.1 U | 150 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.2 U | 4.2 U | 4.4 U | 4.4 U | 4.8 U | 21.7 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 200 J | 530 J | 7.7 U | 120 J | 86.4 J | 1900 |

Field Duplicate of MW-4

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-4 MW-4(11-13)-20141002 F4241-03 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:05 11/12/2014 | MW-4A MW-4A(11-13)-20141002 F4241-04 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:15 11/12/2014 | MW-4 MW-4(49-51)-20141003 F4241-05 49 - 51 ft CTECH F4241 SOIL 10/3/2014 8:30 11/12/2014 | SB-1 SB-1(7-9)-20141007 F4241-12 7 - 9 ft CTECH F4241 SOIL 10/7/2014 13:47 11/12/2014 | SB-1 SB-1(17-19)-20141007 F4241-13 17 - 19 ft CTECH F4241 SOIL 10/7/2014 14:15 11/12/2014 | SB-2 SB-2(9-11)-20141008 F4241-14 9 - 11 ft CTECH F4241 SOIL 10/8/2014 11:25 11/12/2014 |
|--|---------------------------|--|---|---|--|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| 86-73-7 | FLUORENE | ug/kg | 13.9 U | 14 U | 14.5 U | 14.7 U | 15.9 U | 71.9 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 15 U | 15.1 U | 15.6 U | 15.8 U | 17.2 U | 77.7 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 13.3 U | 13.4 U | 13.9 U | 14.1 U | 15.3 U | 69.1 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 8.9 U | 9 U | 9.3 U | 9.4 U | 10.2 U | 46.3 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 16.4 U | 16.5 U | 17.1 U | 17.3 U | 18.8 U | 85.1 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 12.2 U | 110 J | 12.7 U | 12.9 U | 14 U | 390 J |
| 78-59-1 | ISOPHORONE | ug/kg | 12.1 U | 12.2 U | 12.6 U | 12.8 U | 13.9 U | 62.8 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 12.7 U | 12.7 U | 13.2 U | 13.4 U | 14.5 U | 65.7 U |
| 98-95-3 | NITROBENZENE | ug/kg | 13.9 U | 14 U | 14.5 U | 14.7 U | 15.9 U | 71.9 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 18.5 U | 18.6 U | 19.3 U | 19.5 U | 21.2 U | 95.9 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 8.8 U | 8.9 U | 9.2 U | 9.3 U | 10.1 U | 45.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 25.1 U | 25.2 U | 26.2 U | 26.5 U | 28.8 U | 130 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 170 J | 240 J | 10.3 U | 86.9 J | 11.4 U | 1200 J |
| 108-95-2 | PHENOL | ug/kg | 8.5 U | 8.5 U | 8.8 U | 9 U | 9.7 U | 44 U |
| 129-00-0 | PYRENE | ug/kg | 180 J | 480 J | 9.2 U | 100 J | 86.4 J | 1500 J |

Field Duplicate of MW-4

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | MW-4 MW-4(11-13)-20141002 F4241-03 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:05 11/12/2014 | MW-4A MW-4A(11-13)-20141002 F4241-04 11 - 13 ft CTECH F4241 SOIL 10/2/2014 10:15 11/12/2014 | MW-4 MW-4(49-51)-20141003 F4241-05 49 - 51 ft CTECH F4241 SOIL 10/3/2014 8:30 11/12/2014 | SB-1 SB-1(7-9)-20141007 F4241-12 7 - 9 ft CTECH F4241 SOIL 10/7/2014 13:47 11/12/2014 | SB-1 SB-1(17-19)-20141007 F4241-13 17 - 19 ft CTECH F4241 SOIL 10/7/2014 14:15 11/12/2014 | SB-2 SB-2(9-11)-20141008 F4241-14 9 - 11 ft CTECH F4241 SOIL 10/8/2014 11:25 11/12/2014 |
|--|-------------------------|--|---|---|--|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| PCBS | | | | | | | | |
| 12674-11-2 | PCB-1016 (AROCLOR 1016) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| 11104-28-2 | PCB-1221 (AROCLOR 1221) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| 11141-16-5 | PCB-1232 (AROCLOR 1232) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| 53469-21-9 | PCB-1242 (AROCLOR 1242) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| 12672-29-6 | PCB-1248 (AROCLOR 1248) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| 11097-69-1 | PCB-1254 (AROCLOR 1254) | ug/kg | 1.6 U | 1.6 U | 1.7 U | 1.7 U | 1.9 U | 1.7 U |
| 11096-82-5 | PCB-1260 (AROCLOR 1260) | ug/kg | 3.7 U | 3.7 U | 3.8 U | 3.9 U | 4.2 U | 3.8 U |
| INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 8030 | 7780 | 3160 | 7420 | 8130 | 6700 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.519 U | 0.509 U | 0.531 UJ | 0.537 U | 0.963 J | 0.522 U |
| 7440-38-2 | ARSENIC | mg/kg | 2.17 | 2.48 | 0.789 J | 2.73 | 3.54 | 3.4 |
| 7440-39-3 | BARIUM | mg/kg | 84.8 | 84.4 | 46.2 | 90.3 | 77.1 | 134 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.596 | 0.536 | 0.218 J | 0.455 | 0.493 | 0.455 |
