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Remedial Investigation Report Former Unionport Works Site - Westchester Creek Sediment Investigation

Former Unionport Works Site (Site No. V00553)

March 2013



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Remedial Investigation Report, Former Unionport Works Site - Westchester Creek Sediment Investigation

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(Site No. V00553)

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1. Introduction

This Sediment Investigation Report has been prepared by ARCADIS on behalf of the Consolidated Edison Company of New York, Inc. (Con Edison) to present the results of the sediment investigation activities that were implemented to evaluate the presence and potential extent of manufactured gas plant (MGP) and non-MGP related impacts within Westchester Creek, located in Bronx, New York (the Site). The sediment investigation efforts were conducted in connection with the on-going Remedial Investigation (RI) for the former Unionport Works Site located at 1066 Zerega Avenue (the Site). This sediment investigation has been prepared in accordance with the requirements of a Voluntary Cleanup Agreement (VCA) between Con Edison and the New York State Department of Environmental Conservation (NYSDEC) (Site # V00553).

The Sediment Investigation Report summarizes field activities that were originally proposed as a Site Characterization (SC) Investigation for Westchester Creek. The NYSDEC and Con Edison have subsequently concluded that the sediment characterization efforts for Westchester Creek are a component to the RI for the Former Unionport Works Site.

1.1 Site Description

1.1.1 Site Location

The Former Unionport Works Site is an approximately 1.8 acre industrial property located at 1066 Zerega Avenue in the Unionport section of Bronx, New York. The property is bordered by Watson Avenue to the north, Zerega Avenue to the west, Blackrock Avenue to the south, and Westchester Creek to the East. A Site Location Map is presented on Figure 1-1.

1.1.2 Site Setting

The Former Unionport Works Site is currently occupied by an inactive petroleum bulk storage terminal consisting of above-grade structures and 11 underground fuel oil storage tanks located within a bermed area situated in the southern half of the property (shown on Figure 1-2). With the exception of the areas occupied by the tank berm and structures, the majority of the property is covered with asphalt pavement and/or concrete. A chain link fence currently surrounds the western portion of the Site along

Zerega Avenue and the southwest and southeast corners of the Site along Blackrock Avenue.

Areas adjacent to the Former Unionport Works Site consist primarily of industrial or commercial properties. A concrete and wood bulkhead extends along the west bank of Westchester Creek immediately adjacent to the Former Unionport Works Site. The eastern-most area of the site (along Westchester Creek) is separated from the remaining portion of the site by an approximately 8-foot high retaining wall. The portion of the Unionport Works Site west of the retaining wall is generally flat with an elevation of approximately 20 feet above mean sea level (AMSL) at the western property boundary. The area east of the retaining wall slopes toward Westchester Creek, with the lowest elevation of approximately 10 feet AMSL. Surface drainage flows east/southeast toward Westchester Creek. The majority of the Former Unionport Works Site is paved and has been graded to slope toward storm sewer catch basins.

A Site Plan depicting the Site and pertinent site features is presented as Figure 1-2. Figure 1-2 also depicts the approximate locations of the former manufactured gas plant (MGP) features and the locations of borings and monitoring wells that were installed during upland site investigation activities completed in 2009.

Westchester Creek is an approximately 2.6-mile long tributary of the upper East River and is considered a tidal strait, as it has no direct input of freshwater (i.e., via tributaries). The mouth of Westchester Creek is located near Ferry Point Park. Near its confluence with the East River, Westchester Creek broadens to over 600 feet. Westchester Creek is designated as a Class I saline waterbody by the NYSDEC, which indicates that the waters should be suitable for fish propagation and survival and secondary contact recreation and fishing.

The portion of Westchester Creek subject to the 2011 sediment investigation activities is adjacent to the bulkhead and located approximately 400 feet north of two major interstates that intersect Westchester Creek: Bruckner Expressway (U.S. Interstate 278) and the Cross Bronx Expressway (U.S. Interstate 95). According to a Fact Sheet issued by the United States Army Corps of Engineers in September 2009 (Fact Sheet; USACE 2009) the creek was last dredged in 1991. At that time, a total of approximately 105,684 cubic yards of sediment were removed to improve the navigational channel. Water depths within Westchester Creek average 1 to 5 feet near the banks and approximately 12 feet in the improved navigation channel. According to the National Oceanic and Atmospheric Administration (NOAA), the mean range of tide at Kings Point, Queens (NOAA Station 8516945), located approximately 4.5 miles

southwest of the Site, is 7.1 feet (calculated from the published mean high water [MHW] and mean low water [MLW] elevations based on the 2011 Tidal Epoch). For 2009, the average high tide for Westchester Creek was approximately 7.26 feet and the average low tide was 0.34 feet. The maximum high tide elevation was 8.51 feet and the minimum low tide was -1.38 feet (2009 Mobile Graphics Monthly Tide Tables provided for Westchester Creek/East River). The Fact Sheet also indicated that a preliminary engineering design is underway to prepare for possible maintenance dredging to allow for safe passage of fuel barges and small tank vessels.

1.2 Site History

Annual reports submitted to the Public Service Commission (PSC) indicate that the Bronx Gas and Electric Company (BG&E) (a Con Edison predecessor company) began generating electricity at the Site in 1893. The 1898 Sanborn map shows BG&E occupying the Site, where it operated a small electric generating plant. Coal was shipped to the plant by water and transferred from a small wharf on Westchester Creek. BG&E constructed a new MGP at the Site in 1904 with a production rate of approximately 750,000 cf of gas per day. Gas produced at the Site was stored at the former Zerega Avenue Gas Holder site which is located directly across Zerega Avenue to the west.

The 1927 annual report to the PSC indicates the electric generating plant at the Site was withdrawn from service. In 1928, the MGP located at the Site was connected to gas mains owned by Consolidated Gas Company (a Con Edison predecessor company) and, on March 1, 1928, the MGP was shutdown and placed on stand-by status. Most of the MGP features at the site were dismantled in 1929. The gas holders at the former Zerega Avenue gas holder site were demolished in1966. Further details regarding the historical MGP operations at the Site are provided in the Site Characterization Report for the Former Unionport Works Site (ARCADIS 2010).

Consolidated Gas Company and Con Edison continued to own the Former Unionport Gas Works from 1929 to 1945. In 1945, Con Edison sold the Site to a petroleum company (Combined Petroleum Transfer Corporation). The Site was owned/operated by various petroleum companies from 1945 through 2007, except between 1947 and 1950 when Forsee Realty Corporation owned/operated the Site. The 1950 Sanborn map indicates the presence of two small buildings (constructed in1950), loading racks, and “fuel oil tanks buried in ground” with a capacity of approximately 2,200,000 gallons. Environmental records indicate that the bulk fuel oil tanks were installed at the Site in

1950. The petroleum company constructed a garage/office building on the north-central portion of the Site in 1962.

In 1991, Cibro Terminals, Inc. (Cibro) entered into a consent agreement with the NYSDEC (Order on Consent No. D2-1234-91-3). Subsequently, Oil Masters, LLC acquired the facility from Cibro in 1996 and a new consent order for the Site (Order on Consent No. D2-0001-96-12) was issued by the NYSDEC. The Site is currently privately owned and the petroleum bulk storage terminal is inactive.

1.3 Previous Investigations

Based on records obtained through a NYSDEC Freedom of Information Law (FOIL) request, multiple documented petroleum releases (12 releases) occurred at the Site between 1975 and 2000. Eight separate phases of investigation activities were performed at the Site between 1992 and 2001 to characterize soil and groundwater conditions. In addition, site characterization activities for accessible upland portions of the Site were conducted by ARCADIS in 2008 and 2009. Details of these petroleum releases and investigation activities are presented in the 2009 SC Report for the Former Unionport Works Site.

Based on the SC for the Former Unionport Works Site, the Site stratigraphy generally consists of fill to a depth of 10 to 12 feet below ground surface (bgs) underlain by clay and glacial till. Bedrock beneath the Site consists of Hartland Formation Gneiss. Surface drainage from the Former Unionport Works Site flows east/southeast toward Westchester Creek. Shallow groundwater generally flows toward the northeast near Zerega Avenue and predominantly east closer to Westchester Creek. Water levels in Westchester Creek are subject to tidal fluctuation. A Tidal Study conducted in 1999 indicates that tidal effects propagate throughout the Site.

Forensic results from the Former Unionport Works Site SC indicated a spatial stratification of hydrocarbon material types in soils at the Site with petroleum impacts predominately at the top of the water table and the groundwater smear zone, and MGP–related (coal tar) impacts predominately on top of the clay unit and in the glacial till unit. Non-aqueous phase liquid (NAPL) along the top of clay appears to be present throughout the Site and was observed in two of the three borings located along the bulkhead adjacent to Westchester Creek. NAPL below the clay unit appears to be present to the north and northeast of the Site; however, NAPL was not observed below the clay unit in three borings completed along the bulkhead. NAPL in the vadose zone was only observed in four borings located toward the west and southwest section of

the Site. NAPL at the water table was observed throughout the Site; however, NAPL was not observed at the water table in the three borings adjacent to the bulkhead.

1.4 Report Organization

Following this introductory section, the organization of the remaining sections of this Sediment Investigation Report is summarized in the table below.

Section	Description
Section 2 – Investigation Methods	Describes the 2011 field activities, site reconnaissance, background sample location selection, sediment probing, coring, and sampling activities, and laboratory analyses
Section 3 – Investigation Results	Presents the results of the site reconnaissance, sediment probing, and sediment sampling and analysis activities.
Section 4 – Conclusions and Next Steps	Provides the conclusions and next steps for Westchester Creek
Section 5 – References	Provides a list of documents cited in this Sediment Investigation Report.

2. Sediment Investigation Activities

The Westchester Creek sediment investigation activities were completed from May 2 to May 17, 2011 and included the following:

- Project Permitting and Notification
- Utility Clearance
- Site Reconnaissance
- Sediment Probing
- Background Sample Location Selection
- Sediment Core Collection and Survey
- Sample Core Processing, Sample Collection, and Laboratory Analysis
- Management of Investigation Derived Wastes
- Data Validation

The sediment investigation activities were completed in general accordance with the NYSDEC-approved Site Characterization Work Plan (SC Work Plan; ARCADIS, 2011), which was approved by the NYSDEC on March 23, 2011. Deviations from the proposed scope are discussed in the applicable sections below. Field notes from the sediment investigation field activities are included in Appendix A. Detailed descriptions of the field investigation and laboratory methods are presented in the Field Sampling Plan and Quality Assurance Project Plan (QAPP), which were included in the SC Work Plan.

2.1 Project Permitting and Notification

Prior to implementing the sediment investigation activities, ARCADIS notified the United States Coast Guard (New York Unit) to issue a Notice to Mariners for investigation activities which were conducted in navigable waterways. No federal, local, or state permits were required.

2.2 Utility Clearance

The utility clearance process for Westchester Creek included both upland and in-creek utility clearance efforts. Details of the utility clearance process are discussed below.

Upland Utility Clearance

Prior to mobilization, hard copies of available utility plates, drawings, and/or maps from the New York City Department of Environmental Protection (NYCDEP) and Con Edison were reviewed to determine the approximate locations of utilities in the vicinity of the Site. The New York City and Long Island One-Call Center (One Call) was contacted to locate and mark out subsurface utilities adjacent to Westchester Creek. This mark out survey extended far enough upstream and downstream to identify utilities that may cross under Westchester Creek in the vicinity of locations where near site probing and coring would occur (based upon the proximity and orientation of the upland utility lines to the shoreline). In addition, once the background sample locations were identified based on the site reconnaissance results (as discussed below), One Call was contacted and a second mark-out survey was conducted which extended far enough upstream to include the background locations.

The One Call utility mark out was completed in accordance with 16NYCRR Part 753 (also referred to as the Code 753 utility mark-out or Dig Safely Inc.). Consistent with the One-Call criteria, both utility mark-out requests were made at least 72 hours prior to initiating fieldwork. Confirmation that mark -outs were completed were received by facsimile or telephone from the participating utility companies. The sampling locations were adjusted based on the results of the mark out.

In-Creek Utility Clearance

Using the results of the upland mark out and document review (including plates for the opposite side of Westchester Creek), as well as reviewing NOAA charts and conducting reconnaissance for signage of river crossings, underwater gas and electric lines were identified immediately to the north of the westbound lanes of the Cross-Bronx Expressway (Interstate Route 95) overpass (Figure 2-1). Observations made during the site reconnaissance (Section 2.3) suggested that the electric line was placed in a serpentine pattern. Buffer zones were established by Con Edison and ARCADIS on each side of the active utility line(s). For the gas line, a 50 foot buffer zone was established. For the serpentine electric line, a 100 foot buffer zone was established. No probing or sediment borings were conducted within the buffer zones.

Consequently, specific sediment sampling locations proposed in the SC Work Plan were adjusted outside the buffer zones around the utilities identified within the sediment investigation area (see Figure 3-1 for identified utilities). Adjustments to the proposed sampling locations were approved by the NYSDEC.

2.3 Site Reconnaissance

A reconnaissance of Westchester Creek was performed from May 2 to May 4, 2011. The reconnaissance was initiated at the headwaters of Westchester Creek (approximately 4,000 feet north of the Site) and extended south to the Bruckner Expressway (Interstate Route 278) overpass, located approximately 400 feet downstream of the Former Unionport Works Site. The objectives of the reconnaissance were to:

- Characterize the present-day nature of the shore
- Identify locations and types of potential off-site sources of contamination (surface water, stormwater, combined sewer outfalls, or other contributors) to Westchester Creek upstream and downstream of and adjacent to the Site
- Identify potential utilities

To achieve these objectives the reconnaissance was performed at low tide when more of the shoreline was exposed. Results of the reconnaissance are presented in Section 3.1.

2.4 Sediment Probing

Sediment probing was completed to assess potential obstructions that could hinder the sediment core collection activities, the thickness of sediments, and the depth to the clay unit or refusal.

The sediment probing activities were completed from a 24-foot aluminum decked pontoon boat by manually advancing a 3/8 inch-diameter steel rod into the sediment surface until refusal was encountered. At each sediment probe location, water column and sediment depth (distance minus the depth of water), sediment consistency (soft sediments, obstructions), and the presence or absence of sheens were recorded in a dedicated field log book. Other pertinent observations, including the date and time the sediment probe was completed, were also recorded.

A total of 52 sediment probes were completed near the site. Initially 48 sediment probes (SP-01 to SP-48) were advanced in a grid pattern (50-foot north-south by 30-foot east west) within the near site sediments. The sediment probing activities for the near site sediments encompassed the area extending approximately 200 feet north

and 300 feet south of the Site, and approximately 150 feet east into the outer edge of the improved channel. The southern-most transect of sediment probing locations proposed in the SC Work Plan were determined to be too close to the serpentine electrical utility; therefore, for safety purposes, four additional sediment probing locations (SP-49 to SP-52) were added downstream of that serpentine electrical utility to further evaluate potential MGP-impacts downstream of the Site. The near site sediment probe locations are shown on Figure 2-3.

In addition to the 52 near site sediment probing locations, a total of 25 background sediment probing locations were advanced north of the Site. The background sediment probe locations were located at least 200 feet north of the northern Site property boundary and extended approximately 3,800 feet north of the Site. The background sediment probe locations are shown on Figure 2-1. Observations that were noted during the sediment probing activities are discussed in Section 3.2.1.

2.5 Background Sample Location Selection

Based on the results of the site reconnaissance activities (Section 2.3) and the background sediment probing (Section 2.4), a total of 21 background sediment sampling locations were selected. Background sediment sampling locations are shown on Figure 2-2. The background sediment sampling locations were selected in consultation with Con Edison and the NYSDEC on-site representative at locations that met the following criteria (based on the site reconnaissance and probing):

- At least 200 feet upstream of the northern Site boundary
- In areas that are not visibly impacted with surface sheens.
- Not located within 100 feet of a combined or storm sewer discharge point and
- From depositional environments, water depths, and sediment types that are similar to areas located adjacent to the Site.

Based on the initial background sediment probing observations, four locations did not meet one or more of the above-referenced sample selection criteria (i.e., BG-09 was determined to be within 100 feet of a discharge pipe outfall and surface sheens were observed at BGP-01, BGP-03, and BGP-10). These four background sampling locations were changed to the locations shown on Figure 2-1 (see locations BGP-01A, BGP-03A, BGP-09A and BGP-10A) and probed prior to conducting sampling activities.

The probing results from these new locations showed that the sediments met the above-listed selection criteria.

Background sediment samples were collected from the 0 to 0.5 foot surface sediment horizon at each background sampling location. The results of the background sediment sampling activities are presented in Section 3.2.

2.6 Sediment Core Collection and Survey

2.6.1 Sediment Core Collection

A total of 20 sediment cores (SD-20 to SD-39) were advanced within the near site sediments. In accordance with the SC Work Plan, sediment cores were collected at 18 near site sampling locations located in a series of 12 transects north, within, and south of the Site. Two additional sampling locations were identified to further delineate potential impacts that may be associated with the sheens that were identified at probing locations. The near site sediment cores were collected on May 9 to May 17, 2011, as follows:

- 4 core locations north of the Site,
- 10 core locations adjacent to the Site, and
- 6 core locations south of the Site.

The near site sediment core locations are shown on Figure 2-4.

Sediment cores were collected by ARCADIS using a pneumatic vibrating coring device (vibracore) equipped with a 3-inch by 15-foot sampling barrel and mounted on a 24-foot aluminum decked pontoon boat. Each core was advanced to clay or refusal. After collection, the sediment cores were transported to the mobile field processing facility set-up in a box truck at the end of Watson Avenue.

2.6.2 Surveying

All sediment probe and sample locations were surveyed by ARCADIS under the supervision of a New York State-licensed surveyor using survey-grade Real Time Kinematic Global Positioning System (RTK GPS) methods. Horizontal and vertical coordinates of each sediment probe and core were measured relative to a fixed control point and are provided in New York Long Island State Plane coordinates North American Datum 1983 (NAD83) and NAVD88.

2.7 Sediment Core Processing, Sample Collection, and Laboratory Analysis

Sediment cores were transported to the field processing facility for subsequent characterization, segmenting, and sample collection. At the core processing facility, the sediment cores were opened, photographed, visually characterized, and screened with a photoionization detector (PID). Observations, including sediment recovery, lithology, PID readings, and any other pertinent visual observations (i.e., sheen, odors, presence or absence of NAPL), were recorded. Following characterization, surface and subsurface sediment samples from the near site sediment cores were selected for analysis of chemical and physical parameters as indicated in Table 2-1.

Non-disposable equipment used during the sediment investigation activities was cleaned prior to mobilizing to the Site to complete the sediment investigation, between locations, and at the completion of investigation activities. Decontamination of tools and equipment used during the sediment investigation activities was completed using potable water and a phosphate-free detergent in accordance with the procedures provided in the SC Work Plan. Disposable equipment was used for sediment sample collection and, therefore, did not require decontamination.

Sediment samples were collected for chemical and physical analysis as follows:

- Surface samples (0 to 0.5 feet) from both near site sediment cores and the background sampling locations.
- One representative subsurface sediment sample from the lower layer in all sediment cores with at least two stratigraphic layers from the near site sediment cores.

All selected sediment samples were submitted to TestAmerica Laboratories (TestAmerica), of Shelton, Connecticut for the following analyses, except where noted:

- Target Compound List (TCL) Volatile Organic Compounds (VOCs), by United States Environmental Protection Agency (EPA) SW846 Method 8260
- TCL Semi-Volatile Organic Compounds (SVOCs) by EPA SW846 Method 8270
- Total Organic Carbon (TOC) by Lloyd Kahn Method
- Target Analyte List (TAL) Metals by EPA SW846 Method 6010

- Mercury by EPA SW846 Method 7470
- Cyanide by EPA SW846 Method 9010
- Grain Size by ASTM D422/D1140 (TestAmerica of Burlington, Vermont)
- NOAA list of Polycyclic Aromatic Hydrocarbons (PAH_{34}) by EPA Method 8270 SIM (Alpha Analytical of Mansfield, Massachusetts)

Twenty percent of the sediment samples were also submitted for the following additional analyses at the noted laboratories:

- Polychlorinated Biphenyls (PCBs) by EPA SW846 Method 8082 (TestAmerica of Shelton, Connecticut)
- Pesticides by EPA SW846 Method 80881A (TestAmerica of Shelton, Connecticut)
- Herbicides by EPA SW846 Method 8151 (TestAmerica of Edison, New Jersey)

Table 2-1 summarizes the analysis performed for each sediment sample. The laboratory results for the sediment samples are presented in Section 3.2. The laboratory analytical reports for the laboratory analyses of the sediment samples are provided in Appendix B.

2.8 Management of Investigation Derived Wastes

Residual sediment, decontamination water, disposable sampling equipment, personal protective equipment , and other investigation derived wastes (IDW) were containerized in new 55-gallon steel drums and temporarily staged on pallets in a designated area located next to the box truck (mobile field processing facility) parked on Watson Avenue for subsequent waste characterization, profiling, transportation, and disposal. .

One composite solid waste sample and one composite water sample was collected for waste disposal classification following completion of the site investigation activities. Following receipt of the analytical results for the waste characterization samples, a waste profile was prepared for the IDW for review and approval by the disposal facility. Following disposal facility acceptance, the IDW waste was transported by licensed haulers to Cycle Chem, Inc, located in Elizabeth, New Jersey for subsequent disposal

as non-hazardous waste. The laboratory analytical reports for the waste characterization analyses are provided in Appendix D. The waste disposal documentation is provided in Appendix G.

2.9 Data Validation

Analytical results generated for the laboratory analysis of the sediment samples were validated in accordance with procedures described in the QAPP (Appendix B of the SC Work Plan). Data Usability Summary Reports (DUSRs) were prepared in accordance with Appendix B of DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC 2010). The DUSRs include an assessment of data accuracy, precision, and completeness; significant quality assurance problems, solutions, corrections, and potential consequences; and analytical data validation reports.

After completion of the DUSRs, the validated analytical data were incorporated into the tables and figures included with this Sediment Investigation Report. Data qualified with a “U” are considered a non-detect value. Data qualified with an “R” were rejected and were not included in the dataset. Other qualified data were treated as a detected value in the dataset. DUSRs are provided in Appendix C.

3. Investigation Results

This section presents the results of the sediment investigation activities and describes the nature and extent of constituents that were identified at the Site based on the site reconnaissance, sediment probing activities, and the laboratory analytical data for the collected sediment samples.

3.1 Site Reconnaissance

The surrounding area in the vicinity of the Site is composed primarily of industrial and commercial properties. Three highway bridges are present approximately 500 feet south of the site, including the east and westbound bridges of the Cross Bronx Expressway and the Buckner Expressway. Land along the west side of Westchester Creek is primarily used for industrial purposes, whereas the land on the east side of Westchester Creek is used primarily for commercial uses.

A concrete and wood bulkhead extends along the west bank of Westchester Creek adjacent to the Former Unionport Works Site. Continuing north from the Site along the west bank of Westchester Creek, the bank consists primarily of sheetpiling, concrete headwalls, and a marina, all of which support the industrial usage along the west side of Westchester Creek. The banks along the east side of Westchester Creek across from the Site consist primarily of vegetation, stone, and/or riprap. During the site reconnaissance there were no obvious signs of distressed vegetation and there were no obvious NAPL seeps, staining, sheens, or odors.

As previously indicated, Westchester Creek is designated as a Class I saline waterbody by the NYSDEC, which indicates that the waters should be suitable for fish propagation and survival and secondary contact recreation and fishing. While no recreational use of Westchester Creek was observed at the time of the site reconnaissance, a marina, supporting recreational vessels was located approximately 1,100 feet north of the Site.

During the site reconnaissance, several discharge pipes were observed both upstream and downstream of the Site. Just south of the Site, a state pollutant discharge elimination system (SPDES) permitted outfall was observed on the west side of Westchester Creek near the petroleum bulk storage area (Permit No. 087874-001). No flow was observed from any of the observed discharge pipes at the time of the Site reconnaissance. The locations of each pipe observed at the time of the Site reconnaissance were surveyed using survey-grade RTK GPS equipment.

Observations made during the site reconnaissance, as well as the information collected on the observed pipes and outfalls are summarized in Table 3-1 and on Figure 3-1.

3.2 Sediment Investigation Results

The following subsections present the results of the near site and background sediment probing and sampling activities.

3.2.1 Sediment Probing

As part of the sediment investigation activities, sediment probing was conducted at 25 background locations and 52 near site locations. The background and near site sediment probing locations are presented on Figures 2-1 and 2-3, respectively. The information collected during the probing activities includes water column depths, sediment descriptions, presence of sheens and underwater obstructions. The water column depths measured at the background probing locations ranged from 5.5 feet to 21 feet. Water column depths measured at the near site locations ranged from 0.1 feet to 20.5 feet. In general, the deepest water is in the center of the creek and the shallowest water is present along the west side of the creek. The probing descriptions indicated that the surface sediments were typically silt over sand or gravel. However, sediment along the western shoreline often was silt over rock or a hard bottom. Trace sheens were observed at three background probing locations (BGP-01, BGP-03 and BGP-10) and at four near site locations (SP-06, SP-10, SP-29 and SP-44). No underwater obstructions were identified during the probing activities.

Sediment probing results and relevant observations made during the sediment probing activities are provided in Table 3-2.

3.2.2 Sediment Coring and Field Observation

Field observations of the sediment cores indicate that the upper sediments adjacent to the Site generally consist of silt with varying proportions of fine sand, gravel, and organic materials. The silt sediments generally ranged in thickness between 4.5 to 11.5 feet below sediment surface (bss). Deeper layers near the Site generally consist of clay and medium to fine sand with varying proportions of silt, clay and gravel. A clay layer was detected at seven near site locations (SB-23, SB-25, SB-27, SB-28, SB-30, SB-31 and SB-35). The sediment also contained trace organics consisting of roots, shells and/or leaf litter. Typically, sediments are thicker along the western shoreline

adjacent to the Site than in the center of the creek. The sediments along the eastern shoreline across from the Site are similar in thickness to the sediment in the center of Westchester Creek. Refusal was encountered at 12 near site cores at depths ranging from approximately 4.2 to 14.8 feet bss. The penetration depth of the remaining 8 cores ranged from 10 to 16 feet bss.

As shown on Table 3-3, a total of 34 near site and 21 background sediment samples were submitted to Test America for grain size analysis. Except for the surface sediment collected at SD-35, the general composition of the near site surface sediments was greater than 70% silt, less than 10% sand, less than 4% gravel and less than 20% clay. The general composition of the native alluvial clay layer in the subsurface was 40 to 50% clay, approximately 50% silt, and 10% or less sand. The sand layer generally consists of approximately 60 to 90% sand, 25% or less of silt, and clay and/or gravel each present at 15% or less. The grain size results for the sediment samples are presented in Table 3-3.

No observations of NAPL, staining or sheens were observed in the cores. PID readings were also recorded along the entire length of each core collected at the near site locations. The PID readings ranged from 0.0 to 42.4 ppm. All locations had core PID readings less than 9 ppm, except SD-36, which had a PID reading of 42.4 ppm in the top foot of the core. Other PID readings along the core from SD-36 ranged from 0.0 to 3.1 ppm.

Background sediment sample descriptions and sediment boring logs containing stratigraphic descriptions for each sediment core are provided in Appendix E. Three geologic cross sections extending across the former Unionport Works site through Westchester Creek were prepared based on the lithology information obtained from the cores collected at the following locations:

- SD-26, SD-27 and SD-28 (cross section A-A')
- SD-29, SD-30 and SD-31 (cross section C-C')
- SD-32, SD-33 and SD-34 (cross section B-B')

A geologic cross section location map and cross sections are presented on Figures 3-2 through 3-5. The cross sections illustrate that silt sediments are present above the native alluvial clay and till. However, the alluvial clay is only present in a portion of the locations. The alluvial clay was identified in the cores located further downstream in Westchester Creek, as shown on cross sections A-A' and C-C' (Figures 3-3 and 3-5, respectively). The alluvial clay layer thins out towards the center of Westchester Creek

along cross section A-A'. The lack of and thinning of the alluvial clay layer could be the result of natural erosion processes, navigational dredging, or possible historical use of docks at the Site with dredging to allow for dock access. The deeper sand is similar in composition to the upland till (as described in the SC Report for the Former Unionport Works Site). Shallow refusal at core locations closer to the western shore of Westchester Creek could possibly be due to obstructions such as bulkhead structures and the remnants of historical structures (e.g., docks, etc.).

Photographs of the background sediment samples and sediment cores are provided in Appendix F.

3.2.3 Chemical Characteristics of Sediment

A total of 55 sediment samples (excluding quality assurance/quality control [QA/QC] samples) were submitted for laboratory analysis from 20 near site sediment core locations and 21 background sample locations. Surface sediment samples (i.e., 0 to 6-inches) were collected from all background and near site sampling locations. In addition, at 14 near site locations, deeper sediment samples were also collected for laboratory analysis. Because no visually-impacted sediments were observed in the cores, Con Edison modified the field sampling plan to include the collection of deep samples based on the presence of at least two stratigraphic layers in a core. The deep samples were collected below the upper silt sediments. No NAPL-impacted sediments were observed during the sediment coring and processing activities; therefore, the deeper sample intervals were not archived, in accordance with the SC Work Plan.

Sediment samples were analyzed for SVOCs, PAH_{34}, VOCs, metals, cyanide, and TOC. A subset of the sediment samples (approximately 20 percent) were also analyzed for PCBs, pesticides, and herbicides. The analytical data have been validated as described in Section 2.9 and a copy of the laboratory data reports and DUSRs are included as Appendices B and C, respectively.

The analytical results for each sediment sample are provided in Tables 3-4 to 3-9, with select constituents summarized for each near site sediment core/background sample location on Figures 3-6 to 3-16. Results for total PAHs, total PCBs, and total benzene, toluene, ethylbenzene and xylenes (BTEX) were calculated based on the analytical results for individual constituents (constituents that were not detected were assigned a concentration of zero).

3.2.3.1 Screening Levels

For the purposes of evaluating the sediment sampling results, analytical results for individual SVOCs, VOCs, pesticides, herbicides, and total PCBs were compared to benthic aquatic life acute toxicity and benthic aquatic life chronic toxicity screening levels presented in the NYSDEC Technical Guidance for Screening Contaminated Sediments (1999). Total PAHs, total PCBs and total DDT were also compared to Long et al (1995) effects range-low (ER-L) and effects range-median (ER-M) screening levels for marine and estuarine sediment; and metals were compared to lowest effect levels (LEL) and severe effect levels (SEL) screening levels from Persaud et al. (1993) and Long and Morgan (1990), as presented in the NYSDEC Technical Guidance for Screening Contaminated Sediments. These screening levels are intended for comparison purposes only and do not represent remedial cleanup criteria.

The benthic aquatic acute and chronic toxicity screening levels are presented in micrograms per gram of organic carbon and are adjusted for each sample based on sample-specific TOC concentrations (EPA 1989, EPA 1991).

The ER-L and ER-M are based on matching biological and chemical data compiled from numerous studies. Long and Morgan (1990) and Long et al. (1995) arranged the data from these studies in ascending order of concentrations, and calculated the lower 10^{th} percentile of the effects data (the ER-L) and the median, or 50^{th} percentile, of the effects data (the ER-M). The ER-L and ER-M screening levels define concentration ranges that are said to represent potential for adverse effects. According to Long et al. (1995), "concentrations below the ER-L value represent a minimal-effects range; a range intended to estimate conditions in which effects would rarely be observed. Concentrations equal to and above the ER-L, but below the ER-M, represent a possible-effects range within which effects would occasionally occur. Finally, concentrations equivalent to and above the ER-M value represent a probable-effects range within which effects would frequently occur. It is important to note that screening level exceedances by themselves should not be considered indicative of risk. Long and Morgan (1990) did not intend these values to be used as sediment cleanup criteria, rather as preliminary screening levels.

For metals, the LEL presented in the Technical Guidance for Screening Contaminated Sediments (NYSDEC, 1999) represents the lowest of either the LEL from Persaud et al. (1993) or the Long and Morgan (1990) ER-L. Similarly, the SEL represents the lowest of either the SEL from Persaud et al. (1993) or the Long and Morgan (1990) ER-M. The LEL and SEL from Persaud et al. (1993) are based on long-term effects on

sediment-dwelling organisms. Specifically, the LEL indicates a concentration that would be expected to have no effect on the majority of sediment-dwelling organisms, and the SEL is a level that is "likely to affect the health of sediment-dwelling organisms" (Persaud et al., 1993). The LEL and SEL were derived using field-based data on the co-occurrence of sediment concentrations and benthic species. These levels represent the 95th percentiles of the tolerance ranges for all benthic species.

3.2.3.2 Semivolatile Organic Compounds and Polycyclic Aromatic Hydrocarbons

Analytical results for individual SVOC analytes and PAH_{34} analytes are tabulated in Tables 3-4 and 3-5, respectively. The near site sediment total PAH and total PAH_{34} results are presented on Figures 3-6 and 3-7, respectively. Background sediment total PAH and total PAH_{34} results are presented on Figures 3-8 and 3-9, respectively.

A total of 55 sediment samples were collected from 41 locations within the Westchester Creek (20 near site locations and 21 background locations) and analyzed for SVOCs. Sediment samples were obtained from the surface sediment interval (0 to 0.5 foot) at all sampling locations. Subsurface sediment samples were also submitted for analysis at select near site locations from depth intervals ranging from 4 to 5 feet bss to 13.8 to14.8 feet bss. All of the individual analytes were below the respective screening levels for contaminated sediments, with the exception of benzo(a)-anthracene in 16 background sample locations and 13 near site samples, and bis(2-ethylhexyl)phthalate in 6 background samples and 2 near site samples. A single fluorene concentration at background location BG-05 was also above its screening level.

Total PAH concentrations in the near site surface sediments (0 to 0.5 feet) ranged from 7.4 milligrams per kilogram (mg/kg) at SD-39, located in the improved channel just north of the Site to 22 mg/kg at SD-26, located outside the improved channel near the southeastern property boundary of the Site. The next highest total PAH concentration was 17 mg/kg at SD-20, located downstream of the Site beneath the Cross Bronx Expressway overpass.

Total PAH concentrations in the background surface sediment (0 to 0.5 foot) ranged from an estimated 1.1 mg/kg at BG-13 (located approximately 1,200 feet upstream of the Site) to 87 mg/kg in the sample collected from location BG-05 (located approximately 2,500 feet upstream of the Site).

A forensic evaluation, presented in Appendix H, was conducted on the PAH results for the background and near site sediment samples to determine whether there are PAH compositional differences between background and near site samples and among near site samples that would indicate potential sources of PAHs in the Creek sediments. The results of the forensic evaluation indicate that there is consistent similarity in PAH composition and Total PAH_{34} concentrations between and among the near site and upstream background sediment samples, which suggests that there is no evidence that the Former Unionport Works Site is a significant contributing source to PAHs identified in the Westchester Creek sediments.

3.2.3.3 Total Volatile Organic Compounds and BTEX

Analytical results for individual VOC analytes are provided in Table 3-6. The near site and background sediment total BTEX results are presented on Figures 3-10 and 3-11, respectively.

A total of 55 sediment samples were collected from 41 locations within the Westchester Creek (20 near site locations and 21 background locations) and analyzed for VOCs. The sediment samples were collected from the surface sediments at all sampling locations and from the subsurface at select near site locations from depth intervals ranging from 4 to 5 feet bss to 13.8 to14.8 feet bss. Detected individual VOC analytes were below screening levels.

Concentrations of BTEX in the near site sediment samples ranged from non-detect at several locations to 0.0042 mg/kg at SD-36 (0 to 0.5 foot) located north of the Site along the western shoreline. Background BTEX concentrations ranged from non-detect to 0.0057 mg/kg at BG-19 (0 to 0.5 foot). As with the near site samples, the individual VOC concentrations in the background samples were less than their respective screening levels.

3.2.3.4 Polychlorinated Biphenyls

The PCB results for the near site and background sediment samples are shown on Figures 3-12 and 3-13, and are tabulated in Table 3-7. A total of 8 sediment samples collected from Westchester Creek (4 near site locations and 4 background locations) were analyzed for PCBs. Total PCB concentrations in the near site sediments ranged from 0.13 mg/kg at sample location SD-21 (0 to 0.5 foot) to 0.36 mg/kg at sample location SD-33. Total PCB concentrations in the background sediment samples ranged from 0.33 mg/kg at sample location BG-19 to 2.7 mg/kg at sample location BG-

14, located approximately 1,500 feet upstream of the Site. All total PCB detections were below the screening level, with the exception of sample location BG-19.

3.2.3.5 Pesticides and Herbicides

The pesticide and herbicide analytical results are presented in Table 3-8.

A total of 8 sediment samples (4 near site locations and 4 background locations) collected from the Westchester Creek were analyzed for pesticides and herbicides. Gamma-chlordane was detected in all 8 sediment samples above the benthic chronic screening level and above the benthic acute screening level in the samples collected at locations BG-01 and SD-21. Alpha-chlordane was detected in all sediment samples above the NYSDEC benthic chronic screening levels, except in the sample collected at BG-01. Heptachlor was detected above the NYSDEC benthic chronic screening levels in samples collected from locations BG-14 and SD-21.All other detected pesticides had concentrations below their respective screening levels for benthic organisms.

Herbicides were not detected in any of the near site sediment samples. 2,4-D was detected in two of the background surface sediment samples (BG-10 and BG-14). At background location BG-10, 2,4-D was tentatively identified at an estimated concentration of 0.22 mg/kg (see Table 3-8 for an explanation of data qualifiers). At background location BG-14, 2,4-D was tentatively identified at an estimated concentration of 0.084 mg/kg. The detected concentration of 2,4-D in both of the background sediment sample locations was below the screening level for benthic organisms.

3.2.3.6 Metals

Analytical results for TAL metals are presented in Table 3-9. TAL metals results for the near site and background sediment sample locations are also presented on Figures 3-14 and 3-15, respectively.

A total of 55 sediment samples (34 near site sediment samples and 21 background sediment samples) were collected and analyzed for TAL metals. TAL metals that were detected at concentrations exceeding their respective SEL screening levels for one or more samples are summarized below:

Constituent	Number of Near Site Locations Exceeding Screening Levels (SELs)	Maximum Concentration at Near Site Locations (mg/kg)	Number of Background Locations Exceeding Screening Levels (SELs)	Maximum Concentration at Background Locations (mg/kg)
Arsenic	24	16.6	18	21.0
Cadmium	15	1.60	18	2.50
Chromium	27	101	21	92.7
Copper	27	225	20	338
Iron	27	43,700	20	57,600
Lead	20	309	21	361
Manganese	22	991	3	549
Mercury	20	1.30	21	3.90
Nickel	29	44.1	21	59.1
Silver	25	4.70	20	8.80
Zinc	20	561	21	1,050

No other TAL metals were detected at concentrations exceeding respective SELs. As illustrated in the table above, near site and background concentrations for TAL metals were generally similar.

3.2.3.7 Cyanide

The cyanide analytical results are presented in Table 3-9.

All of the collected sediment samples were submitted for cyanide analysis. Cyanide was not detected in any of the near site surface samples at a concentration above the quantitation limit. Cyanide was detected at an estimated concentration in two near site subsurface sediment samples as follows:

- SD-30 (8.5 to 9.5 feet) – estimated 0.39 mg/kg
- SD-37 (6.0 to 7.0 feet) – estimated 0.20 mg/kg

Cyanide was not detected in any of the background surface sediment samples.

3.2.3.8 Total Organic Carbon

TOC was measured in all 55 sediment samples collected. Concentrations of TOC in the near site surface sediment samples ranged from 41,400 mg/kg at SD-28 to 54,500 mg/kg at SD 20. In the near site subsurface sediments, TOC ranged from 210 mg/kg at SD-37 (6 to 7 feet) to 20,000 mg/kg at SD-23 (8 to 9 feet). Background surface sediment TOC concentrations ranged from 44,500 mg/kg at sample location BG-20 to 92,400 mg/kg at BG-01. In general, TOC concentrations generally decrease with increasing sample depth. The detected TOC concentrations at each sample location were used to calculate location-specific benthic aquatic life chronic and acute screening levels.

4. Conclusions and Next Steps

The Westchester Creek sediment investigation activities were performed to evaluate the physical setting, physical and chemical sediment characteristics, and background conditions of Westchester Creek. The physical setting and physical characteristics of near site sediments in Westchester Creek are similar to those for the background sediments. Sediment within Westchester Creek contains a variety of constituents at varying concentrations depending on location.

The overall objective of the sediment investigation was to assess the nature and extent of MGP and non-MGP related impacts in Westchester Creek. The data provided in this report addressed the following objectives:

- Objective 1: Determine if MGP- and/or non-MGP-related compounds are present in sediments in Westchester Creek adjacent to the Site.

- Objective 2: Identify the potential presence of MGP- and/or non-MGP-related by-product residuals (such as coal tar, non-aqueous phase liquid [NAPL], purifier wastes, petroleum, solvents, etc.) in sediments in Westchester Creek adjacent to the Site.

- Objective 3: Determine compliance with applicable NYSDEC standards, criteria, and guidance values (SCGs).

- Objective 4: Provide sufficient data to evaluate the necessity for further investigation and/or remedial action.

To meet objective 1, 20 near site sediment core locations and 21 background locations were sampled and analyzed for VOCs, SVOCs (and PAH_{34}), metals, and cyanide. In addition, 4 near site sediment core locations and 4 background locations were sampled and analyzed for pesticides, herbicides, PCBs. Concentrations of all constituents detected in the sediments adjacent to the Site were similar to or lower than the concentrations detected in the sediment samples collected at the background locations. Comparison of the results for the chemical analysis of sediment samples collected in Westchester Creek adjacent to the Site as well as upstream of the Site (background) as part of this Sediment Investigation indicates that there are no significant site-related MGP- or non-MGP impacts to sediments in Westchester Creek.

Objective 2 was met by performing observations during sediment probing activities at 52 near site locations and by collecting and processing 20 near site sediment cores. Sheens were observed during sediment probing activities at a few locations near the site, as well as in a few background locations. However, there were no visual observations of NAPLs, staining or sheens within the sediment cores or elevated PID measurements in the majority of the near site sediment cores. Samples were collected at locations where sheens were observed during probing activities, but visual and chemical data do not support that the sheens were associated with site-related MGP- or non-MGP-related residuals. Based on these observations, site-related MGP- or non-MGP-related residuals are not present in the sediments in Westchester Creek adjacent to the Site.

Objective 3 was met by comparing the results of the chemical analysis (VOCs, SVOCs, PAH_{34}, metals, pesticides, herbicides, PCBs and cyanide) of the sediment samples to applicable NYSDEC SCGs. Although certain SVOCs, metals, pesticides, and PCBs were observed above screening levels, the screening levels were exceeded in both near site and background samples. Furthermore, the concentrations in sediments adjacent to the Site were similar to or lower than those concentrations detected in the sediment samples collected at the background locations.

The data collected during the implementation of this sediment investigation supports a conclusion that the former Unionport Works Site is not a significant source of MGP or non-MGP related impacts to sediment in Westchester Creek. Furthermore, the concentrations of constituents in the sediment in Westchester Creek adjacent to the Site are similar to or lower than the concentrations in the background sediments. As such, no further investigation or remedial considerations are necessary for Westchester Creek.

Based on the findings of the Westchester Creek sediment investigation, no further action in connection with Westchester Creek adjacent to the former Unionport Works Site is recommended.

5. References

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ARCADIS

Tables

Table 2-1
Field Sample and Analytical Program Summary

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

	Chemical Analyses[1]						Inorganics			Physical Analysis	
Sampling Location ID	TCL VOCs SW846 Method 8260)	PAH_{34} SW846 Method 8270	TCL SVOCs (USEPA SW846 Method 8270)	Pesticides SW846 Method 8081A)	Herbicides (USEPA SW846 Method 8151A)	PCBs SW846 Method 8082)	TAL Metals USEPA SW846 Method 6010	Mercury SW846 Method 7470	Cyanide SW846 Method 9010	TOC Lloyd Kahn	Grain Size (ASTM Method D422/D1140)
BG-01	X	X	X	X	X	X	X	X	X	X	X
BG-02	X	X	X				X	X	X	X	X
BG-03	X	X	X				X	X	X	X	X
BG-04	X	X	X				X	X	X	X	X
BG-05	X	X	X				X	X	X	X	X
BG-06	X	X	X				X	X	X	X	X
BG-07	X	X	X				X	X	X	X	X
BG-08	X	X	X				X	X	X	X	X
BG-09	X	X	X				X	X	X	X	X
BG-10	X	X	X	X	X	X	X	X	X	X	X
BG-11	X	X	X				X	X	X	X	X
BG-12	X	X	X				X	X	X	X	X
BG-13	X	X	X				X	X	X	X	X
BG-14	X	X	X	X	X	X	X	X	X	X	X
BG-15	X	X	X				X	X	X	X	X
BG-16	X	X	X				X	X	X	X	X
BG-17	X	X	X				X	X	X	X	X
BG-18	X	X	X				X	X	X	X	X
BG-19	X	X	X	X	X	X	X	X	X	X	X
BG-20	X	X	X				X	X	X	X	X
BG-21	X	X	X				X	X	X	X	X
SD-20	X	X	X				X	X	X	X	X
SD-21	X	X	X	X	X	X	X	X	X	X	X
SD-22	X	X	X				X	X	X	X	X
SD-23	X	X	X				X	X	X	X	X
SD-23 (8.0 - 9.0)	X	X	X				X	X	X	X	X
SD-24	X	X	X				X	X	X	X	X
SD-24 (8.0 - 9.0)	X	X	X				X	X	X	X	X
SD-25	X	X	X				X	X	X	X	X

Table 2-1
Field Sample and Analytical Program Summary

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

	Chemical Analyses[1]						Inorganics			Physical Analysis	
Sampling Location ID	TCL VOCs SW846 Method 8260)	PAH_{34} SW846 Method 8270	TCL SVOCs (USEPA SW846 Method 8270)	Pesticides SW846 Method 8081A)	Herbicides (USEPA SW846 Method 8151A)	PCBs SW846 Method 8082)	TAL Metals USEPA SW846 Method 6010	Mercury SW846 Method 7470	Cyanide SW846 Method 9010	TOC Lloyd Kahn	Grain Size (ASTM Method D422/D1140)
SD-25 (7.9 - 8.9)	X	X	X				X	X	X	X	X
SD-26	X	X	X				X	X	X	X	X
SD-27	X	X	X				X	X	X	X	X
SD-27 (7.0 - 8.0)	X	X	X				X	X	X	X	X
SD-28	X	X	X	X	X	X	X	X	X	X	X
SD-28 (6.0 - 7.0)	X	X	X				X	X	X	X	X
SD-29	X	X	X	X	X	X	X	X	X	X	X
SD-30	X	X	X				X	X	X	X	X
SD-30 (8.5 - 9.5)	X	X	X				X	X	X	X	X
SD-31	X	X	X				X	X	X	X	X
SD-31 (11.5 - 12.5)	X	X	X				X	X	X	X	X
SD-32	X	X	X				X	X	X	X	X
SD-33	X	X	X	X	X	X	X	X	X	X	X
SD-33 (11.5 - 12.5)	X	X	X				X	X	X	X	X
SD-34	X	X	X				X	X	X	X	X
SD-34 (9.0 - 10.0)	X	X	X				X	X	X	X	X
SD-35	X	X	X				X	X	X	X	X
SD-35 (4.0 - 5.0)	X	X	X				X	X	X	X	X
SD-36	X	X	X				X	X	X	X	X
SD-36 (13.8 - 14.8)	X	X	X				X	X	X	X	X
SD-37	X	X	X				X	X	X	X	X
SD-37 (6.0 - 7.0)	X	X	X				X	X	X	X	X
SD-38	X	X	X				X	X	X	X	X
SD-38 (7.0 - 8.0)	X	X	X				X	X	X	X	X
SD-39	X	X	X				X	X	X	X	X
SD-39 (9.5 - 10.5)	X	X	X				X	X	X	X	X

Notes:
[1] Surface sediment samples (0 - 0.5 feet) were collected at all sample locations for chemical analyses. Subsurface Sediment samples were collected from select locatoins (depths indicated in parentheses) at sample locations SD-23, SD-25, SD-27, SD-28, SD- 30, SD-31, and SD-33 through SD-39 based on lithology of the recovered sediment core.