| 7440-43-9 | CADMIUM | mg/kg | 0.056 U | 0.055 U | 0.057 U | 0.057 U | 0.064 U | 0.056 U |
| 7440-70-2 | CALCIUM | mg/kg | 10700 | 12100 | 1160 | 1370 | 8590 | 34000 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 22.3 | 23.4 | 12 | 18.6 | 19.3 | 31.2 |
| 7440-48-4 | COBALT | mg/kg | 12.5 | 11.2 | 4.81 | 11.7 | 8.31 | 7.17 |
| 7440-50-8 | COPPER | mg/kg | 17.4 | 18.5 | 7.16 | 18.5 | 21 | 31.1 |
| 7439-89-6 | IRON | mg/kg | 21700 | 19600 | 9190 | 20700 | 17900 | 17600 |
| 7439-92-1 | LEAD | mg/kg | 76.6 | 113 | 6.39 | 53.1 | 121 | 131 |
| 7439-95-4 | MAGNESIUM | mg/kg | 9300 | 9000 | 1410 | 3270 | 6730 | 12900 |
| 7439-96-5 | MANGANESE | mg/kg | 301 | 322 | 261 J | 322 | 226 | 238 |
| 7439-97-6 | MERCURY | mg/kg | 0.064 | 0.064 | 0.011 J | 0.07 | 0.155 | 0.138 |
| 7440-02-0 | NICKEL | mg/kg | 45.2 | 30.7 | 7.66 | 19.8 | 15.4 | 16.9 |
| 7440-09-7 | POTASSIUM | mg/kg | 2410 | 2060 | 1110 J+ | 2880 | 1730 | 1430 |
| 7782-49-2 | SELENIUM | mg/kg | 0.406 J | 0.478 J | 0.237 U | 0.489 J | 0.451 J | 0.283 J |
| 7440-22-4 | SILVER | mg/kg | 1.41 | 1.25 | 0.53 | 1.35 | 1.2 | 1.16 |
| 7440-23-5 | SODIUM | mg/kg | 2290 | 2580 | 2320 | 876 | 1920 | 2500 |
| 7440-28-0 | THALLIUM | mg/kg | 0.25 U | 0.245 U | 0.256 U | 0.259 U | 0.287 U | 0.251 U |
| 7440-62-2 | VANADIUM | mg/kg | 34.4 | 30 | 14.8 | 25.4 | 22.2 | 27.5 |
| 7440-66-6 | ZINC | mg/kg | 85.9 | 89.6 | 20.6 | 71.5 | 96.1 | 162 |
| 57-12-5 | CYANIDE | mg/kg | 0.205 J | 0.345 | 0.065 J | 0.075 J | 0.04 J | 8.42 |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | SB-2 SB-2(39-41)-20141009 F4241-15 39 - 41 ft CTECH F4241 SOIL 10/9/2014 8:30 11/12/2014 | SB-3 SB-3(15-17)-20141009 F4241-16 15 - 17 ft CTECH F4241 SOIL 10/9/2014 11:25 11/12/2014 | SB-3 SB-3(35-37)-20141009 F4241-17 35 - 37 ft CTECH F4241 SOIL 10/9/2014 14:00 11/12/2014 |
|--|---------------------------------------|--|--|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | VOLATILES | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | R | 0.48 U | 0.51 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.4 U | 0.94 U | 1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | R | 0.52 UJ | 0.56 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | R | 0.52 UJ | 0.56 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | R | 0.91 U | 0.97 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | R | 0.52 U | 0.56 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| XYLMP | M.P.-XYLENE (SUM OF ISOMERS) | ug/kg | 9.5 J+ | 0.75 U | 0.81 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.39 U | 0.27 U | 0.29 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | R | 0.39 U | 0.41 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | R | 0.43 U | 0.46 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 150 U | 100 U | 110 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3.8 U | 2.6 U | 2.8 U |
| 67-64-1 | ACETONE | ug/kg | 110 | 7.7 J | 11.2 J |
| 71-43-2 | BENZENE | ug/kg | 0.57 U | 0.4 U | 0.43 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-25-2 | BROMOFORM | ug/kg | R | 0.77 U | 0.83 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.5 U | 1 U | 1.1 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 11.3 | 0.52 U | 0.56 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | R | 0.52 U | 0.56 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 47 J+ | 0.52 U | 0.56 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 44.1 J+ | 0.5 U | 0.54 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.5 U | 1 U | 1.1 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 32.9 J | 3.2 U | 3.5 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.8 U | 2.6 U | 2.8 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 2.2 J | 0.52 U | 0.56 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 14.6 | 2.7 J | 6.2 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 9.9 J+ | 0.52 U | 0.56 U |
| 100-42-5 | STYRENE | ug/kg | R | 0.47 U | 0.5 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | R | 0.52 U | 0.56 U |