ASTM = American Society for Testing and Materials
PAH_{34} = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
SVOC = semi-volatile organic compoun
TAL = Target Analyte List
TCL = target compound list
TOC = total organic carbon
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound

Table 3-1
Summary of Field Reconnaissance

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Date	Observation
High Tide Reconnaissance	
5/2/2011	Observed 3 discharge pipes at bulk oil facility on west side of Westchester Creek (no located). SPDES Permit Outfall #1 (0087874-001).
	No flow noticed from piping/outfalls.
	General land use consists of industrial businesses on the west side of the Creek. The east side of the Creek is predominantly bordered by vegetation and highway. A Citgo gas station is located on the east side upstream of the Site.
	A marina is located on the west side of Westchester Creek upstream of the Site.
	No stressed vegetation noticed.
	Bank materials on the west side of the Creek consist of sheet piles, Metro Marina, and concrete headwalls.
	No NAPL seeps, staining, sheens or odor noticed.
	Various and numerous debris (garbage) was noticed along eastern side of the Creek. Debris along the western side of the Creek includes tires, scrap iron, etc.
	Surface water usage was predominantly industrial with some recreational boating from Metro Marina. No other boats observed on the Creek.
	Background locations were chosen downstream of the bulk oil facility near the headwaters to approximately 206 feet upstream of the Site.
5/3/2011	Observed a 4-inch PVC discharge to the Creek from the Citgo gas station.
Low Tide Reconnaissance	
5/4/2011	Rainfall all day.
	Flow was observed from the majority of outfalls to the Creek.
	No sheens or NAPL seeps were evident from any outfalls to the Creek.
	Observed 3 additional outfalls/pipes exposed during low tide.
	Trace sheens were observed on the Creek at low tide.
	Metro Marina on the west bank of the Creek had numerous sheens along the Creek edge.
	Fuel/oil barge brought upstream to bulk oil facility near the headwaters.
	Vegetation, land use, and bank materials are similar to high tide reconnaissance with the exception of exposed sunken barge/boats on west bank just south of Metro Marina and exposed car remnants (motor, body, etc.) on the east bank near the bridge overpass.

Table 3-2
Sediment Probing Summary

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Probing Location ID	Coordinates		Water Depth (ft)	Probing Depth (ft bss)	Observations/Notes
	Northing	Easting			
BGP-01	730693.2	674865.1	18.5	10	Very Loose Silt, Slight Sheen
BGP-01A	730662.4	674858.7	19	12	Loose Silt
BGP-02	730710.8	674793.4	15	10.5	Loose Silt Over Rock
BGP-03	730715.7	674908.4	10	10	Loose Silt, Trace Gravel, Loose Sand, Trace Sheen
BGP-03A	730664.5	674907.7	11	2.3	Loose Silt
BGP-04	730418.6	674809.4	12.5	11.5	Gravel, Loose Silt
BGP-05	730431.2	674870.3	21	10	Loose Silt, Gravel
BGP-06	730433.7	674924.7	9	10	Gravel, Loose Silt, Clay
BGP-07	730047.8	674931.2	19	10	Loose Silt
BGP-08	730044.2	674872.8	19	11	Loose Silt
BGP-09	730081.3	674966.7	5.5	10	Loose Silt, Stiff Bottom
BGP-09A	730114.7	674958.6	6	11	Loose Silt
BGP-10	729704.4	674964.8	19	10	Gravel, Loose Silt, Trace Sheen
BGP-10A	729665.2	674962.7	19.6	10	Loose Silt
BGP-11	729706.0	674888.0	12	15.5	Loose Silt, Gravel, Hard Bottom
BGP-12	729728.5	675014.5	6	8	Loose Silt, Stiff Clay
BGP-13	729320.9	674930.4	19.5	4.5	Loose Silt, Tight Sand
BGP-14	729372.4	674853.4	6.5	6	Gravel, Silt, Stiff Bottom
BGP-15	729323.8	675007.4	12	12	Silt, Gravel, Stiff Bottom
BGP-16	728909.9	674690.9	21	8	Loose Silt Over Sand
BGP-17	728956.4	674651.4	13	12	Loose Silt, Stiff Bottom
BGP-18	728879.7	674735.0	9	9	Loose Silt, Stiff Bottom
BGP-19	728503.8	674309.0	20	8.5	Loose Silt Over Rock
BGP-20	728549.0	674271.8	10	13	Loose Silt, Gravel, Stiff Botom
BGP-21	728467.9	674363.0	9	8	Loose Silt Over Stiff Bottom
SP-01	727641.4	673939.7	0.2	0.2	Sand, Gravel, Cobbles
SP-02	727652.6	673979.0	10.8	3.7	Loose Silt, Gravel, Rock
SP-03	727669.4	674040.6	14.6	6.6	Loose Silt, Gravel, Rock
SP-04	727679.9	674109.3	0.1	10.4	Loose Silt, Trace Sand, Gravel
SP-05	727783.2	673910.7	2.1	1.4	Sand, Gravel, Cobbles
SP-06	727770.2	673959.6	11.3	7.2	Loose Silt, Rock, Slight Sheen
SP-07	727790.1	674011.7	16.5	7.5	Loose Silt, Hard Bottom
SP-08	727788.1	674079.8	5.0	7.0	Loose Silt, Trace Gravel, Stiff Clay
SP-09	727885.3	673914.4	7.3	9.3	Loose Silt, Gravel Bottom

Table 3-2
Sediment Probing Summary

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Probing Location ID	Coordinates		Water Depth (ft)	Probing Depth (ft bss)	Observations/Notes
	Northing	Easting			
SP-10	727864.6	673960.6	14.9	6.9	Loose Silt Over Rock, Trace Sheen
SP-11	727855.5	674016.4	20.5	7.4	Loose Silt, Rock
SP-12	727840.4	674064.7	12.0	10.0	Silt, Trace Gravel, Stiff Bottom
SP-13	727981.1	673937.0	8.5	10.0	Loose Silt Over Clay, Hard Bottom
SP-14	727964.5	673985.9	17.7	9.6	Loose Silt, Sand
SP-15	727953.5	674035.3	15.1	11.1	Loose Silt, Rock
SP-16	727940.1	674084.6	14.0	12.0	Loost Silt, Trace Gravel, Stiff Bottom
SP-17	728028.8	673950.6	15.0	2.0	Loose Silt, Rock
SP-18	728018.3	674001.5	17.6	9.9	Loose Silt, Sand and Rock
SP-19	728003.2	674049.7	15.4	13.6	Loose Silt, Clay
SP-20	727991.8	674096.8	15.8	14.2	Loose Silt, Clay
SP-21	728077.4	673964.9	15.0	3.0	Loose Silt, Hard Bottom
SP-22	728064.5	674014.5	17.9	12.1	Loose Silt, Sand
SP-23	728051.8	674062.4	15.6	13.4	Loose Silt, Clay
SP-24	728033.5	674110.9	14.3	14.0	Loose Silt, Clay
SP-25	728125.8	673976.9	12.0	7.0	Gravel Over Silt, Hard Bottom
SP-26	728112.0	674029.2	17.4	10.6	Loose Silt, Sand
SP-27	728096.8	674073.2	16.0	11.3	Loose Silt, Sand
SP-28	728085.4	674122.4	14.2	15.8	Loose Silt, Clay
SP-29	728174.9	673994.3	9.4	6.5	Loose Silt Over Gravel, Trace Sheen
SP-30	728160.4	674035.2	16.2	8.3	Loose Silt, Rock
SP-31	728149.4	674087.5	16.3	7.2	Loose Silt, Sand, Gravel
SP-32	728135.6	674137.1	13.8	15.2	Loose Silt, Clay
SP-33	728221.4	674000.5	6.0	1.5	Some Gravel Over Rock
SP-34	728213.3	674051.8	14.8	8.5	Loose Silt, Sand
SP-35	728195.7	674100.3	15.3	6.7	Loose Silt, Sand
SP-36	728181.6	674147.1	15.0	12.3	Loose Silt, Sand
SP-37	728271.0	674026.1	8.3	7.2	Silt, Gravel, Hard Bottom
SP-38	728251.8	674071.1	9.1	9.0	Loose Silt, Sand
SP-39	728239.9	674116.5	15.8	5.2	Loose Silt, Sand
SP-40	728226.8	674167.6	15.8	11.2	Loose Silt, Hard Bottom
SP-41	728357.5	674067.2	4.4	1.1	Silt Between Cobble, Rock
SP-42	728345.9	674118.0	8.5	10.2	Loose Silt, Tight Sand
SP-43	728330.2	674164.5	16.5	4.5	Loose Silt, Sand
SP-44	728317.5	674217.2	15.1	8.1	Loose Silt, Sand, Trace Sheen

Table 3-2
Sediment Probing Summary

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Probing Location ID	Coordinates		Water Depth (ft)	Probing Depth (ft bss)	Observations/Notes
	Northing	Easting			
SP-45	728442.2	674121.4	5.2	7.9	Loose Silt, Stiff Clay
SP-46	728428.4	674172.7	7.3	10.2	Loose Silt, Tight Sand
SP-47	728418.6	674221.0	15.0	6.5	Loose Silt, Sand
SP-48	728397.5	674266.3	15.4	8.1	Loose Silt, Sand
SP-49	727524.3	674000.2	10.4	6.7	Silt, Gravel, Sand
SP-50	727530.3	674029.5	19.0	4.1	Silt, Sand, Trace Gravel
SP-51	727536.4	674058.9	18.0	4.5	Silt, Sand
SP-52	727542.4	674088.3	9.0	12.7	Loose Silt, Clay, Hard Bottom

Notes:

1. Coordinates are based on the North American Datum of 1983 - State Plane New York Long Island.
2. Elevations are based on the North American Vertical Datum of 1988.
3. Coordinates and elevations were obtained using global positioning system methods.
4. Sediment probe locations are shown on Figures 2-1 and 2-2.

ft = feet

bss = below sediment surface

Table 3-3
Grain Size Results

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:		BG-01	BG-02	BG-03	BG-04	BG-05	BG-06	BG-07
Sample Depth(Feet):		0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	Units	05/17/11	05/17/11	05/17/11	05/16/11	05/16/11	05/16/11	05/17/11
Particle Size								
Clay	%	11.3	16.9	10.1	13.8	14.5	13.6	10.6 [12.1]
Coarse Sand	%	0.1	2	3.3	0.7	0.4	0.6	0.2 [0.5]
Fine Sand	%	19.3	19.5	27	11.8	11.6	16.6	8.9 [8.8]
Gravel	%	0.4	2.2	6	0	0.4	0	0.2 [0.1]
Medium Sand	%	2.2	4.9	15.4	2.6	1.6	5.2	4.1 [3.7]
Sand	%	21.6	26.4	45.7	15.1	13.6	22.4	13.2 [13]
Silt	%	66.7	54.5	38.2	71.1	71.5	64	76 [74.8]
Sieve Size 3 inch	% passing	100	100	100	100	100	100	100 [100]
Sieve Size 2 inch	% passing	100	100	100	100	100	100	100 [100]
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100	100 [100]
Sieve Size 1 inch	% passing	100	100	100	100	100	100	100 [100]
Sieve Size 0.75 inch	% passing	100	100	100	100	100	100	100 [100]
Sieve Size 0.375 inch	% passing	100	99.2	94.9	100	100	100	100 [100]
Sieve Size #200	% passing	99.6	97.8	94	100	99.6	100	99.8 [99.9]
Sieve Size #100	% passing	99.5	95.8	90.7	99.3	99.2	99.4	99.6 [99.4]
Sieve Size #80	% passing	99	94.3	83.3	98	98.9	97	98.2 [98.2]
Sieve Size #60	% passing	97.3	90.9	75.3	96.7	97.6	94.2	95.5 [95.7]
Sieve Size #40	% passing	93.9	85.8	66.5	94.1	95.4	90	92.4 [92.6]
Sieve Size #20	% passing	90.6	82.1	60.8	91.9	93.5	86.9	90.6 [91]
Sieve Size #10	% passing	88	79.6	57.7	90.5	91.9	84.7	89.6 [89.9]
Sieve Size #4	% passing	78	71.4	48.3	84.9	86	77.6	86.6 [86.9]
Hydrometer Reading 1	% passing	62.2	64.7	35.5	69.2	72.7	60.8	67.2 [69.9]
Hydrometer Reading 2	% passing	48.5	49.5	25	49.2	59.7	44.3	60.9 [61.4]
Hydrometer Reading 3	% passing	11.3	19	14.6	14.2	18.8	18.3	46.8 [23]
Hydrometer Reading 4	% passing	11.3	16.9	11.6	13.8	14.5	15.9	21.6 [14.4]
Hydrometer Reading 5	% passing	11.3	16.9	10.1	13.8	14.5	13.6	10.6 [12.1]
Hydrometer Reading 6	% passing	9.1	12.3	7	10.4	12	11	7.3 [12.1]
Hydrometer Reading 7	% passing	7	12.2	6.8	10.4	9.9	10.8	7.3 [9.8]
Solids								
Percent Moisture	%	71.2	73	57.7	75.3	71.2	71.9	73.9 [75]
Percent Solids	%	28.8	27	42.3	24.7	28.8	28.1	26.1 [25]

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID:		BG-08	BG-09	BG-10	BG-11	BG-12	BG-13	BG-14
Sample Depth(Feet):		0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	Units	05/17/11	05/17/11	05/17/11	05/17/11	05/17/11	05/16/11	05/16/11
Particle Size								
Clay	%	11.2	19.2	13.2	12.7	11.9	9.5	8.2
Coarse Sand	%	0	5.6	0.2	0.2	6.4	0	6.6
Fine Sand	%	17.3	17	4.5	9.6	6.6	5.9	33.6
Gravel	%	0	6.5	0.5	0	28.8	0	3.2
Medium Sand	%	2.7	5.5	1.7	4.9	7.1	2.3	31.5
Sand	%	20	28.1	6.4	14.7	20.1	8.2	71.7
Silt	%	68.8	46.2	79.9	72.6	39.2	82.3	16.9
Sieve Size 3 inch	% passing	100	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100	100	100	86.6	100	100
Sieve Size 0.375 inch	% passing	100	100	100	100	84.3	100	100
Sieve Size #200	% passing	100	93.5	99.5	100	71.2	100	96.8
Sieve Size #100	% passing	100	87.9	99.3	99.8	64.8	100	90.2
Sieve Size #80	% passing	99.7	87.1	98.7	97.8	61.7	99.9	78.8
Sieve Size #60	% passing	97.3	82.4	97.6	94.9	57.7	97.7	58.7
Sieve Size #40	% passing	96.2	75.6	96.3	92.2	54.6	95.6	41.4
Sieve Size #20	% passing	93.4	71.6	95.5	90.4	53.2	94.6	34.7
Sieve Size #10	% passing	88.6	69.6	94.7	88.8	52.5	94.2	31.6
Sieve Size #4	% passing	80	65.4	93.1	85.3	51.1	91.8	25.1
Hydrometer Reading 1	% passing	64.6	53.9	83	74	35.1	72.9	25.9
Hydrometer Reading 2	% passing	52.8	39.1	76	58	30	62.4	21.5
Hydrometer Reading 3	% passing	15.3	25.9	36.6	18	16.9	16.1	15
Hydrometer Reading 4	% passing	13.3	22.6	15.7	15.3	13.9	11.6	10.6
Hydrometer Reading 5	% passing	11.2	19.2	13.2	12.7	11.9	9.5	8.2
Hydrometer Reading 6	% passing	9.2	15.9	13.2	12.5	9.8	7	5.8
Hydrometer Reading 7	% passing	7.1	10.8	10.6	9.6	7.7	7	4.8
Solids								
Percent Moisture	%	76.1	78.6	73.1	71.2	58.7	68.5	47.4
Percent Solids	%	23.9	21.4	26.9	28.8	41.3	31.5	52.6

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	Units	BG-15 0 - 0.5 05/16/11	BG-16 0 - 0.5 05/16/11	BG-17 0 - 0.5 05/16/11	BG-18 0 - 0.5 05/16/11	BG-19 0 - 0.5 05/17/11	BG-20 0 - 0.5 05/17/11	BG-21 0 - 0.5 05/17/11
Particle Size								
Clay	%	8.2	16.2 [11.7]	11.2	15.6	15.2	11.4	16.1
Coarse Sand	%	0.2	0.2 [0.3]	0	2	0	0	0
Fine Sand	%	4.2	2.9 [2.6]	2.5	12.8	2.4	2.2	5.9
Gravel	%	0	0 [0]	0	2.8	2	0	0
Medium Sand	%	1.3	1 [0.4]	1	3.3	1.3	0.6	1.8
Sand	%	5.7	4.1 [3.3]	3.5	18.1	3.7	2.8	7.7
Silt	%	86.1	79.7 [85]	85.3	63.5	79.1	85.8	76.2
Sieve Size 3 inch	% passing	100	100 [100]	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100 [100]	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100 [100]	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100 [100]	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100 [100]	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100	100 [100]	100	100	98	100	100
Sieve Size #200	% passing	100	100 [100]	100	97.2	98	100	100
Sieve Size #100	% passing	99.8	99.8 [99.7]	100	95.2	98	100	100
Sieve Size #80	% passing	99.7	99.7 [99.7]	99.9	94.3	97.6	100	99.4
Sieve Size #60	% passing	98.5	98.8 [99.3]	99	91.9	96.7	99.4	98.2
Sieve Size #40	% passing	97.1	98 [98.4]	98.2	88.3	96	98.7	96.9
Sieve Size #20	% passing	96.3	97.6 [97.9]	97.9	86.1	95.6	98.3	95.9
Sieve Size #10	% passing	96	97.2 [97.7]	97.6	84.7	95.3	98.1	95.2
Sieve Size #4	% passing	94.3	95.9 [96.7]	96.5	79.1	94.3	97.2	92.3
Hydrometer Reading 1	% passing	74.1	92.6 [87.8]	93.6	73.7	86.4	88	81.9
Hydrometer Reading 2	% passing	60.1	79.4 [77.3]	78.7	56.9	82.7	79.5	64.4
Hydrometer Reading 3	% passing	13.3	24.1 [20]	21.5	25.6	71.8	36.9	20.5
Hydrometer Reading 4	% passing	13.3	18.9 [14.8]	13.7	18	42.6	11.4	16.1
Hydrometer Reading 5	% passing	8.2	16.2 [11.7]	11.2	15.6	15.2	11.4	16.1
Hydrometer Reading 6	% passing	7.8	16.2 [8.7]	7.9	10.4	9.4	8.9	11.3
Hydrometer Reading 7	% passing	7.8	16.2 [8.7]	7.9	10.4	9.4	6.8	11.3
Solids								
Percent Moisture	%	74.2	77.2 [76.4]	76.8	70	74.9	73.7	71.4
Percent Solids	%	25.8	22.8 [23.6]	23.2	30	25.1	26.3	28.6

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: / Sample Depth(Feet): / Date Collected:	Units	SD-20 0 - 0.5 05/13/11	SD-21 0 - 0.5 05/13/11	SD-22 0 - 0.5 05/13/11	SD-23 0 - 0.5 05/10/11	SD-23 8 - 9 05/12/11	SD-24 0 - 0.5 05/10/11	SD-24 8 - 9 05/12/11
Particle Size								
Clay	%	13.2	16.6	20.8	10.5	45.3	14.2	4.2
Coarse Sand	%	2	0.7	1.2	0	0.1	0	4.1
Fine Sand	%	5.1	3.4	4.5	1.8	3.7	0.6	35.2
Gravel	%	3.9	0	0	0	0	0	5.5
Medium Sand	%	2.1	0.7	1	0.1	1.9	0	36.4
Sand	%	9.2	4.8	6.7	1.9	5.7	0.6	75.7
Silt	%	73.7	78.6	72.5	87.6	49	85.2	14.6
Sieve Size 3 inch	% passing	100	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100	100	100	100	100	100	97.5
Sieve Size #200	% passing	96.1	100	100	100	100	100	94.5
Sieve Size #100	% passing	94.1	99.3	98.8	100	99.9	100	90.4
Sieve Size #80	% passing	93.2	99	98.3	99.9	99.2	100	79.5
Sieve Size #60	% passing	92	98.6	97.8	99.9	98	100	54
Sieve Size #40	% passing	91.1	98.1	97.1	99.7	97.3	99.9	35.4
Sieve Size #20	% passing	89.8	97.2	95.6	99.3	96.1	99.8	25.6
Sieve Size #10	% passing	89.3	96.9	95.1	99.1	95.9	99.7	23.8
Sieve Size #4	% passing	86.9	95.2	93.3	98.1	94.3	99.4	18.8
Hydrometer Reading 1	% passing	65.1	75.9	70.2	87.9	77.5	91.6	10.9
Hydrometer Reading 2	% passing	54	63.7	57.9	77.7	68.6	83.9	8.7
Hydrometer Reading 3	% passing	17.2	23	31.3	36.8	59.6	52.9	6.4
Hydrometer Reading 4	% passing	16.9	19	25.2	14.5	52.5	21.9	5.1
Hydrometer Reading 5	% passing	13.2	16.6	20.8	10.5	45.3	14.2	4.2
Hydrometer Reading 6	% passing	11.4	12.5	18.7	8.5	32.5	11.9	2.3
Hydrometer Reading 7	% passing	9.5	10.5	14.6	8.5	21.8	11.9	1.9
Solids								
Percent Moisture	%	72.3	71.9	72.4	74.1	42.6	73.6	12.9
Percent Solids	%	27.7	28.1	27.6	25.9	57.4	26.4	87.1

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: / Sample Depth(Feet): / Date Collected:	Units	SD-25 0 - 0.5 05/10/11	SD-25 7.9 - 8.9 05/12/11	SD-26 0 - 0.5 05/12/11	SD-27 0 - 0.5 05/10/11	SD-27 7 - 8 05/12/11	SD-28 0 - 0.5 05/10/11	SD-28 6 - 7 05/12/11
Particle Size								
Clay	%	13	11.7	11.2	7.5	12.3	9.1	47.3
Coarse Sand	%	0	0.4	0	0	3.5	0	0.4
Fine Sand	%	6.2	42.5	0.8	1.7	31.2	1.3	5.3
Gravel	%	0	0	0	0	4.1	0	0
Medium Sand	%	3.2	15.6	0.5	0.2	25.7	0	2.3
Sand	%	9.4	58.5	1.3	1.9	60.4	1.3	8
Silt	%	77.6	29.8	87.5	90.6	23.2	89.6	44.7
Sieve Size 3 inch	% passing	100	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100	100	100	100	100	100	100
Sieve Size #200	% passing	100	100	100	100	95.9	100	100
Sieve Size #100	% passing	100	99.6	100	100	92.4	100	99.6
Sieve Size #80	% passing	99.7	96.5	99.7	99.9	83.2	100	98.9
Sieve Size #60	% passing	96.8	84	99.5	99.8	66.7	100	97.3
Sieve Size #40	% passing	94.6	68.7	99.4	99.5	53.5	99.8	96
Sieve Size #20	% passing	93.4	55.6	99.2	99	44.3	99.5	94.6
Sieve Size #10	% passing	92.7	51.7	99.2	98.8	42.2	99.3	94.2
Sieve Size #4	% passing	90.6	41.5	98.7	98.1	35.5	98.7	92
Hydrometer Reading 1	% passing	63.9	27.3	80.4	89.2	22.9	73.7	77.8
Hydrometer Reading 2	% passing	56.6	22.1	69.9	80.2	19.9	63.5	68.9
Hydrometer Reading 3	% passing	18.5	16.9	19.6	54.6	16	32.9	59.9
Hydrometer Reading 4	% passing	14.8	14.1	13.3	22	13.8	12.5	56.3
Hydrometer Reading 5	% passing	13	11.7	11.2	7.5	12.3	9.1	47.3
Hydrometer Reading 6	% passing	13	8.2	10.8	7.5	9.1	8.8	34.4
Hydrometer Reading 7	% passing	11.2	5.3	10.8	7.5	6.9	7.1	23.7
Solids								
Percent Moisture	%	71.4	17.6	74.6	72.3	21.6	72.1	45.6
Percent Solids	%	28.6	82.4	25.4	27.7	78.4	27.9	54.4

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: / Sample Depth(Feet): / Date Collected:	Units	SD-29 0 - 0.5 05/12/11	SD-30 0 - 0.5 05/10/11	SD-30 8.5 - 9.5 05/12/11	SD-31 0 - 0.5 05/10/11	SD-31 11.5 - 12.5 05/12/11	SD-32 0 - 0.5 05/10/11	SD-33 0 - 0.5 05/10/11
Particle Size								
Clay	%	10.3 [13.5]	9.9	36.8	10.3	6.2	11.2	10.9
Coarse Sand	%	1.9 [0]	0	0	0	2.3	0	0
Fine Sand	%	1.3 [0.6]	1.1	7.6	1.2	41.3	1.8	0.7
Gravel	%	1.7 [0]	0	0	0	0.3	0	0
Medium Sand	%	1.6 [0]	0.8	2.7	0	30.3	0.3	0
Sand	%	4.8 [0.6]	1.9	10.3	1.2	73.9	2.1	0.7
Silt	%	83.2 [85.9]	88.2	52.9	88.5	19.6	86.7	88.4
Sieve Size 3 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100 [100]	100	100	100	100	100	100
Sieve Size #200	% passing	98.3 [100]	100	100	100	99.7	100	100
Sieve Size #100	% passing	96.4 [100]	100	100	100	97.4	100	100
Sieve Size #80	% passing	95.4 [100]	99.3	99.1	100	87	99.9	100
Sieve Size #60	% passing	94.8 [100]	99.2	97.3	100	67.1	99.7	100
Sieve Size #40	% passing	94.4 [99.9]	99.1	95.7	99.8	51.8	99.3	99.9
Sieve Size #20	% passing	93.9 [99.8]	98.8	93.9	99.5	39.8	98.9	99.7
Sieve Size #10	% passing	93.9 [99.8]	98.7	93.4	99.4	36.3	98.6	99.6
Sieve Size #4	% passing	93.5 [99.4]	98.1	89.7	98.8	25.8	97.9	99.3
Hydrometer Reading 1	% passing	68.4 [90.9]	90.2	67.2	89.7	15.1	80.8	85
Hydrometer Reading 2	% passing	60.7 [81.5]	78.8	57.7	80	11.4	66	79.7
Hydrometer Reading 3	% passing	21.8 [62.7]	37.5	48.2	51	8.6	17.6	65.6
Hydrometer Reading 4	% passing	10.3 [32.3]	12.2	40.6	16.1	7.2	13.3	32.1
Hydrometer Reading 5	% passing	10.3 [13.5]	9.9	36.8	10.3	6.2	11.2	10.9
Hydrometer Reading 6	% passing	8 [11.6]	9.6	25.1	8.4	4.3	8.8	7.4
Hydrometer Reading 7	% passing	6.1 [11.6]	9.6	15.9	8.1	3.4	8.8	7.4
Solids								
Percent Moisture	%	74.5 [74.9]	70.9	40	72.6	13.6	73.8	71.7
Percent Solids	%	25.5 [25.1]	29.1	60	27.4	86.4	26.2	28.3

Table 3-3
Grain Size Results

Site Characteriztion Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: / Sample Depth(Feet): / Date Collected:	Units	SD-33 10.5 - 11.5 05/12/11	SD-34 0 - 0.5 05/09/11	SD-34 9 - 10 05/09/11	SD-35 0 - 0.5 05/10/11	SD-35 4 - 5 05/12/11	SD-36 0 - 0.5 05/10/11	SD-36 13.8 - 14.8 05/12/11
Particle Size								
Clay	%	17.7	12.5	2.3	16.5	50.4	15.6	1.5
Coarse Sand	%	0	0	0	7.9	0	0	0
Fine Sand	%	2.3	2.9	81.3	9.7	1.6	1.8	73.2
Gravel	%	0	0	0	27.9	0.7	0	0
Medium Sand	%	0.2	1	2.7	10.3	0.8	0.7	0.7
Sand	%	2.5	3.9	84	27.9	2.4	2.5	73.9
Silt	%	79.8	83.6	13.7	27.7	46.5	81.9	24.7
Sieve Size 3 inch	% passing	100	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100	100	100	85.4	100	100	100
Sieve Size #200	% passing	100	100	100	72.1	99.3	100	100
Sieve Size #100	% passing	100	100	100	64.2	99.3	100	100
Sieve Size #80	% passing	100	99.8	99.9	59.7	98.8	99.6	100
Sieve Size #60	% passing	99.8	99	97.3	53.9	98.5	99.3	99.3
Sieve Size #40	% passing	99.6	98.2	81.6	49	98.4	98.9	95.6
Sieve Size #20	% passing	99.3	97.7	61.1	47.1	98.1	98.5	80.4
Sieve Size #10	% passing	99.3	97.4	47.3	46.3	98	98.2	70.5
Sieve Size #4	% passing	97.5	96.1	16	44.2	96.9	97.5	26.1
Hydrometer Reading 1	% passing	84.6	84.3	5.8	37.3	84.3	91.8	8.4
Hydrometer Reading 2	% passing	67.5	75.3	4.3	31.4	77.2	85.2	5
Hydrometer Reading 3	% passing	45	34.9	3.1	25.4	66.5	54.8	2.8
Hydrometer Reading 4	% passing	33	12.5	2.7	19.5	57.6	19.9	2.3
Hydrometer Reading 5	% passing	17.7	12.5	2.4	16.5	50.4	15.6	1.5
Hydrometer Reading 6	% passing	7.1	12.5	2	12.1	35.9	13.4	0.5
Hydrometer Reading 7	% passing	2.3	10.1	1.6	7.7	25.2	11.2	0.5
Solids								
Percent Moisture	%	29.8	73.7 [75.3]	24.2	59.5	44.7	73.3	30.6
Percent Solids	%	70.2	26.3 [24.7]	75.8	40.5	55.3	26.7	69.4

Table 3-3
Grain Size Results

Site Characterization Report
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	Units	SD-37 0 - 0.5 05/09/11	SD-37 6 - 7 05/09/11	SD-38 0 - 0.5 05/17/11	SD-38 7 - 8 05/17/11	SD-39 0 - 0.5 05/17/11	SD-39 9.5 - 10.5 05/17/11
Particle Size							
Clay	%	12.8	-0.3	10.8	5.5	10.3	1.3
Coarse Sand	%	0	3.2	0	7.9	0	0
Fine Sand	%	1.7	71.9	2.2	35	3.1	78.3
Gravel	%	0	0.8	0	15.3	0	0
Medium Sand	%	0	23.2	0.4	18.2	1.9	18.3
Sand	%	1.7	98.3	2.6	61.1	5	96.6
Silt	%	85.5	1.2	86.6	18.1	84.7	2.1
Sieve Size 3 inch	% passing	100	100	100	100	100	100
Sieve Size 2 inch	% passing	100	100	100	100	100	100
Sieve Size 1.5 inch	% passing	100	100	100	100	100	100
Sieve Size 1 inch	% passing	100	100	100	100	100	100
Sieve Size 0.75 inch	% passing	100	100	100	100	100	100
Sieve Size 0.375 inch	% passing	100	100	100	90	100	100
Sieve Size #200	% passing	100	99.2	100	84.7	100	100
Sieve Size #100	% passing	100	96	100	76.8	100	100
Sieve Size #80	% passing	100	88.3	99.9	69.5	99.2	98.2
Sieve Size #60	% passing	100	72.8	99.6	58.6	98.1	81.7
Sieve Size #40	% passing	100	45.2	99.1	46.5	96.7	46
Sieve Size #20	% passing	99.7	24.8	98.7	39.2	96.2	25.9
Sieve Size #10	% passing	99.4	14.5	98.4	34.6	96	16.2
Sieve Size #4	% passing	98.3	0.9	97.4	23.6	95	3.4
Hydrometer Reading 1	% passing	83.9	0.1	83.4	16.3	79.6	1.3
Hydrometer Reading 2	% passing	72.4	-0.3	75.3	11.7	68	1.3
Hydrometer Reading 3	% passing	26.7	-0.3	35	8.7	29.5	1.3
Hydrometer Reading 4	% passing	17.3	-0.3	10.8	7.1	12.2	1.3
Hydrometer Reading 5	% passing	12.8	-0.3	10.8	5.5	10.3	1.3
Hydrometer Reading 6	% passing	10.5	-0.3	10.4	3.2	10	0.4
Hydrometer Reading 7	% passing	8.2	-0.3	6.4	0.9	10	0.4
Solids							
Percent Moisture	%	73.2	14.4	71.7	15	71.2	16.7
Percent Solids	%	26.8	85.6	28.3	85	28.8	83.3

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-01			BG-02			BG-03		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	84.0840	8.4084	4.7 U	75.6210	7.5621	5.0 U	67.7950	6.7795	3.2 UJ
1,2-Dichlorobenzene	120	12	11.0880	1.1088	4.7 U	9.9720	0.9972	5.0 U	8.9400	0.8940	3.2 UJ
1,3-Dichlorobenzene	120	12	11.0880	1.1088	4.7 U	9.9720	0.9972	5.0 U	8.9400	0.8940	3.2 UJ
1,4-Dichlorobenzene	120	12	11.0880	1.1088	4.7 U	9.9720	0.9972	5.0 U	8.9400	0.8940	3.2 UJ
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
2,4,5-Trichlorophenol	- -	- -	- -	- -	30 U	- -	- -	31 U	- -	- -	20 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
2,4-Dichlorophenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
2,4-Dimethylphenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
2,4-Dinitrophenol	- -	- -	- -	- -	30 U	- -	- -	31 U	- -	- -	20 U
2,4-Dinitrotoluene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
2,6-Dinitrotoluene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
2-Chloronaphthalene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
2-Chlorophenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
2-Methylnaphthalene	304	34	28.0896	3.1416	4.7 U	25.2624	2.8254	5.0 U	22.6480	2.5330	3.2 UJ
2-Methylphenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
2-Nitroaniline	- -	- -	- -	- -	12 U	- -	- -	12 U	- -	- -	7.9 UJ
2-Nitrophenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	5.7 U	- -	- -	6.1 U	- -	- -	3.9 UJ
3-Nitroaniline	- -	- -	- -	- -	12 U	- -	- -	12 U	- -	- -	7.9 UJ
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	30 U	- -	- -	31 U	- -	- -	20 U
4-Bromophenyl-phenylether	- -	140	- -	12.9360	4.7 U	- -	11.6340	5.0 U	- -	10.4300	3.2 UJ
4-Chloro-3-Methylphenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
4-Chloroaniline	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
4-Chlorophenyl-phenylether	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
4-Methylphenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
4-Nitroaniline	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
4-Nitrophenol	- -	- -	- -	- -	30 U	- -	- -	31 U	- -	- -	20 U
Acenaphthene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Acenaphthylene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Anthracene	986	107	91.1064	9.8868	4.7 U	81.9366	8.8917	5.0 U	73.4570	7.9715	3.2 UJ
Benzo(a)anthracene	94	12	8.6856	1.1088	2.8 J	7.8114	0.9972	3.1 J	7.0030	0.8940	1.6 J
Benzo(a)pyrene	- -	- -	- -	- -	3.1 J	- -	- -	3.1 J	- -	- -	1.8 J
Benzo(b)fluoranthene	- -	- -	- -	- -	4.3 J	- -	- -	4.4 J	- -	- -	2.4 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	2.2 J	- -	- -	2.1 J	- -	- -	1.2 J
Benzo(k)fluoranthene	- -	- -	- -	- -	1.8 J	- -	- -	1.9 J	- -	- -	0.88 J
Benzyl Alcohol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
bis(2-Chloroethyl)ether	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	18.4338	27	- -	16.5785	14	- -	14.8628	12 J
Butylbenzylphthalate	- -	- -	- -	- -	1.1 J	- -	- -	5.0 U	- -	- -	0.60 J
Carbazole	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Chrysene	- -	- -	- -	- -	3.9 J	- -	- -	3.6 J	- -	- -	1.9 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Dibenzofuran	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Diethylphthalate	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Dimethylphthalate	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Di-n-Butylphthalate	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Di-n-Octylphthalate	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Fluoranthene	- -	1,020	- -	94.2480	6.5	- -	84.7620	5.9	- -	75.9900	3.1 J
Fluorene	73	8	6.7452	0.7392	4.7 U	6.0663	0.6648	5.0 U	5.4385	0.5960	3.2 UJ
Hexachlorobenzene	9,081	5,570	839.0844	514.6680	4.7 U	754.6311	462.8670	5.0 U	676.5345	414.9650	3.2 UJ
Hexachlorobutadiene	55	5.5	5.0820	0.5082	4.7 U	4.5705	0.4571	5.0 U	4.0975	0.4098	3.2 UJ
Hexachlorocyclopentadiene	44	4.4	4.0656	0.4066	12 U	3.6564	0.3656	12 U	3.2780	0.3278	7.9 UJ
Hexachloroethane	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	2.1 J	- -	- -	2.1 J	- -	- -	1.2 J
Isophorone	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Naphthalene	258	30	23.8392	2.7720	4.7 U	21.4398	2.4930	5.0 U	19.2210	2.2350	3.2 UJ
Nitrobenzene	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
N-Nitrosodiphenylamine	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 UJ
Pentachlorophenol	100	40	9.2400	3.6960	12 U	8.3100	3.3240	12 U	7.4500	2.9800	7.9 U
Phenanthrene	- -	120	- -	11.0880	3.6 J	- -	9.9720	2.4 J	- -	8.9400	1.3 J
Phenol	- -	- -	- -	- -	4.7 U	- -	- -	5.0 U	- -	- -	3.2 U
Pyrene	8,775	961	810.8100	88.7964	5.6	729.2025	79.8591	5.4	653.7375	71.5945	2.8 J
Total PAHs	- -	- -	- -	- -	36 J	- -	- -	34 J	- -	- -	18 J
Total Other SVOCs	- -	- -	- -	- -	28 J	- -	- -	14	- -	- -	13 J
Total SVOCs	- -	- -	- -	- -	92 J	- -	- -	62 J	- -	- -	43 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	92,400	- -	- -	83,100	- -	- -	74,500

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (m

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-04			BG-05			BG-05[2]		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			Bottom Layer 0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	80.8080	8.0808	5.4 U	75.3480	7.5348	4.7 U	NA	NA	R
1,2-Dichlorobenzene	120	12	10.6560	1.0656	5.4 U	9.9360	0.9936	4.7 U	NA	NA	R
1,3-Dichlorobenzene	120	12	10.6560	1.0656	5.4 U	9.9360	0.9936	4.7 U	NA	NA	R
1,4-Dichlorobenzene	120	12	10.6560	1.0656	5.4 U	9.9360	0.9936	0.55 J	NA	NA	R
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2,4,5-Trichlorophenol	- -	- -	- -	- -	34 U	- -	- -	29 U	- -	- -	R
2,4,6-Trichlorophenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2,4-Dichlorophenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2,4-Dimethylphenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2,4-Dinitrophenol	- -	- -	- -	- -	34 U	- -	- -	29 U	- -	- -	R
2,4-Dinitrotoluene	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2,6-Dinitrotoluene	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2-Chloronaphthalene	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2-Chlorophenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2-Methylnaphthalene	304	34	26.9952	3.0192	5.4 U	25.1712	2.8152	0.33 J	NA	NA	R
2-Methylphenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
2-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	12 U	- -	- -	R
2-Nitrophenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
3,3'-Dichlorobenzidine	- -	- -	- -	- -	6.7 U	- -	- -	5.7 U	- -	- -	R
3-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	12 U	- -	- -	R
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	34 U	- -	- -	29 U	- -	- -	R
4-Bromophenyl-phenylether	- -	140	- -	12.4320	5.4 U	- -	11.5920	4.7 U	- -	NA	R
4-Chloro-3-Methylphenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
4-Chloroaniline	- -	- -	- -	- -	5.4 U	- -	- -	1.5 J	- -	- -	R
4-Chlorophenyl-phenylether	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
4-Methylphenol	- -	- -	- -	- -	5.4 U	- -	- -	0.46 J	- -	- -	R
4-Nitroaniline	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
4-Nitrophenol	- -	- -	- -	- -	34 U	- -	- -	29 U	- -	- -	R
Acenaphthene	- -	- -	- -	- -	5.4 U	- -	- -	0.47 J	- -	- -	R
Acenaphthylene	- -	- -	- -	- -	5.4 U	- -	- -	0.28 J	- -	- -	R
Anthracene	986	107	87.5568	9.5016	5.4 U	81.6408	8.8596	1.3 J	NA	NA	R
Benzo(a)anthracene	94	12	8.3472	1.0656	1.7 J	7.7832	0.9936	5.3 J	NA	NA	R
Benzo(a)pyrene	- -	- -	- -	- -	1.9 J	- -	- -	5.7 J	- -	- -	R
Benzo(b)fluoranthene	- -	- -	- -	- -	2.7 J	- -	- -	7.1 J	- -	- -	R
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.4 J	- -	- -	9.5 J	- -	- -	R
Benzo(k)fluoranthene	- -	- -	- -	- -	1.3 J	- -	- -	2.9 J	- -	- -	R
Benzyl Alcohol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
bis(2-Chloroethyl)ether	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	17.7156	18	- -	16.5186	68 J	- -	NA	R
Butylbenzylphthalate	- -	- -	- -	- -	5.4 U	- -	- -	2.0 J	- -	- -	R
Carbazole	- -	- -	- -	- -	5.4 U	- -	- -	0.55 J	- -	- -	R
Chrysene	- -	- -	- -	- -	2.6 J	- -	- -	7.4 J	- -	- -	R
Dibenzo(a,h)anthracene	- -	- -	- -	- -	5.4 U	- -	- -	3.7 J	- -	- -	R
Dibenzofuran	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Diethylphthalate	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Dimethylphthalate	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Di-n-Butylphthalate	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Di-n-Octylphthalate	- -	- -	- -	- -	5.4 U	- -	- -	7.0 J	- -	- -	R
Fluoranthene	- -	1,020	- -	90.5760	4.3 J	- -	84.4560	11 J	- -	NA	R
Fluorene	73	8	6.4824	0.7104	5.4 U	6.0444	0.6624	0.68 J	NA	NA	R
Hexachlorobenzene	9,081	5,570	806.3928	494.6160	5.4 U	751.9068	461.1960	4.7 U	NA	NA	R
Hexachlorobutadiene	55	5.5	4.8840	0.4884	5.4 U	4.5540	0.4554	4.7 U	NA	NA	R
Hexachlorocyclopentadiene	44	4.4	3.9072	0.3907	14 U	3.6432	0.3643	12 U	NA	NA	R
Hexachloroethane	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.3 J	- -	- -	8.9 J	- -	- -	R
Isophorone	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Naphthalene	258	30	22.9104	2.6640	5.4 U	21.3624	2.4840	0.48 J	NA	NA	R
Nitrobenzene	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
N-Nitrosodiphenylamine	- -	- -	- -	- -	5.4 U	- -	- -	0.38 J	- -	- -	R
Pentachlorophenol	100	40	8.8800	3.5520	14 U	8.2800	3.3120	12 U	NA	NA	R
Phenanthrene	- -	120	- -	10.6560	1.6 J	- -	9.9360	4.9 J	- -	NA	R
Phenol	- -	- -	- -	- -	5.4 U	- -	- -	4.7 U	- -	- -	R
Pyrene	8,775	961	779.2200	85.3368	4.2 J	726.5700	79.5708	17 J	NA	NA	R
Total PAHs	- -	- -	- -	- -	23 J	- -	- -	87 J	- -	- -	R
Total Other SVOCs	- -	- -	- -	- -	18	- -	- -	81 J	- -	- -	R
Total SVOCs	- -	- -	- -	- -	59 J	- -	- -	250 J	- -	- -	R
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	88,800	- -	- -	82,800	- -	- -	NA