| 108-88-3 | TOLUENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.76 U | 0.52 U | 0.56 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.76 U | 0.52 U | 0.56 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample ID: Depth: Source: SDG: Matrix: Sampled: Validated: | SB-2 SB-2(39-41)-20141009 F4241-15 39 - 41 ft CTECH F4241 SOIL 10/9/2014 8:30 11/12/2014 | SB-3 SB-3(15-17)-20141009 F4241-16 15 - 17 ft CTECH F4241 SOIL 10/9/2014 11:25 11/12/2014 | SB-3 SB-3(35-37)-20141009 F4241-17 35 - 37 ft CTECH F4241 SOIL 10/9/2014 14:00 11/12/2014 |
|--|--------------------------------|--|--|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | SEMIVOLATILES | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 39.4 U | 13.6 U | 14.6 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 39.4 U | 13.6 U | 14.6 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 70.3 U | 24.3 U | 26.2 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 30.7 U | 10.6 U | 11.4 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 38.2 U | 13.2 U | 14.2 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 56.8 U | 19.6 U | 21.1 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 100 U | 35.1 U | 37.9 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 30.1 U | 10.4 U | 11.2 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 40.9 U | 14.1 U | 15.2 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 22.8 U | 7.9 U | 8.5 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 52.9 U | 18.2 U | 19.7 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 700 J | 8.7 U | 9.4 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 54.4 U | 18.8 U | 20.2 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 44.5 U | 15.3 U | 16.5 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 48.4 U | 16.7 U | 18 U |
| MEPH3MEPH3 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 52 U | 17.9 U | 19.3 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 64.3 U | 22.2 U | 23.9 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 64.3 U | 22.2 U | 23.9 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 57.4 U | 19.8 U | 21.4 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 19.5 U | 6.7 U | 7.3 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 44.5 U | 15.3 U | 16.5 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 70.6 U | 24.4 U | 26.3 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 54.4 U | 18.8 U | 20.2 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 130 U | 45 U | 48.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 190 U | 64.2 U | 69.2 UJ |
| 83-32-9 | ACENAPHTHENE | ug/kg | 610 J | 9.7 U | 10.5 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 480 J | 8.7 U | 9.4 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 30.7 U | 10.6 U | 11.4 U |
| 120-12-7 | ANTHRACENE | ug/kg | 1400 | 7.1 U | 7.6 U |
| 1912-24-9 | ATRAZINE | ug/kg | 52.9 U | 18.2 U | 19.7 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 52.3 U | 18 U | 19.5 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 2100 | 16.5 U | 17.8 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 1600 | 7.5 U | 8 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 1500 | 11.3 U | 12.2 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 750 J | 14 U | 15.1 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 620 J | 16.3 U | 17.5 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 48.1 U | 16.6 U | 17.9 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 37.9 U | 13.1 U | 14.1 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 57.7 U | 19.9 U | 21.5 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 48.1 U | 16.6 U | 17.9 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 41.5 U | 14.3 U | 15.4 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 35.5 U | 400 | 13.2 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 46.6 U | 16.1 U | 17.3 U |
| 86-74-8 | CARBAZOLE | ug/kg | 21.9 U | 7.6 U | 8.2 U |