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-06			BG-06[2] Bottom Layer			BG-07		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	70.5250	7.0525	9.6 UJ	NA	NA	4.8 UJ	67.89[58.70]	6.79[5.87	4.9 U [5.4 U]
1,2-Dichlorobenzene	120	12	9.3000	0.9300	9.6 UJ	NA	NA	4.8 UJ	8.95[7.74]	0.90[0.77]	4.9 U [5.4 U]
1,3-Dichlorobenzene	120	12	9.3000	0.9300	9.6 UJ	NA	NA	4.8 UJ	8.95[7.74]	0.90[0.77]	4.9 U [5.4 U]
1,4-Dichlorobenzene	120	12	9.3000	0.9300	9.6 UJ	NA	NA	4.8 UJ	8.95[7.74]	0.90[0.77]	4.9 U [5.4 U]
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
2,4,5-Trichlorophenol	- -	- -	- -	- -	60 UJ	- -	- -	30 U	- -	- -	31 U [34 U]
2,4,6-Trichlorophenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
2,4-Dichlorophenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
2,4-Dimethylphenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
2,4-Dinitrophenol	- -	- -	- -	- -	60 UJ	- -	- -	30 U	- -	- -	31 U [34 U]
2,4-Dinitrotoluene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
2,6-Dinitrotoluene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
2-Chloronaphthalene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
2-Chlorophenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
2-Methylnaphthalene	304	34	23.5600	2.6350	9.6 UJ	NA	NA	4.8 UJ	22.68[19.61]	2.54[2.19]	4.9 U [5.4 U]
2-Methylphenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
2-Nitroaniline	- -	- -	- -	- -	24 UJ	- -	- -	12 UJ	- -	- -	12 U [13 U]
2-Nitrophenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
3,3'-Dichlorobenzidine	- -	- -	- -	- -	12 UJ	- -	- -	5.9 UJ	- -	- -	6.0 U [6.6 U]
3-Nitroaniline	- -	- -	- -	- -	24 UJ	- -	- -	12 UJ	- -	- -	12 U [13 U]
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	60 UJ	- -	- -	30 U	- -	- -	31 UJ [34 U]
4-Bromophenyl-phenylether	- -	140	- -	10.8500	9.6 UJ	- -	NA	4.8 UJ	- -	10.44[9.03]	4.9 U [5.4 U]
4-Chloro-3-Methylphenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
4-Chloroaniline	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
4-Chlorophenyl-phenylether	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
4-Methylphenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
4-Nitroaniline	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
4-Nitrophenol	- -	- -	- -	- -	60 UJ	- -	- -	30 U	- -	- -	31 U [34 U]
Acenaphthene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Acenaphthylene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Anthracene	986	107	76.4150	8.2925	0.46 J	NA	NA	4.8 UJ	73.56[63.60]	7.98[6.90]	0.39 J [0.29 J]
Benzo(a)anthracene	94	12	7.2850	0.9300	2.1 J	NA	NA	0.70 J	7.01[6.06]	0.90[0.77]	1.5 J [1.3 J]
Benzo(a)pyrene	- -	- -	- -	- -	2.3 J	- -	- -	0.67 J	- -	- -	1.7 J [1.4 J]
Benzo(b)fluoranthene	- -	- -	- -	- -	3.5 J	- -	- -	0.99 J	- -	- -	2.5 J [2.2 J]
Benzo(g,h,i)perylene	- -	- -	- -	- -	8.6 J	- -	- -	4.0 J	- -	- -	5.1 [5.4]
Benzo(k)fluoranthene	- -	- -	- -	- -	1.3 J	- -	- -	4.8 UJ	- -	- -	0.89 J [0.83 J]
Benzyl Alcohol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
bis(2-Chloroethyl)ether	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	15.4613	22 J	- -	NA	10 J	- -	14.88[12.87]	14 J [13]
Butylbenzylphthalate	- -	- -	- -	- -	0.81 J	- -	- -	0.32 J	- -	- -	0.46 J [0.37 J]
Carbazole	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Chrysene	- -	- -	- -	- -	3.0 J	- -	- -	0.92 J	- -	- -	2.0 J [1.9 J]
Dibenzo(a,h)anthracene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Dibenzofuran	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Diethylphthalate	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Dimethylphthalate	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Di-n-Butylphthalate	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Di-n-Octylphthalate	- -	- -	- -	- -	11 J	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Fluoranthene	- -	1,020	- -	79.0500	5.0 J	- -	NA	1.5 J	- -	76.09[65.79]	3.6 J [3.1 J]
Fluorene	73	8	5.6575	0.6200	9.6 UJ	NA	NA	4.8 UJ	5.45[4.71]	0.60[0.52]	4.9 U [5.4 U]
Hexachlorobenzene	9,081	5,570	703.7775	431.6750	9.6 UJ	NA	NA	4.8 UJ	677.44[585.73]	415.52[359.27]	4.9 U [5.4 U]
Hexachlorobutadiene	55	5.5	4.2625	0.4263	9.6 UJ	NA	NA	4.8 UJ	4.10[3.55]	0.41[0.36]	4.9 U [5.4 U]
Hexachlorocyclopentadiene	44	4.4	3.4100	0.3410	24 UJ	NA	NA	12 UJ	3.28[2.84]	0.32[0.28]	R [13 U]
Hexachloroethane	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 UJ [5.4 U]
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	6.3 J	- -	- -	3.2 J	- -	- -	4.0 J [4.4 J]
Isophorone	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Naphthalene	258	30	19.9950	2.3250	9.6 UJ	NA	NA	4.8 UJ	19.25[16.64]	2.24[1.94]	4.9 U [5.4 U]
Nitrobenzene	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
N-Nitrosodiphenylamine	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 UJ	- -	- -	4.9 U [5.4 U]
Pentachlorophenol	100	40	7.7500	3.1000	24 UJ	NA	NA	12 U	7.46[6.45]	2.98[2.58]	12 UJ [13 U]
Phenanthrene	- -	120	- -	9.3000	1.7 J	- -	NA	0.48 J	- -	8.95[7.74]	1.0 J [0.92 J]
Phenol	- -	- -	- -	- -	9.6 UJ	- -	- -	4.8 U	- -	- -	4.9 U [5.4 U]
Pyrene	8,775	961	680.0625	74.4775	5.7 J	NA	NA	2.1 J	654.62[565.99]	71.69[61.95]	4.2 J [3.9 J]
Total PAHs	- -	- -	- -	- -	40 J	- -	- -	15 J	- -	- -	27 J [26 J]
Total Other SVOCs	- -	- -	- -	- -	34 J	- -	- -	10 J	- -	- -	15 J [13 J]
Total SVOCs	- -	- -	- -	- -	110 J	- -	- -	35 J	- -	- -	56 J [52 J]
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	77,500	- -	- -	NA	- -	- -	74,600 [64,500]

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-08			BG-09			BG-10		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	64.2460	6.4246	5.5 U	51.5060	5.1506	6.1 U	52.5980	5.2598	4.9 U
1,2-Dichlorobenzene	120	12	8.4720	0.8472	5.5 U	6.7920	0.6792	6.1 U	6.9360	0.6936	4.9 U
1,3-Dichlorobenzene	120	12	8.4720	0.8472	5.5 U	6.7920	0.6792	6.1 U	6.9360	0.6936	4.9 U
1,4-Dichlorobenzene	120	12	8.4720	0.8472	5.5 U	6.7920	0.6792	6.1 U	6.9360	0.6936	4.9 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	35 U	- -	- -	39 U	- -	- -	31 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2,4-Dichlorophenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2,4-Dimethylphenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2,4-Dinitrophenol	- -	- -	- -	- -	35 U	- -	- -	39 U	- -	- -	31 U
2,4-Dinitrotoluene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2,6-Dinitrotoluene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2-Chloronaphthalene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2-Chlorophenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2-Methylnaphthalene	304	34	21.4624	2.4004	5.5 U	17.2064	1.9244	6.1 U	17.5712	1.9652	4.9 U
2-Methylphenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
2-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	15 U	- -	- -	12 U
2-Nitrophenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	6.7 U	- -	- -	7.5 U	- -	- -	6.0 U
3-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	15 U	- -	- -	12 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	35 U	- -	- -	39 U	- -	- -	31 U
4-Bromophenyl-phenylether	- -	140	- -	9.8840	5.5 U	- -	7.9240	6.1 U	- -	8.0920	4.9 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
4-Chloroaniline	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
4-Methylphenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
4-Nitroaniline	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
4-Nitrophenol	- -	- -	- -	- -	35 U	- -	- -	39 U	- -	- -	31 U
Acenaphthene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Acenaphthylene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Anthracene	986	107	69.6116	7.5542	5.5 U	55.8076	6.0562	6.1 U	56.9908	6.1846	0.26 J
Benzo(a)anthracene	94	12	6.6364	0.8472	0.85 J	5.3204	0.6792	0.53 J	5.4332	0.6936	1.0 J
Benzo(a)pyrene	- -	- -	- -	- -	0.89 J	- -	- -	0.66 J	- -	- -	1.3 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.3 J	- -	- -	1.0 J	- -	- -	1.7 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	4.6 J	- -	- -	4.8 J	- -	- -	4.8 J
Benzo(k)fluoranthene	- -	- -	- -	- -	0.57 J	- -	- -	6.1 U	- -	- -	0.59 J
Benzyl Alcohol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	14.0847	8.3	- -	11.2917	6.4	- -	11.5311	11
Butylbenzylphthalate	- -	- -	- -	- -	0.32 J	- -	- -	6.1 U	- -	- -	0.36 J
Carbazole	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Chrysene	- -	- -	- -	- -	1.1 J	- -	- -	0.81 J	- -	- -	1.5 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Dibenzofuran	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Diethylphthalate	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Dimethylphthalate	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Di-n-Butylphthalate	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Di-n-Octylphthalate	- -	- -	- -	- -	6.0	- -	- -	6.1 U	- -	- -	5.5
Fluoranthene	- -	1,020	- -	72.0120	1.8 J	- -	57.7320	1.2 J	- -	58.9560	2.3 J
Fluorene	73	8	5.1538	0.5648	5.5 U	4.1318	0.4528	6.1 U	4.2194	0.4624	4.9 U
Hexachlorobenzene	9,081	5,570	641.1186	393.2420	5.5 U	513.9846	315.2620	6.1 U	524.8818	321.9460	4.9 U
Hexachlorobutadiene	55	5.5	3.8830	0.3883	5.5 U	3.1130	0.3113	6.1 U	3.1790	0.3179	4.9 U
Hexachlorocyclopentadiene	44	4.4	3.1064	0.3106	14 U	2.4904	0.2490	15 U	2.5432	0.2543	12 U
Hexachloroethane	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	3.3 J	- -	- -	6.1 U	- -	- -	3.6 J
Isophorone	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Naphthalene	258	30	18.2148	2.1180	5.5 U	14.6028	1.6980	6.1 U	14.9124	1.7340	4.9 U
Nitrobenzene	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Pentachlorophenol	100	40	7.0600	2.8240	14 U	5.6600	2.2640	15 U	5.7800	2.3120	12 U
Phenanthrene	- -	120	- -	8.4720	0.52 J	- -	6.7920	0.46 J	- -	6.9360	0.67 J
Phenol	- -	- -	- -	- -	5.5 U	- -	- -	6.1 U	- -	- -	4.9 U
Pyrene	8,775	961	619.5150	67.8466	2.1 J	496.6650	54.3926	1.4 J	507.1950	55.5458	2.9 J
Total PAHs	- -	- -	- -	- -	17 J	- -	- -	11 J	- -	- -	21 J
Total Other SVOCs	- -	- -	- -	- -	15 J	- -	- -	6.4	- -	- -	17 J
Total SVOCs	- -	- -	- -	- -	46 J	- -	- -	24 J	- -	- -	54 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	70,600	- -	- -	56,600	- -	- -	57,800

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (m

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-11			BG-12			BG-13		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/17/11			05/16/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	50.5960	5.0596	4.6 U	37.4920	3.7492	3.1 U	48.4120	4.8412	4.3 U
1,2-Dichlorobenzene	120	12	6.6720	0.6672	4.6 U	4.9440	0.4944	3.1 U	6.3840	0.6384	4.3 U
1,3-Dichlorobenzene	120	12	6.6720	0.6672	4.6 U	4.9440	0.4944	3.1 U	6.3840	0.6384	4.3 U
1,4-Dichlorobenzene	120	12	6.6720	0.6672	4.6 U	4.9440	0.4944	3.1 U	6.3840	0.6384	4.3 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	29 U	- -	- -	20 U	- -	- -	27 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2,4-Dichlorophenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2,4-Dimethylphenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2,4-Dinitrophenol	- -	- -	- -	- -	29 U	- -	- -	20 U	- -	- -	27 U
2,4-Dinitrotoluene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2,6-Dinitrotoluene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2-Chloronaphthalene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2-Chlorophenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2-Methylnaphthalene	304	34	16.9024	1.8904	4.6 U	12.5248	1.4008	3.1 U	16.1728	1.8088	0.23 J
2-Methylphenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
2-Nitroaniline	- -	- -	- -	- -	11 U	- -	- -	7.7 U	- -	- -	11 U
2-Nitrophenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	5.6 U	- -	- -	3.8 U	- -	- -	5.2 U
3-Nitroaniline	- -	- -	- -	- -	11 U	- -	- -	7.7 U	- -	- -	11 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	29 U	- -	- -	20 U	- -	- -	27 U
4-Bromophenyl-phenylether	- -	140	- -	7.7840	4.6 U	- -	5.7680	3.1 U	- -	7.4480	4.3 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
4-Chloroaniline	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
4-Methylphenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
4-Nitroaniline	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
4-Nitrophenol	- -	- -	- -	- -	29 U	- -	- -	20 U	- -	- -	27 U
Acenaphthene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Acenaphthylene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Anthracene	986	107	54.8216	5.9492	0.25 J	40.6232	4.4084	3.1 U	52.4552	5.6924	0.51 J
Benzo(a)anthracene	94	12	5.2264	0.6672	0.93 J	3.8728	0.4944	0.22 J	5.0008	0.6384	1.8 J
Benzo(a)pyrene	- -	- -	- -	- -	1.2 J	- -	- -	3.1 U	- -	- -	2.0 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.7 J	- -	- -	0.33 J	- -	- -	3.0 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	4.5 J	- -	- -	3.1 U	- -	- -	5.1 J
Benzo(k)fluoranthene	- -	- -	- -	- -	0.66 J	- -	- -	3.1 U	- -	- -	1.2 J
Benzyl Alcohol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	11.0922	9.3	- -	8.2194	1.3 J	- -	10.6134	23 J
Butylbenzylphthalate	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	0.84 J
Carbazole	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Chrysene	- -	- -	- -	- -	1.3 J	- -	- -	0.24 J	- -	- -	2.6 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	2.6 J
Dibenzofuran	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Diethylphthalate	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Dimethylphthalate	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Di-n-Butylphthalate	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Di-n-Octylphthalate	- -	- -	- -	- -	5.2	- -	- -	3.1 U	- -	- -	5.2
Fluoranthene	- -	1,020	- -	56.7120	2.2 J	- -	42.0240	0.40 J	- -	54.2640	3.9 J
Fluorene	73	8	4.0588	0.4448	4.6 U	3.0076	0.3296	3.1 U	3.8836	0.4256	0.29 J
Hexachlorobenzene	9,081	5,570	504.9036	309.6920	4.6 U	374.1372	229.4840	3.1 U	483.1092	296.3240	4.3 U
Hexachlorobutadiene	55	5.5	3.0580	0.3058	4.6 U	2.2660	0.2266	3.1 U	2.9260	0.2926	4.3 U
Hexachlorocyclopentadiene	44	4.4	2.4464	0.2446	11 U	1.8128	0.1813	7.7 U	2.3408	0.2341	11 U
Hexachloroethane	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	3.3 J	- -	- -	1.7 J	- -	- -	4.3
Isophorone	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Naphthalene	258	30	14.3448	1.6680	4.6 U	10.6296	1.2360	3.1 U	13.7256	1.5960	0.29 J
Nitrobenzene	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Pentachlorophenol	100	40	5.5600	2.2240	11 U	4.1200	1.6480	7.7 U	5.3200	2.1280	11 U
Phenanthrene	- -	120	- -	6.6720	0.69 J	- -	4.9440	3.1 U	- -	6.3840	1.2 J
Phenol	- -	- -	- -	- -	4.6 U	- -	- -	3.1 U	- -	- -	4.3 U
Pyrene	8,775	961	487.8900	53.4316	3.0 J	361.5300	39.5932	0.61 J	466.8300	51.1252	5.7
Total PAHs	- -	- -	- -	- -	20 J	- -	- -	3.5 J	- -	- -	35 J
Total Other SVOCs	- -	- -	- -	- -	15	- -	- -	1.3 J	- -	- -	29 J
Total SVOCs	- -	- -	- -	- -	49 J	- -	- -	6.1 J	- -	- -	93 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	55,600	- -	- -	41,200	- -	- -	53,200

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (m

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-13[2] Bottom Layer			BG-14			BG-15		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/16/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	NA	NA	R	41.2230	4.1223	2.6 U	53.5990	5.3599	5.2 UJ
1,2-Dichlorobenzene	120	12	NA	NA	R	5.4360	0.5436	2.6 U	7.0680	0.7068	5.2 UJ
1,3-Dichlorobenzene	120	12	NA	NA	R	5.4360	0.5436	2.6 U	7.0680	0.7068	5.2 UJ
1,4-Dichlorobenzene	120	12	NA	NA	R	5.4360	0.5436	2.6 U	7.0680	0.7068	5.2 UJ
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
2,4,5-Trichlorophenol	- -	- -	- -	- -	27 UJ	- -	- -	16 U	- -	- -	33 UJ
2,4,6-Trichlorophenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
2,4-Dichlorophenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
2,4-Dimethylphenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
2,4-Dinitrophenol	- -	- -	- -	- -	27 UJ	- -	- -	16 U	- -	- -	33 UJ
2,4-Dinitrotoluene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
2,6-Dinitrotoluene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
2-Chloronaphthalene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
2-Chlorophenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
2-Methylnaphthalene	304	34	NA	NA	R	13.7712	1.5402	2.6 U	17.9056	2.0026	5.2 UJ
2-Methylphenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
2-Nitroaniline	- -	- -	- -	- -	R	- -	- -	6.3 U	- -	- -	13 UJ
2-Nitrophenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
3,3'-Dichlorobenzidine	- -	- -	- -	- -	R	- -	- -	3.1 U	- -	- -	6.4 UJ
3-Nitroaniline	- -	- -	- -	- -	R	- -	- -	6.3 U	- -	- -	13 UJ
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	27 UJ	- -	- -	16 U	- -	- -	33 UJ
4-Bromophenyl-phenylether	- -	140	- -	NA	R	- -	6.3420	2.6 U	- -	8.2460	5.2 UJ
4-Chloro-3-Methylphenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
4-Chloroaniline	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
4-Chlorophenyl-phenylether	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
4-Methylphenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
4-Nitroaniline	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
4-Nitrophenol	- -	- -	- -	- -	27 UJ	- -	- -	16 U	- -	- -	33 UJ
Acenaphthene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Acenaphthylene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Anthracene	986	107	NA	NA	R	44.6658	4.8471	2.6 U	58.0754	6.3023	0.23 J
Benzo(a)anthracene	94	12	NA	NA	0.18 J	4.2582	0.5436	0.46 J	5.5366	0.7068	0.92 J
Benzo(a)pyrene	- -	- -	- -	- -	R	- -	- -	0.53 J	- -	- -	1.2 J
Benzo(b)fluoranthene	- -	- -	- -	- -	R	- -	- -	0.70 J	- -	- -	1.6 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	4.3 J
Benzo(k)fluoranthene	- -	- -	- -	- -	R	- -	- -	0.29 J	- -	- -	0.65 J
Benzyl Alcohol	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
bis(2-Chloroethyl)ether	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	NA	0.87 J	- -	9.0374	2.7	- -	11.7506	7.0 J
Butylbenzylphthalate	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Carbazole	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Chrysene	- -	- -	- -	- -	R	- -	- -	0.48 J	- -	- -	1.2 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Dibenzofuran	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Diethylphthalate	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Dimethylphthalate	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Di-n-Butylphthalate	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Di-n-Octylphthalate	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Fluoranthene	- -	1,020	- -	NA	0.36 J	- -	46.2060	0.69 J	- -	60.0780	2.1 J
Fluorene	73	8	NA	NA	R	3.3069	0.3624	2.6 U	4.2997	0.4712	5.2 UJ
Hexachlorobenzene	9,081	5,570	NA	NA	R	411.3693	252.3210	2.6 U	534.8709	328.0730	5.2 UJ
Hexachlorobutadiene	55	5.5	NA	NA	R	2.4915	0.2492	2.6 U	3.2395	0.3240	5.2 UJ
Hexachlorocyclopentadiene	44	4.4	NA	NA	R	1.9932	0.1993	6.3 U	2.5916	0.2592	13 UJ
Hexachloroethane	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	3.3 J
Isophorone	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Naphthalene	258	30	NA	NA	R	11.6874	1.3590	2.6 U	15.1962	1.7670	5.2 UJ
Nitrobenzene	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
N-Nitrosodiphenylamine	- -	- -	- -	- -	R	- -	- -	2.6 U	- -	- -	5.2 UJ
Pentachlorophenol	100	40	NA	NA	11 UJ	4.5300	1.8120	6.3 U	5.8900	0.4186	13 UJ
Phenanthrene	- -	120	- -	NA	R	- -	5.4360	2.6 U	- -	#VALUE!	0.61 J
Phenol	- -	- -	- -	- -	4.3 UJ	- -	- -	2.6 U	- -	- -	5.2 UJ
Pyrene	8,775	961	NA	NA	0.52 J	397.5075	43.5333	1.1 J	516.8475	56.6029	2.2 J
Total PAHs	- -	- -	- -	- -	1.1 J	- -	- -	4.3 J	- -	- -	18 J
Total Other SVOCs	- -	- -	- -	- -	0.87 J	- -	- -	2.7	- -	- -	7.0 J
Total SVOCs	- -	- -	- -	- -	2.8 J	- -	- -	9.7 J	- -	- -	32 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	NA	- -	- -	45,300	- -	- -	58,900

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-15[2]			BG-16			BG-16[2]		
Sample Depth(Feet):			Bottom Layer			Bottom Layer			Bottom Layer		
			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	NA	NA	5.2 U	44.95[43.68]	4.50[4.37]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
1,2-Dichlorobenzene	120	12	NA	NA	5.2 U	5.93[5.76]	0.59[0.58]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
1,3-Dichlorobenzene	120	12	NA	NA	5.2 U	5.93[5.76]	0.59[0.58]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
1,4-Dichlorobenzene	120	12	NA	NA	5.2 U	5.93[5.76]	0.59[0.58]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
2,4,5-Trichlorophenol	- -	- -	- -	- -	33 U	- -	- -	37 UJ [36 U]	- -	- -	37 U [36 UJ]
2,4,6-Trichlorophenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
2,4-Dichlorophenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
2,4-Dimethylphenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
2,4-Dinitrophenol	- -	- -	- -	- -	33 U	- -	- -	37 U [36 U]	- -	- -	37 U [36 UJ]
2,4-Dinitrotoluene	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
2,6-Dinitrotoluene	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
2-Chloronaphthalene	- -	- -	- -	- -	5.2 U	- -	- -	5.9 U [5.7 U]	- -	- -	5.9 UJ [R]
2-Chlorophenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
2-Methylnaphthalene	304	34	NA	NA	0.48 J	15.02[14.59]	1.68[1.63]	0.32 J [0.24 J]	NA	NA	5.9 UJ [R]
2-Methylphenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
2-Nitroaniline	- -	- -	- -	- -	13 U	- -	- -	15 UJ [14 U]	- -	- -	15 UJ [R]
2-Nitrophenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
3,3'-Dichlorobenzidine	- -	- -	- -	- -	6.4 U	- -	- -	7.2 U [7.0 U]	- -	- -	7.2 UJ [R]
3-Nitroaniline	- -	- -	- -	- -	13 U	- -	- -	15 U [14 U]	- -	- -	15 UJ [R]
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	33 U	- -	- -	37 UJ [36 U]	- -	- -	37 U [36 UJ]
4-Bromophenyl-phenylether	- -	140	- -	NA	5.2 U	- -	6.92[6.72]	5.9 UJ [5.7 U]	- -	NA	5.9 UJ [R]
4-Chloro-3-Methylphenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
4-Chloroaniline	- -	- -	- -	- -	5.2 U	- -	- -	5.9 U [5.7 U]	- -	- -	5.9 UJ [R]
4-Chlorophenyl-phenylether	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
4-Methylphenol	- -	- -	- -	- -	5.2 U	- -	- -	0.46 J [0.41 J]	- -	- -	5.9 U [5.7 UJ]
4-Nitroaniline	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
4-Nitrophenol	- -	- -	- -	- -	33 U	- -	- -	37 UJ [36 U]	- -	- -	37 U [36 UJ]
Acenaphthene	- -	- -	- -	- -	0.31 J	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Acenaphthylene	- -	- -	- -	- -	0.55 J	- -	- -	0.31 J [5.7 U]	- -	- -	5.9 UJ [R]
Anthracene	986	107	NA	NA	1.1 J	48.71[47.33]	5.29[5.14]	0.62 J [0.53 J]	NA	NA	5.9 UJ [R]
Benzo(a)anthracene	94	12	NA	NA	3.7 J	4.64[4.51]	0.59[0.58]	1.9 J [1.7 J]	NA	NA	0.23 J [R]
Benzo(a)pyrene	- -	- -	- -	- -	4.6 J	- -	- -	2.3 J [1.9 J]	- -	- -	5.9 UJ [R]
Benzo(b)fluoranthene	- -	- -	- -	- -	5.9 J	- -	- -	3.0 J [3.0 J]	- -	- -	0.28 J [R]
Benzo(g,h,i)perylene	- -	- -	- -	- -	9.3 J	- -	- -	5.9 J [5.7 J]	- -	- -	5.9 UJ [R]
Benzo(k)fluoranthene	- -	- -	- -	- -	2.6 J	- -	- -	1.2 J [0.91 J]	- -	- -	5.9 UJ [R]
Benzyl Alcohol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
bis(2-Chloroethyl)ether	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	NA	36 J	- -	9.86[9.58]	14 J [14 J]	- -	NA	0.77 J [1.2 J]
Butylbenzylphthalate	- -	- -	- -	- -	1.4 J	- -	- -	0.56 J [0.42 J]	- -	- -	5.9 UJ [R]
Carbazole	- -	- -	- -	- -	0.42 J	- -	- -	5.9 U [5.7 U]	- -	- -	5.9 UJ [R]
Chrysene	- -	- -	- -	- -	5.6 J	- -	- -	2.4 J [2.2 J]	- -	- -	5.9 UJ [R]
Dibenzo(a,h)anthracene	- -	- -	- -	- -	3.8 J	- -	- -	5.9 U [3.1 J]	- -	- -	5.9 UJ [R]
Dibenzofuran	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Diethylphthalate	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Dimethylphthalate	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Di-n-Butylphthalate	- -	- -	- -	- -	5.2 U	- -	- -	5.9 U [5.7 U]	- -	- -	5.9 UJ [R]
Di-n-Octylphthalate	- -	- -	- -	- -	6.7 J	- -	- -	6.8 J [6.6]	- -	- -	5.9 UJ [R]
Fluoranthene	- -	1,020	- -	NA	7.9 J	- -	50.39[48.96]	3.2 J [3.2 J]	- -	NA	0.39 J [0.30 J]
Fluorene	73	8	NA	NA	0.44 J	3.61[3.50]	0.40[0.38]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
Hexachlorobenzene	9,081	5,570	NA	NA	5.2 U	448.60[435.89]	275.16[267.36]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
Hexachlorobutadiene	55	5.5	NA	NA	5.2 U	2.72[2.64]	0.27[0.26]	5.9 UJ [5.7 U]	NA	NA	5.9 UJ [R]
Hexachlorocyclopentadiene	44	4.4	NA	NA	13 U	2.17[2.11]	0.28[0.21]	R [14 U]	NA	NA	15 UJ [R]
Hexachloroethane	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	8.0 J	- -	- -	4.5 J [4.4 J]	- -	- -	5.9 UJ [R]
Isophorone	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Naphthalene	258	30	NA	NA	0.59 J	12.75[12.38]	1.48[1.44]	0.41 J [5.7 U]	NA	NA	5.9 UJ [R]
Nitrobenzene	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
N-Nitrosodiphenylamine	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 UJ [R]
Pentachlorophenol	100	40	NA	NA	13 U	4.94[4.80]	1.98[1.92]	15 U [14 U]	NA	NA	15 U [14 UJ]
Phenanthrene	- -	120	- -	NA	2.8 J	- -	5.93[5.76]	1.3 J [1.3 J]	- -	NA	5.9 UJ [R]
Phenol	- -	- -	- -	- -	5.2 U	- -	- -	5.9 UJ [5.7 U]	- -	- -	5.9 U [5.7 UJ]
Pyrene	8,775	961	NA	NA	13 J	433.49[421.20]	47.47[46.13]	4.5 J [4.4 J]	NA	NA	0.53 J [0.41 J]
Total PAHs	- -	- -	- -	- -	70 J	- -	- -	32 J [32 J]	- -	- -	1.4 J [0.71 J]
Total Other SVOCs	- -	- -	- -	- -	45 J	- -	- -	22 J [22 J]	- -	- -	0.77 J [1.2 J]
Total SVOCs	- -	- -	- -	- -	160 J	- -	- -	76 J [76 J]	- -	- -	3.0 J [3.1 J]
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	NA	- -	- -	49,400 [48,000]	- -	- -	NA

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-17			BG-18			BG-19		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	46.7740	4.6774	5.7 U	51.5970	5.1597	4.5 U	44.3170	4.4317	5.3 U
1,2-Dichlorobenzene	120	12	6.1680	0.6168	5.7 U	6.8040	0.6804	4.5 U	5.8440	0.5844	5.3 U
1,3-Dichlorobenzene	120	12	6.1680	0.6168	5.7 U	6.8040	0.6804	4.5 U	5.8440	0.5844	5.3 U
1,4-Dichlorobenzene	120	12	6.1680	0.6168	5.7 U	6.8040	0.6804	4.5 U	5.8440	0.5844	5.3 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	36 U	- -	- -	28 U	- -	- -	33 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2,4-Dichlorophenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2,4-Dimethylphenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2,4-Dinitrophenol	- -	- -	- -	- -	36 U	- -	- -	28 U	- -	- -	33 U
2,4-Dinitrotoluene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2,6-Dinitrotoluene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2-Chloronaphthalene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2-Chlorophenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2-Methylnaphthalene	304	34	15.6256	1.7476	5.7 U	17.2368	1.9278	4.5 U	14.8048	1.6558	5.3 U
2-Methylphenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
2-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	11 U	- -	- -	13 U
2-Nitrophenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	6.9 U	- -	- -	5.5 U	- -	- -	6.5 U
3-Nitroaniline	- -	- -	- -	- -	14 U	- -	- -	11 U	- -	- -	13 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	36 U	- -	- -	28 U	- -	- -	33 U
4-Bromophenyl-phenylether	- -	140	- -	7.1960	5.7 U	- -	7.9380	4.5 U	- -	6.8180	5.3 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
4-Chloroaniline	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
4-Methylphenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	7.2
4-Nitroaniline	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
4-Nitrophenol	- -	- -	- -	- -	36 U	- -	- -	28 U	- -	- -	33 U
Acenaphthene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Acenaphthylene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Anthracene	986	107	50.6804	5.4998	5.7 U	55.9062	6.0669	4.5 U	48.0182	5.2109	5.3 U
Benzo(a)anthracene	94	12	4.8316	0.6168	0.64 J	5.3298	0.6804	0.82 J	4.5778	0.5844	0.44 J
Benzo(a)pyrene	- -	- -	- -	- -	0.82 J	- -	- -	1.0 J	- -	- -	0.45 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.1 J	- -	- -	1.3 J	- -	- -	0.61 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	4.7 J	- -	- -	4.5 U	- -	- -	5.3 U
Benzo(k)fluoranthene	- -	- -	- -	- -	5.7 U	- -	- -	0.61 J	- -	- -	5.3 U
Benzyl Alcohol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	10.2543	5.4 J	- -	11.3117	6.6	- -	9.7157	2.3 J
Butylbenzylphthalate	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Carbazole	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Chrysene	- -	- -	- -	- -	0.85 J	- -	- -	0.96 J	- -	- -	0.53 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Dibenzofuran	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Diethylphthalate	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Dimethylphthalate	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Di-n-Butylphthalate	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Di-n-Octylphthalate	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Fluoranthene	- -	1,020	- -	52.4280	1.3 J	- -	57.8340	1.1 J	- -	49.6740	0.64 J
Fluorene	73	8	3.7522	0.4112	5.7 U	4.1391	0.4536	4.5 U	3.5551	0.3896	5.3 U
Hexachlorobenzene	9,081	5,570	466.7634	286.2980	5.7 U	514.8927	315.8190	4.5 U	442.2447	271.2590	5.3 U
Hexachlorobutadiene	55	5.5	2.8270	0.2827	5.7 U	3.1185	0.3119	4.5 U	2.6785	0.2679	5.3 U
Hexachlorocyclopentadiene	44	4.4	2.2616	0.2262	14 U	2.4948	0.2495	11 U	2.1428	0.2143	13 U
Hexachloroethane	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	3.6 J	- -	- -	4.5 U	- -	- -	5.3 U
Isophorone	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Naphthalene	258	30	13.2612	1.5420	5.7 U	14.6286	1.7010	4.5 U	12.5646	1.4610	5.3 U
Nitrobenzene	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Pentachlorophenol	100	40	5.1400	2.0560	14 U	5.6700	2.2680	11 U	4.8700	1.9480	13 U
Phenanthrene	- -	120	- -	6.1680	0.44 J	- -	6.8040	4.5 U	- -	5.8440	0.28 J
Phenol	- -	- -	- -	- -	5.7 U	- -	- -	4.5 U	- -	- -	5.3 U
Pyrene	8,775	961	451.0350	49.3954	2.0 J	497.5425	54.4887	2.0 J	427.3425	46.8007	1.1 J
Total PAHs	- -	- -	- -	- -	16 J	- -	- -	7.8 J	- -	- -	4.1 J
Total Other SVOCs	- -	- -	- -	- -	5.4 J	- -	- -	6.6	- -	- -	9.5 J
Total SVOCs	- -	- -	- -	- -	26 J	- -	- -	21 J	- -	- -	23 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	51,400	- -	- -	56,700	- -	- -	48,700

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			BG-20			BG-21			SD-20		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/13/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	40.4950	4.0495	5.1 U	49.6860	4.9686	4.6 U	49.5950	4.9595	0.97 U
1,2-Dichlorobenzene	120	12	5.3400	0.5340	5.1 U	6.5520	0.6552	4.6 U	6.5400	0.6540	0.97 U
1,3-Dichlorobenzene	120	12	5.3400	0.5340	5.1 U	6.5520	0.6552	4.6 U	6.5400	0.6540	0.97 U
1,4-Dichlorobenzene	120	12	5.3400	0.5340	5.1 U	6.5520	0.6552	4.6 U	6.5400	0.6540	0.97 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	32 U	- -	- -	29 U	- -	- -	6.1 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2,4-Dichlorophenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2,4-Dimethylphenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2,4-Dinitrophenol	- -	- -	- -	- -	32 U	- -	- -	29 U	- -	- -	6.1 U
2,4-Dinitrotoluene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2,6-Dinitrotoluene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2-Chloronaphthalene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2-Chlorophenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2-Methylnaphthalene	304	34	13.5280	1.5130	5.1 U	16.5984	1.8564	4.6 U	16.5680	1.8530	0.11 J
2-Methylphenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
2-Nitroaniline	- -	- -	- -	- -	13 U	- -	- -	11 U	- -	- -	2.4 U
2-Nitrophenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	6.2 U	- -	- -	5.6 U	- -	- -	1.2 U
3-Nitroaniline	- -	- -	- -	- -	13 U	- -	- -	11 U	- -	- -	2.4 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	32 U	- -	- -	29 U	- -	- -	6.1 U
4-Bromophenyl-phenylether	- -	140	- -	6.2300	5.1 U	- -	7.6440	4.6 U	- -	7.6300	0.97 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
4-Chloroaniline	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
4-Methylphenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.15 J
4-Nitroaniline	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
4-Nitrophenol	- -	- -	- -	- -	32 U	- -	- -	29 U	- -	- -	6.1 U
Acenaphthene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.11 J
Acenaphthylene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.17 J
Anthracene	986	107	43.8770	4.7615	5.1 U	53.8356	5.8422	0.18 J	53.7370	5.8315	0.34 J
Benzo(a)anthracene	94	12	4.1830	0.5340	0.48 J	5.1324	0.6552	0.75 J	5.1230	0.6540	1.1
Benzo(a)pyrene	- -	- -	- -	- -	0.53 J	- -	- -	0.89 J	- -	- -	1.3
Benzo(b)fluoranthene	- -	- -	- -	- -	0.65 J	- -	- -	1.3 J	- -	- -	1.3
Benzo(g,h,i)perylene	- -	- -	- -	- -	4.0 J	- -	- -	4.1 J	- -	- -	1.6
Benzo(k)fluoranthene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.52 J
Benzyl Alcohol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	8.8778	2.5 J	- -	10.8927	4.0 J	- -	10.8728	6.5
Butylbenzylphthalate	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	1.2
Carbazole	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.084 J
Chrysene	- -	- -	- -	- -	0.52 J	- -	- -	0.91 J	- -	- -	1.3
Dibenzo(a,h)anthracene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.79 J
Dibenzofuran	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Diethylphthalate	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Dimethylphthalate	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Di-n-Butylphthalate	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Di-n-Octylphthalate	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Fluoranthene	- -	1,020	- -	45.3900	0.76 J	- -	55.6920	1.2 J	- -	55.5900	1.7
Fluorene	73	8	3.2485	0.3560	5.1 U	3.9858	0.4368	4.6 U	3.9785	0.4360	0.15 J
Hexachlorobenzene	9,081	5,570	404.1045	247.8650	5.1 U	495.8226	304.1220	4.6 U	494.9145	303.5650	0.97 U
Hexachlorobutadiene	55	5.5	2.4475	0.2448	5.1 U	3.0030	0.3003	4.6 U	2.9975	0.2998	0.97 U
Hexachlorocyclopentadiene	44	4.4	1.9580	0.1958	13 U	2.4024	0.2402	11 U	2.3980	0.2398	2.4 U
Hexachloroethane	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	5.1 U	- -	- -	3.1 J	- -	- -	1.7
Isophorone	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Naphthalene	258	30	11.4810	1.3350	5.1 U	14.0868	1.6380	4.6 U	14.0610	1.6350	0.13 J
Nitrobenzene	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Pentachlorophenol	100	40	4.4500	1.7800	13 U	5.4600	2.1840	11 U	5.4500	2.1800	2.4 U
Phenanthrene	- -	120	- -	5.3400	0.30 J	- -	6.5520	0.54 J	- -	6.5400	0.94 J
Phenol	- -	- -	- -	- -	5.1 U	- -	- -	4.6 U	- -	- -	0.97 U
Pyrene	8,775	961	390.4875	42.7645	1.2 J	479.1150	52.4706	2.1 J	478.2375	52.3745	3.3
Total PAHs	- -	- -	- -	- -	8.4 J	- -	- -	15 J	- -	- -	17 J
Total Other SVOCs	- -	- -	- -	- -	2.5 J	- -	- -	4.0 J	- -	- -	8.0 J
Total SVOCs	- -	- -	- -	- -	13 J	- -	- -	23 J	- -	- -	33 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	44,500	- -	- -	54,600	- -	- -	54,500

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-21			SD-22			SD-23		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/13/11 Analytical Result	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/13/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/13/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	45.0450	4.5045	0.96 U	46.9560	4.6956	0.98 U	43.4980	4.3498	1.0 U
1,2-Dichlorobenzene	120	12	5.9400	0.5940	0.96 U	6.1920	0.6192	0.98 U	5.7360	0.5736	1.0 U
1,3-Dichlorobenzene	120	12	5.9400	0.5940	0.96 U	6.1920	0.6192	0.98 U	5.7360	0.5736	1.0 U
1,4-Dichlorobenzene	120	12	5.9400	0.5940	0.96 U	6.1920	0.6192	0.98 U	5.7360	0.5736	1.0 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	6.0 U	- -	- -	6.2 U	- -	- -	6.5 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2,4-Dinitrophenol	- -	- -	- -	- -	6.0 U	- -	- -	6.2 U	- -	- -	6.5 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2-Chloronaphthalene	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2-Chlorophenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2-Methylnaphthalene	304	34	15.0480	1.6830	0.10 J	15.6864	1.7544	0.10 J	14.5312	1.6252	0.071 J
2-Methylphenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
2-Nitroaniline	- -	- -	- -	- -	2.4 U	- -	- -	2.4 U	- -	- -	2.5 U
2-Nitrophenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.2 U	- -	- -	1.2 U	- -	- -	1.3 U
3-Nitroaniline	- -	- -	- -	- -	2.4 U	- -	- -	2.4 U	- -	- -	2.5 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	6.0 U	- -	- -	6.2 U	- -	- -	6.5 U
4-Bromophenyl-phenylether	- -	140	- -	6.9300	0.96 U	- -	7.2240	0.98 U	- -	6.692	1.0 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
4-Chloroaniline	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
4-Methylphenol	- -	- -	- -	- -	0.075 J	- -	- -	0.16 J	- -	- -	0.28 J
4-Nitroaniline	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
4-Nitrophenol	- -	- -	- -	- -	6.0 U	- -	- -	6.2 U	- -	- -	6.5 U
Acenaphthene	- -	- -	- -	- -	0.078 J	- -	- -	0.11 J	- -	- -	1.0 U
Acenaphthylene	- -	- -	- -	- -	0.18 J	- -	- -	0.17 J	- -	- -	0.13 J
Anthracene	986	107	48.8070	5.2965	0.29 J	50.8776	5.5212	0.34 J	47.1308	5.1146	0.15 J
Benzo(a)anthracene	94	12	4.6530	0.5940	0.89 J	4.8504	0.6192	1.1	4.4932	0.5736	0.45 J
Benzo(a)pyrene	- -	- -	- -	- -	1.2	- -	- -	1.3	- -	- -	0.57 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.3	- -	- -	1.2	- -	- -	0.48 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.6	- -	- -	1.6	- -	- -	1.1
Benzo(k)fluoranthene	- -	- -	- -	- -	0.41 J	- -	- -	0.53 J	- -	- -	0.22 J
Benzyl Alcohol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	9.8753	5.4	- -	10.2942	7.3	- -	9.5361	2.4 B
Butylbenzylphthalate	- -	- -	- -	- -	1.2	- -	- -	1.2	- -	- -	0.13 J
Carbazole	- -	- -	- -	- -	0.058 J	- -	- -	0.084 J	- -	- -	1.0 U
Chrysene	- -	- -	- -	- -	1.1	- -	- -	1.3	- -	- -	0.52 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.74 J	- -	- -	0.78 J	- -	- -	0.37 J
Dibenzofuran	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Diethylphthalate	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Dimethylphthalate	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.96 U	- -	- -	1.1	- -	- -	1.0 U
Fluoranthene	- -	1,020	- -	50.4900	1.5	- -	52.6320	1.7	- -	48.756	0.52 J
Fluorene	73	8	3.6135	0.3960	0.087 J	3.7668	0.4128	0.14 J	3.4894	0.3824	1.0 U
Hexachlorobenzene	9,081	5,570	449.5095	275.7150	0.96 U	468.5796	287.4120	0.98 U	434.0718	266.246	1.0 U
Hexachlorobutadiene	55	5.5	2.7225	0.2723	0.96 U	2.8380	0.2838	0.98 U	2.6290	0.2629	1.0 U
Hexachlorocyclopentadiene	44	4.4	2.1780	0.2178	2.4 U	2.2704	0.2270	2.4 U	2.1032	0.21032	2.5 U
Hexachloroethane	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.5	- -	- -	1.6	- -	- -	0.77 J
Isophorone	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Naphthalene	258	30	12.7710	1.4850	0.13 J	13.3128	1.5480	0.13 J	12.3324	1.434	0.088 J
Nitrobenzene	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Pentachlorophenol	100	40	4.9500	1.9800	2.4 U	5.1600	2.0640	2.4 U	4.7800	1.912	2.5 U
Phenanthrene	- -	120	- -	5.9400	0.53 J	- -	6.1920	0.95 J	- -	5.736	0.28 J
Phenol	- -	- -	- -	- -	0.96 U	- -	- -	0.98 U	- -	- -	1.0 U
Pyrene	8,775	961	434.3625	47.5695	2.9	452.7900	49.5876	3.2	419.4450	45.9358	1.8
Total PAHs	- -	- -	- -	- -	14 J	- -	- -	16 J	- -	- -	7.5 J
Total Other SVOCs	- -	- -	- -	- -	6.8 J	- -	- -	9.9 J	- -	- -	2.9 J
Total SVOCs	- -	- -	- -	- -	28 J	- -	- -	36 J	- -	- -	13 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	49,500	- -	- -	51,600	- -	- -	47,800

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-23			SD-24			SD-24		
Sample Depth(Feet):			8 - 9			0 - 0.5			8 - 9		
			05/12/11			05/10/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	18.2000	1.8200	0.47 U	45.5910	4.5591	0.98 U	0.4022	0.0402	0.31 U
1,2-Dichlorobenzene	120	12	2.4000	0.2400	0.47 U	6.0120	0.6012	0.98 U	0.0530	0.0053	0.31 U
1,3-Dichlorobenzene	120	12	2.4000	0.2400	0.47 U	6.0120	0.6012	0.98 U	0.0530	0.0053	0.31 U
1,4-Dichlorobenzene	120	12	2.4000	0.2400	0.47 U	6.0120	0.6012	0.98 U	0.0530	0.0053	0.31 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	3.0 U	- -	- -	6.2 U	- -	- -	2.0 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2,4-Dinitrophenol	- -	- -	- -	- -	3.0 U	- -	- -	6.2 U	- -	- -	2.0 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2-Chloronaphthalene	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2-Chlorophenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2-Methylnaphthalene	304	34	6.0800	0.6800	0.47 U	15.2304	1.7034	0.11 J	0.1344	0.0150	0.31 U
2-Methylphenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
2-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.4 U	- -	- -	0.77 U
2-Nitrophenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	0.57 U	- -	- -	1.2 U	- -	- -	0.38 U
3-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.4 U	- -	- -	0.77 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	3.0 U	- -	- -	6.2 U	- -	- -	2.0 U
4-Bromophenyl-phenylether	- -	140	- -	2.8000	0.47 U	- -	7.0140	0.98 U	- -	0.0619	0.31 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
4-Chloroaniline	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
4-Methylphenol	- -	- -	- -	- -	0.47 U	- -	- -	6.8	- -	- -	0.31 U
4-Nitroaniline	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
4-Nitrophenol	- -	- -	- -	- -	3.0 U	- -	- -	6.2 U	- -	- -	2.0 U
Acenaphthene	- -	- -	- -	- -	0.47 U	- -	- -	0.061 J	- -	- -	0.31 U
Acenaphthylene	- -	- -	- -	- -	0.47 U	- -	- -	0.13 J	- -	- -	0.31 U
Anthracene	986	107	19.7200	2.1400	0.47 U	49.3986	5.3607	0.21 J	0.4358	0.0473	0.31 U
Benzo(a)anthracene	94	12	1.8800	0.2400	0.47 U	4.7094	0.6012	0.60 J	0.0415	0.0053	0.31 U
Benzo(a)pyrene	- -	- -	- -	- -	0.47 U	- -	- -	0.73 J	- -	- -	0.31 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.47 U	- -	- -	0.71 J	- -	- -	0.31 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.47 U	- -	- -	1.3	- -	- -	0.31 U
Benzo(k)fluoranthene	- -	- -	- -	- -	0.47 U	- -	- -	0.26 J	- -	- -	0.31 U
Benzyl Alcohol	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	3.9900	0.41 J	- -	9.9950	4.8 B	- -	0.0882	0.031 J
Butylbenzylphthalate	- -	- -	- -	- -	0.45 J	- -	- -	0.28 J	- -	- -	0.31 U
Carbazole	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Chrysene	- -	- -	- -	- -	0.47 U	- -	- -	0.75 J	- -	- -	0.31 U
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.47 U	- -	- -	0.42 J	- -	- -	0.31 U
Dibenzofuran	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Diethylphthalate	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Dimethylphthalate	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Fluoranthene	- -	1,020	- -	20.4000	0.47 U	- -	51.1020	0.74 J	- -	0.4508	0.31 U
Fluorene	73	8	1.4600	0.1600	0.47 U	3.6573	0.4008	0.079 J	0.0323	0.0035	0.31 U
Hexachlorobenzene	9,081	5,570	181.6200	111.4000	0.47 U	454.9581	279.0570	0.98 U	4.0138	2.4619	0.31 U
Hexachlorobutadiene	55	5.5	1.1000	0.1100	0.47 U	2.7555	0.2756	0.98 U	0.0243	0.0024	0.31 U
Hexachlorocyclopentadiene	44	4.4	0.8800	0.0880	1.2 U	2.2044	0.2204	2.4 U	0.0194	0.0019	0.77 U
Hexachloroethane	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.47 U	- -	- -	1.0	- -	- -	0.31 U
Isophorone	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Naphthalene	258	30	5.1600	0.6000	0.47 U	12.9258	1.5030	0.14 J	0.1140	0.0133	0.31 U
Nitrobenzene	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.47 U	- -	- -	0.98 U	- -	- -	0.31 U
Pentachlorophenol	100	40	2.0000	0.8000	1.2 U	5.0100	2.0040	2.4 U	0.0442	0.0177	0.77 U
Phenanthrene	- -	120	- -	2.4000	0.47 U	- -	6.0120	0.48 J	- -	0.0530	0.31 U
Phenol	- -	- -	- -	- -	0.47 U	- -	- -	0.24 J	- -	- -	0.31 U
Pyrene	8,775	961	175.5000	19.2200	0.47 U	439.6275	48.1461	2.5	3.8786	0.4248	0.31 U
Total PAHs	- -	- -	- -	- -	0.47 U	- -	- -	10 J	- -	- -	0.31 U
Total Other SVOCs	- -	- -	- -	- -	0.86 J	- -	- -	12 J	- -	- -	0.031 J
Total SVOCs	- -	- -	- -	- -	1.7 J	- -	- -	35 J	- -	- -	0.062 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	20,000	- -	- -	50,100	- -	- -	442