| 218-01-9 | CHRYSENE | ug/kg | 1900 | 15.7 U | 16.9 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 28.8 U | 10 U | 10.7 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 39.1 U | 13.5 U | 14.5 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 15.6 U | 380 | 320 J |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 710 J | 380 | 460 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 78.7 U | 27.2 U | 29.3 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 11.4 U | 3.9 U | 4.2 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 2900 | 74 J | 7.5 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | SB-2 SB-2(39-41)-20141009 F4241-15 39 - 41 ft CTECH F4241 SOIL 10/9/2014 8:30 11/12/2014 | SB-3 SB-3(15-17)-20141009 F4241-16 15 - 17 ft CTECH F4241 SOIL 10/9/2014 11:25 11/12/2014 | SB-3 SB-3(35-37)-20141009 F4241-17 35 - 37 ft CTECH F4241 SOIL 10/9/2014 14:00 11/12/2014 |
|--|---------------------------|--|--|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| 86-73-7 | FLUORENE | ug/kg | 670 J | 13.1 U | 14.1 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 40.9 U | 14.1 U | 15.2 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 36.4 U | 12.5 U | 13.5 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 24.3 U | 8.4 U | 9.1 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 44.8 U | 15.4 U | 16.7 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 680 J | 11.5 U | 12.4 U |
| 78-59-1 | ISOPHORONE | ug/kg | 33.1 U | 11.4 U | 12.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 360 J | 11.9 U | 12.9 U |
| 98-95-3 | NITROBENZENE | ug/kg | 37.9 U | 13.1 U | 14.1 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 50.5 U | 17.4 U | 18.8 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 24 U | 8.3 U | 8.9 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 68.5 U | 23.6 U | 25.5 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 3700 | 9.3 U | 10.1 U |
| 108-95-2 | PHENOL | ug/kg | 23.1 U | 8 U | 8.6 U |
| 129-00-0 | PYRENE | ug/kg | 3200 | 8.3 U | 8.9 U |

| Con Ed - Hunts Point Validated Soil Analytical Data October 2014 SDG: F4241 | | Location ID: Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated: | SB-2 SB-2(39-41)-20141009 F4241-15 39 - 41 ft CTECH F4241 SOIL 10/9/2014 8:30 11/12/2014 | SB-3 SB-3(15-17)-20141009 F4241-16 15 - 17 ft CTECH F4241 SOIL 10/9/2014 11:25 11/12/2014 | SB-3 SB-3(35-37)-20141009 F4241-17 35 - 37 ft CTECH F4241 SOIL 10/9/2014 14:00 11/12/2014 |
|--|-------------------------|--|--|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| PCBS | | | | | |
| 12674-11-2 | PCB-1016 (AROCLOR 1016) | ug/kg | 5 U | 3.5 U | 3.7 U |
| 11104-28-2 | PCB-1221 (AROCLOR 1221) | ug/kg | 5 U | 3.5 U | 3.7 U |
| 11141-16-5 | PCB-1232 (AROCLOR 1232) | ug/kg | 5 U | 3.5 U | 3.7 U |
| 53469-21-9 | PCB-1242 (AROCLOR 1242) | ug/kg | 5 U | 3.5 U | 3.7 U |
| 12672-29-6 | PCB-1248 (AROCLOR 1248) | ug/kg | 5 U | 3.5 U | 3.7 U |
| 11097-69-1 | PCB-1254 (AROCLOR 1254) | ug/kg | 2.2 U | 1.5 U | 1.7 U |
| 11096-82-5 | PCB-1260 (AROCLOR 1260) | ug/kg | 5 U | 3.5 U | 3.7 U |
| INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 10100 | 1710 | 7730 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.998 J | 0.472 U | 0.509 U |
| 7440-38-2 | ARSENIC | mg/kg | 21.6 | 1.23 | 1.83 |
| 7440-39-3 | BARIUM | mg/kg | 228 | 12.9 | 73 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.696 | 0.124 J | 0.477 |
| 7440-43-9 | CADMIUM | mg/kg | 0.682 | 0.051 U | 0.055 U |
| 7440-70-2 | CALCIUM | mg/kg | 6130 | 785 | 2090 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 49.8 | 4.72 | 22.8 |
| 7440-48-4 | COBALT | mg/kg | 10.47 | 1.95 | 10.83 |
| 7440-50-8 | COPPER | mg/kg | 150 | 4.04 | 21.6 |
| 7439-89-6 | IRON | mg/kg | 26800 | 5340 | 20800 |
| 7439-92-1 | LEAD | mg/kg | 478 | 10.07 | 4 |
| 7439-95-4 | MAGNESIUM | mg/kg | 6200 | 1030 | 4100 |
| 7439-96-5 | MANGANESE | mg/kg | 272 | 68.2 | 152 |
| 7439-97-6 | MERCURY | mg/kg | 2.07 | 0.019 | 0.005 U |
| 7440-02-0 | NICKEL | mg/kg | 30.1 | 3.24 | 18.9 |
| 7440-09-7 | POTASSIUM | mg/kg | 2940 | 335 | 3330 |
| 7782-49-2 | SELENIUM | mg/kg | 1.89 | 0.211 U | 0.612 J |
| 7440-22-4 | SILVER | mg/kg | 6.76 | 0.31 J | 1.3 |
| 7440-23-5 | SODIUM | mg/kg | 8500 | 79.9 J | 3540 |
| 7440-28-0 | THALLIUM | mg/kg | 0.34 U | 0.227 U | 0.246 U |
| 7440-62-2 | VANADIUM | mg/kg | 32.4 | 6.52 | 32.1 |
| 7440-66-6 | ZINC | mg/kg | 551 | 16.2 | 41.3 |
| 57-12-5 | CYANIDE | mg/kg | 1.49 | 0.032 U | 0.13 J |