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-25			SD-25			SD-26		
Sample Depth(Feet):			0 - 0.5			7.9 - 8.9			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	39.4940	3.9494	0.89 U	1.4105	0.1411	0.33 U	42.4060	4.2406	1.1 U
1,2-Dichlorobenzene	120	12	5.2080	0.5208	0.89 U	0.1860	0.0186	0.33 U	5.5920	0.5592	1.1 U
1,3-Dichlorobenzene	120	12	5.2080	0.5208	0.89 U	0.1860	0.0186	0.33 U	5.5920	0.5592	1.1 U
1,4-Dichlorobenzene	120	12	5.2080	0.5208	0.89 U	0.1860	0.0186	0.33 U	5.5920	0.5592	1.1 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	5.6 U	- -	- -	2.1 U	- -	- -	6.7 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2,4-Dinitrophenol	- -	- -	- -	- -	5.6 U	- -	- -	2.1 U	- -	- -	6.7 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2-Chloronaphthalene	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2-Chlorophenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2-Methylnaphthalene	304	34	13.1936	1.4756	0.15 J	0.4712	0.0527	0.33 U	14.1664	1.5844	0.18 J
2-Methylphenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
2-Nitroaniline	- -	- -	- -	- -	2.2 U	- -	- -	0.81 U	- -	- -	2.6 U
2-Nitrophenol	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.1 U	- -	- -	0.40 U	- -	- -	1.3 U
3-Nitroaniline	- -	- -	- -	- -	2.2 U	- -	- -	0.81 U	- -	- -	2.6 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	5.6 U	- -	- -	2.1 U	- -	- -	6.7 U
4-Bromophenyl-phenylether	- -	140	- -	6.0760	0.89 U	- -	0.2170	0.33 U	- -	6.5240	1.1 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.045 J	- -	- -	0.33 U	- -	- -	1.1 U
4-Chloroaniline	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
4-Methylphenol	- -	- -	- -	- -	0.55 J	- -	- -	0.33 U	- -	- -	0.64 J
4-Nitroaniline	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
4-Nitrophenol	- -	- -	- -	- -	5.6 U	- -	- -	2.1 U	- -	- -	6.7 U
Acenaphthene	- -	- -	- -	- -	0.064 J	- -	- -	0.33 U	- -	- -	0.13 J
Acenaphthylene	- -	- -	- -	- -	0.16 J	- -	- -	0.33 U	- -	- -	0.30 J
Anthracene	986	107	42.7924	4.6438	0.25 J	1.5283	0.1659	0.33 U	45.9476	4.9862	0.45 J
Benzo(a)anthracene	94	12	4.0796	0.5208	0.69 J	0.1457	0.0186	0.33 U	4.3804	0.5592	1.3
Benzo(a)pyrene	- -	- -	- -	- -	0.87 J	- -	- -	0.33 U	- -	- -	1.8
Benzo(b)fluoranthene	- -	- -	- -	- -	0.99	- -	- -	0.33 U	- -	- -	1.9
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.6	- -	- -	0.33 U	- -	- -	2.4
Benzo(k)fluoranthene	- -	- -	- -	- -	0.36 J	- -	- -	0.33 U	- -	- -	0.64 J
Benzyl Alcohol	- -	- -	- -	- -	0.38 J	- -	- -	0.33 U	- -	- -	1.1 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	8.6583	3.5 B	- -	0.3092	0.044 J	- -	9.2967	6.3
Butylbenzylphthalate	- -	- -	- -	- -	0.14 J	- -	- -	0.33 U	- -	- -	0.25 J
Carbazole	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	0.084 J
Chrysene	- -	- -	- -	- -	0.82 J	- -	- -	0.33 U	- -	- -	1.8
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.66 J	- -	- -	0.33 U	- -	- -	0.72 J
Dibenzofuran	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	0.079 J
Diethylphthalate	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Dimethylphthalate	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	0.95 J
Fluoranthene	- -	1,020	- -	44.2680	1.0	- -	1.5810	0.33 U	- -	47.5320	2.2
Fluorene	73	8	3.1682	0.3472	0.089 J	0.1132	0.0124	0.33 U	3.4018	0.3728	0.16 J
Hexachlorobenzene	9,081	5,570	394.1154	241.7380	0.89 U	14.0756	8.6335	0.33 U	423.1746	259.5620	1.1 U
Hexachlorobutadiene	55	5.5	2.3870	0.2387	0.89 U	0.0853	0.0085	0.33 U	2.5630	0.2563	1.1 U
Hexachlorocyclopentadiene	44	4.4	1.9096	0.1910	2.2 U	0.0682	0.0068	0.81 U	2.0504	0.2050	2.6 U
Hexachloroethane	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.4	- -	- -	0.33 U	- -	- -	2.2
Isophorone	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Naphthalene	258	30	11.1972	1.3020	0.18 J	0.3999	0.0465	0.33 U	12.0228	1.3980	0.24 J
Nitrobenzene	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.89 U	- -	- -	0.33 U	- -	- -	1.1 U
Pentachlorophenol	100	40	4.3400	1.7360	2.2 U	0.1550	0.0620	0.81 U	4.6600	1.8640	2.6 U
Phenanthrene	- -	120	- -	5.2080	0.46 J	- -	0.1860	0.33 U	- -	5.5920	0.79 J
Phenol	- -	- -	- -	- -	0.081 J	- -	- -	0.33 U	- -	- -	1.1 U
Pyrene	8,775	961	380.8350	41.7074	2.0	13.6013	1.4896	0.33 U	408.9150	44.7826	4.7
Total PAHs	- -	- -	- -	- -	12 J	- -	- -	0.33 U	- -	- -	22 J
Total Other SVOCs	- -	- -	- -	- -	4.9 J	- -	- -	0.044 J	- -	- -	8.5 J
Total SVOCs	- -	- -	- -	- -	21 J	- -	- -	0.088 J	- -	- -	39 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	43,400	- -	- -	1,550	- -	- -	46,600

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-27			SD-27			SD-28		
Sample Depth(Feet):			0 - 0.5			7 - 8			0 - 0.5		
			05/10/11			05/12/11			05/10/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,2,4-Trichlorobenzene	910	91	41.0410	4.1041	0.93 U	3.8766	0.3877	0.34 U	37.6740	3.7674	0.96 U
1,2-Dichlorobenzene	120	12	5.4120	0.5412	0.93 U	0.5112	0.0511	0.34 U	4.9680	0.4968	0.96 U
1,3-Dichlorobenzene	120	12	5.4120	0.5412	0.93 U	0.5112	0.0511	0.34 U	4.9680	0.4968	0.96 U
1,4-Dichlorobenzene	120	12	5.4120	0.5412	0.93 U	0.5112	0.0511	0.34 U	4.9680	0.4968	0.96 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	5.9 U	- -	- -	2.2 U	- -	- -	6.1 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2,4-Dinitrophenol	- -	- -	- -	- -	5.9 U	- -	- -	2.2 U	- -	- -	6.1 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2-Chloronaphthalene	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2-Chlorophenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2-Methylnaphthalene	304	34	13.7104	1.5334	0.14 J	1.2950	0.1448	0.34 U	12.5856	1.4076	0.13 J
2-Methylphenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
2-Nitroaniline	- -	- -	- -	- -	2.3 U	- -	- -	0.85 U	- -	- -	2.4 U
2-Nitrophenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.1 U	- -	- -	0.42 U	- -	- -	1.2 U
3-Nitroaniline	- -	- -	- -	- -	2.3 U	- -	- -	0.85 U	- -	- -	2.4 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	5.9 U	- -	- -	2.2 U	- -	- -	6.1 U
4-Bromophenyl-phenylether	- -	140	- -	6.3140	0.93 U	- -	0.5964	0.34 U	- -	5.7960	0.96 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
4-Chloroaniline	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
4-Methylphenol	- -	- -	- -	- -	2.7	- -	- -	0.34 U	- -	- -	1.6
4-Nitroaniline	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
4-Nitrophenol	- -	- -	- -	- -	5.9 U	- -	- -	2.2 U	- -	- -	6.1 U
Acenaphthene	- -	- -	- -	- -	0.069 J	- -	- -	0.34 U	- -	- -	0.066 J
Acenaphthylene	- -	- -	- -	- -	0.19 J	- -	- -	0.34 U	- -	- -	0.16 J
Anthracene	986	107	44.4686	4.8257	0.28 J	4.2004	0.4558	0.34 U	40.8204	4.4298	0.24 J
Benzo(a)anthracene	94	12	4.2394	0.5412	0.74 J	0.4004	0.0511	0.020 J	3.8916	0.4968	0.60 J
Benzo(a)pyrene	- -	- -	- -	- -	1.0	- -	- -	0.017 J	- -	- -	0.82 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.0	- -	- -	0.022 J	- -	- -	0.82 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.5	- -	- -	0.34 U	- -	- -	1.4
Benzo(k)fluoranthene	- -	- -	- -	- -	0.36 J	- -	- -	0.34 U	- -	- -	0.25 J
Benzyl Alcohol	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	8.9975	4.5 B	- -	0.8499	0.12 J	- -	8.2593	4.3 B
Butylbenzylphthalate	- -	- -	- -	- -	0.36 J	- -	- -	0.34 U	- -	- -	0.35 J
Carbazole	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Chrysene	- -	- -	- -	- -	0.90 J	- -	- -	0.34 U	- -	- -	0.78 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.61 J	- -	- -	0.34 U	- -	- -	0.45 J
Dibenzofuran	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Diethylphthalate	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Dimethylphthalate	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Fluoranthene	- -	1,020	- -	46.0020	1.0	- -	4.3452	0.028 J	- -	42.2280	0.83 J
Fluorene	73	8	3.2923	0.3608	0.094 J	0.3110	0.0341	0.34 U	3.0222	0.3312	0.087 J
Hexachlorobenzene	9,081	5,570	409.5531	251.2070	0.93 U	38.6851	23.7282	0.34 U	375.9534	230.5980	0.96 U
Hexachlorobutadiene	55	5.5	2.4805	0.2481	0.93 U	0.2343	0.0234	0.34 U	2.2770	0.2277	0.96 U
Hexachlorocyclopentadiene	44	4.4	1.9844	0.1984	2.3 U	0.1874	0.0187	0.85 U	1.8216	0.1822	2.4 U
Hexachloroethane	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.4	- -	- -	0.34 U	- -	- -	1.2
Isophorone	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Naphthalene	258	30	11.6358	1.3530	0.18 J	1.0991	0.1278	0.34 U	10.6812	1.2420	0.16 J
Nitrobenzene	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.93 U	- -	- -	0.34 U	- -	- -	0.96 U
Pentachlorophenol	100	40	4.5100	1.8040	2.3 U	0.4260	0.1704	0.85 U	4.1400	1.6560	2.4 U
Phenanthrene	- -	120	- -	5.4120	0.51 J	- -	0.5112	0.34 U	- -	4.9680	0.43 J
Phenol	- -	- -	- -	- -	0.16 J	- -	- -	0.34 U	- -	- -	0.11 J
Pyrene	8,775	961	395.7525	43.3411	2.4	37.3815	4.0939	0.039 J	363.2850	39.7854	2.7
Total PAHs	- -	- -	- -	- -	12 J	- -	- -	0.13 J	- -	- -	11 J
Total Other SVOCs	- -	- -	- -	- -	7.9 J	- -	- -	0.12 J	- -	- -	6.5 J
Total SVOCs	- -	- -	- -	- -	28 J	- -	- -	0.37 J	- -	- -	24 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	45,100	- -	- -	4,260	- -	- -	41,400

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-28			SD-29			SD-30		
Sample Depth(Feet):			6 - 7			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	15.7430	1.5743	0.50 U	45.6820	4.5682	1.1 U	39.1300	3.9130	0.92 U
1,2-Dichlorobenzene	120	12	2.0760	0.2076	0.50 U	6.0240	0.6024	1.1 U	5.1600	0.5160	0.92 U
1,3-Dichlorobenzene	120	12	2.0760	0.2076	0.50 U	6.0240	0.6024	1.1 U	5.1600	0.5160	0.92 U
1,4-Dichlorobenzene	120	12	2.0760	0.2076	0.50 U	6.0240	0.6024	1.1 U	5.1600	0.5160	0.92 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.7 U	- -	- -	5.8 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2,4-Dinitrophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.7 U	- -	- -	5.8 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2-Chloronaphthalene	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2-Chlorophenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2-Methylnaphthalene	304	34	5.2592	0.5882	0.047 J	15.2608	1.7068	0.15 J	13.0720	1.4620	0.096 J
2-Methylphenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
2-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.6 U	- -	- -	2.3 U
2-Nitrophenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	0.61 U	- -	- -	1.3 U	- -	- -	1.1 U
3-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.6 U	- -	- -	2.3 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	3.1 U	- -	- -	6.7 U	- -	- -	5.8 U
4-Bromophenyl-phenylether	- -	140	- -	2.4220	0.50 U	- -	7.0280	1.1 U	- -	6.0200	0.92 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
4-Chloroaniline	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
4-Methylphenol	- -	- -	- -	- -	0.50 U	- -	- -	0.65 J	- -	- -	2.3
4-Nitroaniline	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
4-Nitrophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.7 U	- -	- -	5.8 U
Acenaphthene	- -	- -	- -	- -	0.096 J	- -	- -	0.12 J	- -	- -	0.92 U
Acenaphthylene	- -	- -	- -	- -	0.044 J	- -	- -	0.24 J	- -	- -	0.12 J
Anthracene	986	107	17.0578	1.8511	0.070 J	49.4972	5.3714	0.39 J	42.3980	4.6010	0.18 J
Benzo(a)anthracene	94	12	1.6262	0.2076	0.19 J	4.7188	0.6024	1.3	4.0420	0.5160	0.49 J
Benzo(a)pyrene	- -	- -	- -	- -	0.18 J	- -	- -	1.5	- -	- -	0.62 J
Benzo(b)fluoranthene	- -	- -	- -	- -	0.20 J	- -	- -	1.6	- -	- -	0.57 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.33 J	- -	- -	2.0	- -	- -	1.1
Benzo(k)fluoranthene	- -	- -	- -	- -	0.059 J	- -	- -	0.70 J	- -	- -	0.23 J
Benzyl Alcohol	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	3.4514	0.42 J	- -	10.0149	5.5	- -	8.5785	2.7 B
Butylbenzylphthalate	- -	- -	- -	- -	0.48 J	- -	- -	0.37 J	- -	- -	0.16 J
Carbazole	- -	- -	- -	- -	0.50 U	- -	- -	0.10 J	- -	- -	0.92 U
Chrysene	- -	- -	- -	- -	0.21 J	- -	- -	1.6	- -	- -	0.62 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.50 U	- -	- -	0.59 J	- -	- -	0.39 J
Dibenzofuran	- -	- -	- -	- -	0.50 U	- -	- -	0.080 J	- -	- -	0.92 U
Diethylphthalate	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Dimethylphthalate	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.50 U	- -	- -	0.96 J	- -	- -	0.92 U
Fluoranthene	- -	1,020	- -	17.6460	0.28 J	- -	51.2040	2.0	- -	43.8600	0.61 J
Fluorene	73	8	1.2629	0.1384	0.045 J	3.6646	0.4016	0.15 J	3.1390	0.3440	0.062 J
Hexachlorobenzene	9,081	5,570	157.1013	96.3610	0.50 U	455.8662	279.6140	1.1 U	390.4830	239.5100	0.92 U
Hexachlorobutadiene	55	5.5	0.9515	0.0952	0.50 U	2.7610	0.2761	1.1 U	2.3650	0.2365	0.92 U
Hexachlorocyclopentadiene	44	4.4	0.7612	0.0761	1.2 U	2.2088	0.2209	2.6 U	1.8920	0.1892	2.3 U
Hexachloroethane	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.33 J	- -	- -	1.7	- -	- -	0.90 J
Isophorone	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Naphthalene	258	30	4.4634	0.5190	0.080 J	12.9516	1.5060	0.19 J	11.0940	1.2900	0.12 J
Nitrobenzene	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.50 U	- -	- -	1.1 U	- -	- -	0.92 U
Pentachlorophenol	100	40	1.7300	0.6920	1.2 U	5.0200	2.0080	2.6 U	4.3000	1.7200	2.3 U
Phenanthrene	- -	120	- -	2.0760	0.23 J	- -	6.0240	0.92 J	- -	5.1600	0.32 J
Phenol	- -	- -	- -	- -	0.50 U	- -	- -	0.14 J	- -	- -	0.92 U
Pyrene	8,775	961	151.8075	16.6253	0.42 J	440.5050	48.2422	4.0	377.3250	41.3230	2.0
Total PAHs	- -	- -	- -	- -	2.8 J	- -	- -	19 J	- -	- -	8.3 J
Total Other SVOCs	- -	- -	- -	- -	0.95 J	- -	- -	8.0 J	- -	- -	5.3 J
Total SVOCs	- -	- -	- -	- -	4.7 J	- -	- -	35 J	- -	- -	19 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	17,300	- -	- -	50,200	- -	- -	43,000

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-30			SD-31			SD-31		
Sample Depth(Feet):			8.5 - 9.5			0 - 0.5			11.5 - 12.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	12.8310	1.2831	0.45 U	41.7690	4.1769	0.94 U	3.1668	0.3167	0.31 U
1,2-Dichlorobenzene	120	12	1.6920	0.1692	0.45 U	5.5080	0.5508	0.94 U	0.4176	0.0418	0.31 U
1,3-Dichlorobenzene	120	12	1.6920	0.1692	0.45 U	5.5080	0.5508	0.94 U	0.4176	0.0418	0.31 U
1,4-Dichlorobenzene	120	12	1.6920	0.1692	0.45 U	5.5080	0.5508	0.94 U	0.4176	0.0418	0.31 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	2.8 U	- -	- -	5.9 U	- -	- -	2.0 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2,4-Dinitrophenol	- -	- -	- -	- -	2.8 U	- -	- -	5.9 U	- -	- -	2.0 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2-Chloronaphthalene	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2-Chlorophenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2-Methylnaphthalene	304	34	4.2864	0.4794	0.45 U	13.9536	1.5606	0.11 J	1.0579	0.1183	0.31 U
2-Methylphenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
2-Nitroaniline	- -	- -	- -	- -	1.1 U	- -	- -	2.3 U	- -	- -	0.77 U
2-Nitrophenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	0.55 U	- -	- -	1.2 U	- -	- -	0.38 U
3-Nitroaniline	- -	- -	- -	- -	1.1 U	- -	- -	2.3 U	- -	- -	0.77 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	2.8 U	- -	- -	5.9 U	- -	- -	2.0 U
4-Bromophenyl-phenylether	- -	140	- -	1.9740	0.45 U	- -	6.4260	0.94 U	- -	0.4872	0.31 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
4-Chloroaniline	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
4-Methylphenol	- -	- -	- -	- -	0.45 U	- -	- -	7.7	- -	- -	0.31 U
4-Nitroaniline	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
4-Nitrophenol	- -	- -	- -	- -	2.8 U	- -	- -	5.9 U	- -	- -	2.0 U
Acenaphthene	- -	- -	- -	- -	0.45 U	- -	- -	0.062 J	- -	- -	0.31 U
Acenaphthylene	- -	- -	- -	- -	0.45 U	- -	- -	0.13 J	- -	- -	0.31 U
Anthracene	986	107	13.9026	1.5087	0.45 U	45.2574	4.9113	0.21 J	3.4313	0.3724	0.31 U
Benzo(a)anthracene	94	12	1.3254	0.1692	0.45 U	4.3146	0.5508	0.58 J	0.3271	0.0418	0.31 U
Benzo(a)pyrene	- -	- -	- -	- -	0.45 U	- -	- -	0.78 J	- -	- -	0.31 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.45 U	- -	- -	0.74 J	- -	- -	0.31 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.45 U	- -	- -	1.3	- -	- -	0.31 U
Benzo(k)fluoranthene	- -	- -	- -	- -	0.45 U	- -	- -	0.26 J	- -	- -	0.31 U
Benzyl Alcohol	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	2.8130	0.048 J	- -	9.1571	5.0 B	- -	0.6943	1.5
Butylbenzylphthalate	- -	- -	- -	- -	0.45 U	- -	- -	0.27 J	- -	- -	0.018 J
Carbazole	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Chrysene	- -	- -	- -	- -	0.45 U	- -	- -	0.77 J	- -	- -	0.31 U
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.45 U	- -	- -	0.43 J	- -	- -	0.31 U
Dibenzofuran	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Diethylphthalate	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Dimethylphthalate	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.046 J
Di-n-Octylphthalate	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Fluoranthene	- -	1,020	- -	14.3820	0.040 J	- -	46.8180	0.80 J	- -	3.5496	0.31 U
Fluorene	73	8	1.0293	0.1128	0.45 U	3.3507	0.3672	0.079 J	0.2540	0.0278	0.31 U
Hexachlorobenzene	9,081	5,570	128.0421	78.5370	0.45 U	416.8179	255.6630	0.94 U	31.6019	19.3836	0.31 U
Hexachlorobutadiene	55	5.5	0.7755	0.0776	0.45 U	2.5245	0.2525	0.94 U	0.1914	0.0191	0.31 U
Hexachlorocyclopentadiene	44	4.4	0.6204	0.0620	1.1 U	2.0196	0.2020	2.3 U	0.1531	0.0153	0.77 U
Hexachloroethane	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.45 U	- -	- -	1.1	- -	- -	0.31 U
Isophorone	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Naphthalene	258	30	3.6378	0.4230	0.45 U	11.8422	1.3770	0.15 J	0.8978	0.1044	0.31 U
Nitrobenzene	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.45 U	- -	- -	0.94 U	- -	- -	0.31 U
Pentachlorophenol	100	40	1.4100	0.5640	1.1 U	4.5900	1.8360	2.3 U	0.3480	0.1392	0.77 U
Phenanthrene	- -	120	- -	1.6920	0.023 J	- -	5.5080	0.44 J	- -	0.4176	0.31 U
Phenol	- -	- -	- -	- -	0.45 U	- -	- -	0.27 J	- -	- -	0.31 U
Pyrene	8,775	961	123.7275	13.5501	0.033 J	402.7725	44.1099	2.6	30.5370	3.3443	0.016 J
Total PAHs	- -	- -	- -	- -	0.096 J	- -	- -	10 J	- -	- -	0.016 J
Total Other SVOCs	- -	- -	- -	- -	0.048 J	- -	- -	13 J	- -	- -	1.6 J
Total SVOCs	- -	- -	- -	- -	0.19 J	- -	- -	37 J	- -	- -	3.1 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	14,100	- -	- -	45,900	- -	- -	3,480

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-32			SD-33			SD-33		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			10.5 - 11.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	43.7710	4.3771	1.0 U	40.6770	4.0677	0.94 U	0.7007	0.0701	0.38 U
1,2-Dichlorobenzene	120	12	5.7720	0.5772	1.0 U	5.3640	0.5364	0.94 U	0.0924	0.0092	0.38 U
1,3-Dichlorobenzene	120	12	5.7720	0.5772	1.0 U	5.3640	0.5364	0.94 U	0.0924	0.0092	0.38 U
1,4-Dichlorobenzene	120	12	5.7720	0.5772	1.0 U	5.3640	0.5364	0.94 U	0.0924	0.0092	0.38 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	6.4 U	- -	- -	5.9 U	- -	- -	2.4 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2,4-Dichlorophenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2,4-Dimethylphenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2,4-Dinitrophenol	- -	- -	- -	- -	6.4 U	- -	- -	5.9 U	- -	- -	2.4 U
2,4-Dinitrotoluene	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2,6-Dinitrotoluene	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2-Chloronaphthalene	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2-Chlorophenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2-Methylnaphthalene	304	34	14.6224	1.6354	0.064 J	13.5888	1.5198	0.065 J	0.23408	0.0262	0.38 U
2-Methylphenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
2-Nitroaniline	- -	- -	- -	- -	2.5 U	- -	- -	2.3 U	- -	- -	0.95 U
2-Nitrophenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.2 U	- -	- -	1.1 U	- -	- -	0.47 U
3-Nitroaniline	- -	- -	- -	- -	2.5 U	- -	- -	2.3 U	- -	- -	0.95 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	6.4 U	- -	- -	5.9 U	- -	- -	2.4 U
4-Bromophenyl-phenylether	- -	140	- -	6.7340	1.0 U	- -	6.2580	0.94 U	- -	0.1078	0.38 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
4-Chloroaniline	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
4-Methylphenol	- -	- -	- -	- -	0.61 J	- -	- -	1.1	- -	- -	0.38 U
4-Nitroaniline	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
4-Nitrophenol	- -	- -	- -	- -	6.4 U	- -	- -	5.9 U	- -	- -	2.4 U
Acenaphthene	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Acenaphthylene	- -	- -	- -	- -	0.11 J	- -	- -	0.099 J	- -	- -	0.38 U
Anthracene	986	107	47.4266	5.1467	0.17 J	44.0742	4.7829	0.14 J	0.75922	0.0824	0.38 U
Benzo(a)anthracene	94	12	4.5214	0.5772	0.51 J	4.2018	0.5364	0.41 J	0.07238	0.0092	0.38 U
Benzo(a)pyrene	- -	- -	- -	- -	0.61 J	- -	- -	0.53 J	- -	- -	0.38 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.59 J	- -	- -	0.46 J	- -	- -	0.38 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.2	- -	- -	0.99	- -	- -	0.38 U
Benzo(k)fluoranthene	- -	- -	- -	- -	0.17 J	- -	- -	0.18 J	- -	- -	0.38 U
Benzyl Alcohol	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	9.5960	4.1 B	- -	8.9177	2.7 B	- -	0.1536	0.38 U
Butylbenzylphthalate	- -	- -	- -	- -	0.31 J	- -	- -	0.17 J	- -	- -	0.38 U
Carbazole	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Chrysene	- -	- -	- -	- -	0.66 J	- -	- -	0.48 J	- -	- -	0.38 U
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.36 J	- -	- -	0.36 J	- -	- -	0.38 U
Dibenzofuran	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Diethylphthalate	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Dimethylphthalate	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Di-n-Butylphthalate	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Di-n-Octylphthalate	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Fluoranthene	- -	1,020	- -	49.0620	0.69 J	- -	45.5940	0.54 J	- -	0.7854	0.38 U
Fluorene	73	8	3.5113	0.3848	0.066 J	3.2631	0.3576	0.94 U	0.05621	0.0062	0.38 U
Hexachlorobenzene	9,081	5,570	436.7961	267.9170	1.0 U	405.9207	248.9790	0.94 U	6.99237	4.2889	0.38 U
Hexachlorobutadiene	55	5.5	2.6455	0.2646	1.0 U	2.4585	0.2459	0.94 U	0.04235	0.0042	0.38 U
Hexachlorocyclopentadiene	44	4.4	2.1164	0.2116	2.5 U	1.9668	0.1967	2.3 U	0.03388	0.0034	0.95 U
Hexachloroethane	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.97 J	- -	- -	0.77 J	- -	- -	0.38 U
Isophorone	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Naphthalene	258	30	12.4098	1.4430	0.088 J	11.5326	1.3410	0.087 J	0.19866	0.0231	0.38 U
Nitrobenzene	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	1.0 U	- -	- -	0.94 U	- -	- -	0.38 U
Pentachlorophenol	100	40	4.8100	1.9240	2.5 U	4.4700	1.7880	2.3 U	0.077	0.0308	0.95 U
Phenanthrene	- -	120	- -	5.7720	0.42 J	- -	5.3640	0.28 J	- -	0.0924	0.38 U
Phenol	- -	- -	- -	- -	0.13 J	- -	- -	0.94 U	- -	- -	0.38 U
Pyrene	8,775	961	422.0775	46.2241	2.1	392.2425	42.9567	1.8	6.75675	0.7400	0.38 U
Total PAHs	- -	- -	- -	- -	8.7 J	- -	- -	7.1 J	- -	- -	0.38 U
Total Other SVOCs	- -	- -	- -	- -	5.2 J	- -	- -	4.0 J	- -	- -	2.4 U
Total SVOCs	- -	- -	- -	- -	19 J	- -	- -	15 J	- -	- -	2.4 U
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	48,100	- -	- -	44,700	- -	- -	770

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (m

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-34			SD-34			SD-35		
Sample Depth(Feet):			0 - 0.5			9 - 10			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 Analytical Result	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	38.40[39.77]	3.84[3.98]	1.0 U [1.1 U]	0.5879	0.0588	0.35 U	39.7670	3.9767	0.66 U
1,2-Dichlorobenzene	120	12	5.06[5.24]	0.51[0.52]	1.0 U [1.1 U]	0.0775	0.0078	0.35 U	5.2440	0.5244	0.66 U
1,3-Dichlorobenzene	120	12	5.06[5.24]	0.51[0.52]	1.0 U [1.1 U]	0.0775	0.0078	0.35 U	5.2440	0.5244	0.66 U
1,4-Dichlorobenzene	120	12	5.06[5.24]	0.51[0.52]	1.0 U [1.1 U]	0.0775	0.0078	0.35 U	5.2440	0.5244	0.66 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	6.4 U [6.8 U]	- -	- -	2.2 U	- -	- -	4.2 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2,4-Dichlorophenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2,4-Dimethylphenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2,4-Dinitrophenol	- -	- -	- -	- -	6.4 U [6.8 U]	- -	- -	2.2 U	- -	- -	4.2 U
2,4-Dinitrotoluene	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2,6-Dinitrotoluene	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2-Chloronaphthalene	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2-Chlorophenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2-Methylnaphthalene	304	34	12.83[13.29]	1.44[1.49]	0.084 J [0.11 J	0.1964	0.0220	0.35 U	13.2848	1.4858	0.062 J
2-Methylphenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
2-Nitroaniline	- -	- -	- -	- -	2.5 U [2.7 U]	- -	- -	0.87 U	- -	- -	1.6 U
2-Nitrophenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.2 U [1.3 U]	- -	- -	0.43 U	- -	- -	0.81 U
3-Nitroaniline	- -	- -	- -	- -	2.5 U [2.7 U]	- -	- -	0.87 U	- -	- -	1.6 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	6.4 U [6.8 U]	- -	- -	2.2 U	- -	- -	4.2 U
4-Bromophenyl-phenylether	- -	140	- -	5.91[6.12]	1.0 U [1.1 U]	- -	0.0904	0.35 U	- -	6.1180	0.66 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
4-Chloroaniline	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
4-Methylphenol	- -	- -	- -	- -	0.97 J [0.087 J	- -	- -	0.35 U	- -	- -	0.66 U
4-Nitroaniline	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
4-Nitrophenol	- -	- -	- -	- -	6.4 U [6.8 U]	- -	- -	2.2 U	- -	- -	4.2 U
Acenaphthene	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.047 J
Acenaphthylene	- -	- -	- -	- -	0.13 J [0.13 J]	- -	- -	0.35 U	- -	- -	0.12 J
Anthracene	986	107	41.61[43.09]	4.52[4.68]	0.17 J [0.22 J]	0.6370	0.0691	0.35 U	43.0882	4.6759	0.15 J
Benzo(a)anthracene	94	12	3.97[4.11]	0.51[0.52]	0.55 J [0.63 J]	0.0607	0.0078	0.35 U	4.1078	0.5244	0.55 J
Benzo(a)pyrene	- -	- -	- -	- -	0.67 J [0.80 J]	- -	- -	0.35 U	- -	- -	0.61 J
Benzo(b)fluoranthene	- -	- -	- -	- -	0.74 J [0.86 J]	- -	- -	0.35 U	- -	- -	0.61 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.3 [1.4]	- -	- -	0.35 U	- -	- -	1.1
Benzo(k)fluoranthene	- -	- -	- -	- -	0.28 J [0.35 J]	- -	- -	0.35 U	- -	- -	0.27 J
Benzyl Alcohol	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
bis(2-Chloroethoxy)methane	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	8.42[8.72]	2.2 [4.7 B]	- -	0.1289	0.35 U	- -	8.7182	2.3 B
Butylbenzylphthalate	- -	- -	- -	- -	0.15 J [0.22 J]	- -	- -	0.35 U	- -	- -	0.14 J
Carbazole	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.041 J
Chrysene	- -	- -	- -	- -	0.65 J [0.78 J]	- -	- -	0.35 U	- -	- -	0.67
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.71 J [0.77 J]	- -	- -	0.35 U	- -	- -	0.32 J
Dibenzofuran	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Diethylphthalate	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Dimethylphthalate	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Di-n-Butylphthalate	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.11 J
Di-n-Octylphthalate	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Fluoranthene	- -	1,020	- -	43.04[44.57]	0.81 J [1.0 J]	- -	0.6589	0.35 U	- -	44.5740	0.76
Fluorene	73	8	3.081[3.19]	0.34[0.35]	1.0 U [0.086 J]	0.0472	0.0052	0.35 U	3.1901	0.3496	0.057 J
Hexachlorobenzene	9,081	5,570	383.22[396.84]	235.05[243.41]	1.0 U [1.1 U]	5.8663	3.5982	0.35 U	396.8397	243.4090	0.66 U
Hexachlorobutadiene	55	5.5	2.32[2.40]	0.23[0.24]	1.0 U [1.1 U]	0.0355	0.0036	0.35 U	2.4035	0.2404	0.66 U
Hexachlorocyclopentadiene	44	4.4	1.86[1.92]	0.19[0.19]	2.5 U [2.7 U]	0.0284	0.0028	0.87 U	1.9228	0.1923	1.6 U
Hexachloroethane	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.1 [1.3]	- -	- -	0.35 U	- -	- -	1.0
Isophorone	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Naphthalene	258	30	10.80[11.28]	1.27[1.31]	0.13 J [0.16 J]	0.1667	0.0194	0.35 U	11.2746	1.3110	0.070 J
Nitrobenzene	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	1.0 U [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Pentachlorophenol	100	40	4.22[4.37]	1.69[1.75]	2.5 U [2.7 U]	0.0646	0.0258	0.87 U	4.3700	1.7480	1.6 U
Phenanthrene	- -	120	- -	5.06[5.24]	0.34 J [0.44 J]	- -	0.0775	0.35 U	- -	5.2440	0.40 J
Phenol	- -	- -	- -	- -	0.085 J [1.1 U]	- -	- -	0.35 U	- -	- -	0.66 U
Pyrene	8,775	961	370.31[383.47]	40.55[42.00]	1.5 [2.0]	5.6687	0.6208	0.35 U	383.4675	41.9957	2.1
Total PAHs	- -	- -	- -	- -	9.1 J [11 J]	- -	- -	0.35 U	- -	- -	8.8 J
Total Other SVOCs	- -	- -	- -	- -	3.5 J [5.1 J]	- -	- -	2.2 U	- -	- -	2.7 J
Total SVOCs	- -	- -	- -	- -	16 J [21 J]	- -	- -	2.2 U	- -	- -	14 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	42,200 [43,700	- -	- -	646	- -	- -	43,700

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-35			SD-36			SD-36		
Sample Depth(Feet):			4 - 5			0 - 0.5			13.8 - 14.8		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/10/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/10/11 Analytical Result	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/12/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/12/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	16.4710	1.6471	0.49 U	40.2220	4.0222	1.0 U	0.3058	0.0306	0.39 U
1,2-Dichlorobenzene	120	12	2.1720	0.2172	0.49 U	5.3040	0.5304	1.0 U	0.0403	0.0040	0.39 U
1,3-Dichlorobenzene	120	12	2.1720	0.2172	0.49 U	5.3040	0.5304	1.0 U	0.0403	0.0040	0.39 U
1,4-Dichlorobenzene	120	12	2.1720	0.2172	0.49 U	5.3040	0.5304	1.0 U	0.0403	0.0040	0.39 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.3 U	- -	- -	2.4 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2,4-Dinitrophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.3 U	- -	- -	2.4 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2-Chloronaphthalene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2-Chlorophenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2-Methylnaphthalene	304	34	5.5024	0.6154	0.49 U	13.4368	1.5028	0.066 J	0.1021	0.0114	0.39 U
2-Methylphenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
2-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.5 U	- -	- -	0.97 U
2-Nitrophenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	0.60 U	- -	- -	1.2 U	- -	- -	0.48 U
3-Nitroaniline	- -	- -	- -	- -	1.2 U	- -	- -	2.5 U	- -	- -	0.97 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	3.1 U	- -	- -	6.3 U	- -	- -	2.4 U
4-Bromophenyl-phenylether	- -	140	- -	2.5340	0.49 U	- -	6.1880	1.0 U	- -	0.0470	0.39 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
4-Chloroaniline	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
4-Methylphenol	- -	- -	- -	- -	0.49 U	- -	- -	0.57 J	- -	- -	0.39 U
4-Nitroaniline	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
4-Nitrophenol	- -	- -	- -	- -	3.1 U	- -	- -	6.3 U	- -	- -	2.4 U
Acenaphthene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Acenaphthylene	- -	- -	- -	- -	0.49 U	- -	- -	0.098 J	- -	- -	0.39 U
Anthracene	986	107	17.8466	1.9367	0.49 U	43.5812	4.7294	0.15 J	0.3313	0.0360	0.39 U
Benzo(a)anthracene	94	12	1.7014	0.2172	0.49 U	4.1548	0.5304	0.45 J	0.0316	0.0040	0.39 U
Benzo(a)pyrene	- -	- -	- -	- -	0.49 U	- -	- -	0.54 J	- -	- -	0.39 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.49 U	- -	- -	0.67 J	- -	- -	0.39 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.49 U	- -	- -	1.2	- -	- -	0.39 U
Benzo(k)fluoranthene	- -	- -	- -	- -	0.49 U	- -	- -	0.26 J	- -	- -	0.39 U
Benzyl Alcohol	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	3.6110	0.42 J	- -	8.8179	1.7 B	- -	0.0670	0.22 J
Butylbenzylphthalate	- -	- -	- -	- -	0.47 J	- -	- -	0.093 J	- -	- -	0.39 U
Carbazole	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Chrysene	- -	- -	- -	- -	0.49 U	- -	- -	0.52 J	- -	- -	0.39 U
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Dibenzofuran	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Diethylphthalate	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Dimethylphthalate	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Fluoranthene	- -	1,020	- -	18.4620	0.49 U	- -	45.0840	0.70 J	- -	0.3427	0.39 U
Fluorene	73	8	1.3213	0.1448	0.49 U	3.2266	0.3536	1.0 U	0.0245	0.0027	0.39 U
Hexachlorobenzene	9,081	5,570	164.3661	100.8170	0.49 U	401.3802	246.1940	1.0 U	3.0512	1.8715	0.39 U
Hexachlorobutadiene	55	5.5	0.9955	0.0996	0.49 U	2.4310	0.2431	1.0 U	0.0185	0.0018	0.39 U
Hexachlorocyclopentadiene	44	4.4	0.7964	0.0796	1.2 U	1.9448	0.1945	2.5 U	0.0148	0.0015	0.97 U
Hexachloroethane	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.49 U	- -	- -	0.90 J	- -	- -	0.39 U
Isophorone	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Naphthalene	258	30	4.6698	0.5430	0.49 U	11.4036	1.3260	0.092 J	0.0867	0.0101	0.39 U
Nitrobenzene	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.49 U	- -	- -	1.0 U	- -	- -	0.39 U
Pentachlorophenol	100	40	1.8100	0.7240	1.2 U	4.4200	1.7680	2.5 U	0.0336	0.0134	0.97 U
Phenanthrene	- -	120	- -	2.1720	0.49 U	- -	5.3040	0.29 J	- -	0.0403	0.39 U
Phenol	- -	- -	- -	- -	0.49 U	- -	- -	0.093 J	- -	- -	0.39 U
Pyrene	8,775	961	158.8275	17.3941	0.49 U	387.8550	42.4762	1.1	2.9484	0.3229	0.39 U
Total PAHs	- -	- -	- -	- -	0.49 U	- -	- -	7.0 J	- -	- -	0.39 U
Total Other SVOCs	- -	- -	- -	- -	0.89 J	- -	- -	2.5 J	- -	- -	0.22 J
Total SVOCs	- -	- -	- -	- -	1.8 J	- -	- -	12 J	- -	- -	0.44 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	18,100	- -	- -	44,200	- -	- -	336

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-37			SD-37			SD-38		
Sample Depth(Feet):			0 - 0.5			6 - 7			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 Analytical Result	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/09/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/09/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	42.4060	4.2406	0.98 U	0.1911	0.0191	0.30 U	37.1280	3.7128	4.7 U
1,2-Dichlorobenzene	120	12	5.5920	0.5592	0.98 U	0.0252	0.0025	0.30 U	4.8960	0.4896	4.7 U
1,3-Dichlorobenzene	120	12	5.5920	0.5592	0.98 U	0.0252	0.0025	0.30 U	4.8960	0.4896	4.7 U
1,4-Dichlorobenzene	120	12	5.5920	0.5592	0.98 U	0.0252	0.0025	0.30 U	4.8960	0.4896	4.7 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	6.1 U	- -	- -	1.9 U	- -	- -	30 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2,4-Dinitrophenol	- -	- -	- -	- -	6.1 U	- -	- -	1.9 U	- -	- -	30 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2-Chloronaphthalene	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2-Chlorophenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2-Methylnaphthalene	304	34	14.1664	1.5844	0.10 J	0.0638	0.0071	0.30 U	12.4032	1.3872	4.7 U
2-Methylphenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
2-Nitroaniline	- -	- -	- -	- -	2.4 U	- -	- -	0.75 U	- -	- -	12 U
2-Nitrophenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	1.2 U	- -	- -	0.37 U	- -	- -	5.8 U
3-Nitroaniline	- -	- -	- -	- -	2.4 U	- -	- -	0.75 U	- -	- -	12 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	6.1 U	- -	- -	1.9 U	- -	- -	30 U
4-Bromophenyl-phenylether	- -	140	- -	6.5240	0.98 U	- -	0.0294	0.30 U	- -	5.7120	4.7 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
4-Chloroaniline	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
4-Methylphenol	- -	- -	- -	- -	0.51 J	- -	- -	0.30 U	- -	- -	4.7 U
4-Nitroaniline	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
4-Nitrophenol	- -	- -	- -	- -	6.1 U	- -	- -	1.9 U	- -	- -	30 U
Acenaphthene	- -	- -	- -	- -	0.064 J	- -	- -	0.30 U	- -	- -	4.7 U
Acenaphthylene	- -	- -	- -	- -	0.14 J	- -	- -	0.30 U	- -	- -	4.7 U
Anthracene	986	107	45.9476	4.9862	0.24 J	0.2071	0.0225	0.30 U	40.2288	4.3656	4.7 U
Benzo(a)anthracene	94	12	4.3804	0.5592	0.66 J	0.0197	0.0025	0.30 U	3.8352	0.4896	0.50 J
Benzo(a)pyrene	- -	- -	- -	- -	0.82 J	- -	- -	0.30 U	- -	- -	0.63 J
Benzo(b)fluoranthene	- -	- -	- -	- -	0.95 J	- -	- -	0.30 U	- -	- -	0.81 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.3	- -	- -	0.30 U	- -	- -	3.9 J
Benzo(k)fluoranthene	- -	- -	- -	- -	0.39 J	- -	- -	0.30 U	- -	- -	4.7 U
Benzyl Alcohol	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	9.2967	3.8 B	- -	0.0419	0.30 U	- -	8.1396	3.0 J
Butylbenzylphthalate	- -	- -	- -	- -	0.22 J	- -	- -	0.30 U	- -	- -	4.7 U
Carbazole	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Chrysene	- -	- -	- -	- -	0.85 J	- -	- -	0.30 U	- -	- -	0.64 J
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.70 J	- -	- -	0.30 U	- -	- -	4.7 U
Dibenzofuran	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Diethylphthalate	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Dimethylphthalate	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Fluoranthene	- -	1,020	- -	47.5320	1.1	- -	0.2142	0.30 U	- -	41.6160	0.81 J
Fluorene	73	8	3.4018	0.3728	0.086 J	0.0153	0.0017	0.30 U	2.9784	0.3264	4.7 U
Hexachlorobenzene	9,081	5,570	423.1746	259.5620	0.98 U	1.9070	1.1697	0.30 U	370.5048	227.2560	4.7 U
Hexachlorobutadiene	55	5.5	2.5630	0.2563	0.98 U	0.0116	0.0012	0.30 U	2.2440	0.2244	4.7 U
Hexachlorocyclopentadiene	44	4.4	2.0504	0.2050	2.4 U	0.0092	0.0009	0.75 U	1.7952	0.1795	12 U
Hexachloroethane	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.2	- -	- -	0.30 U	- -	- -	4.7 U
Isophorone	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Naphthalene	258	30	12.0228	1.3980	0.14 J	0.0542	0.0063	0.30 U	10.5264	1.2240	4.7 U
Nitrobenzene	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.98 U	- -	- -	0.30 U	- -	- -	4.7 U
Pentachlorophenol	100	40	4.6600	1.8640	2.4 U	0.0210	0.0084	0.75 U	4.0800	1.6320	12 U
Phenanthrene	- -	120	- -	5.5920	0.50 J	- -	0.0252	0.30 U	- -	4.8960	0.33 J
Phenol	- -	- -	- -	- -	0.097 J	- -	- -	0.30 U	- -	- -	4.7 U
Pyrene	8,775	961	408.9150	44.7826	1.9	1.8428	0.2018	0.30 U	358.0200	39.2088	1.5 J
Total PAHs	- -	- -	- -	- -	11 J	- -	- -	0.30 U	- -	- -	9.1 J
Total Other SVOCs	- -	- -	- -	- -	4.7 J	- -	- -	1.9 U	- -	- -	3.0 J
Total SVOCs	- -	- -	- -	- -	21 J	- -	- -	1.9 U	- -	- -	15 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	46,600	- -	- -	210	- -	- -	40,800

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4
Summary of Sediment Sample Analytical Results - TCL SVOCs (mg

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inves
Bronx, New York

Location ID:			SD-38			SD-39			SD-39		
Sample Depth(Feet):			7 - 8			0 - 0.5			9.5 - 10.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,2,4-Trichlorobenzene	910	91	0.66339	0.066339	0.30 U	42.2240	4.2224	4.5 U	0.2994	0.0299	0.31 U
1,2-Dichlorobenzene	120	12	0.08748	0.008748	0.30 U	5.5680	0.5568	4.5 U	0.0395	0.0039	0.31 U
1,3-Dichlorobenzene	120	12	0.08748	0.008748	0.30 U	5.5680	0.5568	4.5 U	0.0395	0.0039	0.31 U
1,4-Dichlorobenzene	120	12	0.08748	0.008748	0.30 U	5.5680	0.5568	4.5 U	0.0395	0.0039	0.31 U
2,2'-oxybis[1-chloropropane	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2,4,5-Trichlorophenol	- -	- -	- -	- -	1.9 U	- -	- -	29 U	- -	- -	2.0 U
2,4,6-Trichlorophenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2,4-Dichlorophenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2,4-Dimethylphenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2,4-Dinitrophenol	- -	- -	- -	- -	1.9 U	- -	- -	29 U	- -	- -	2.0 U
2,4-Dinitrotoluene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2,6-Dinitrotoluene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2-Chloronaphthalene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2-Chlorophenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2-Methylnaphthalene	304	34	0.221616	0.024786	0.30 U	14.1056	1.5776	4.5 U	0.1000	0.0112	0.31 U
2-Methylphenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
2-Nitroaniline	- -	- -	- -	- -	0.75 U	- -	- -	11 U	- -	- -	0.78 U
2-Nitrophenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
3,3'-Dichlorobenzidine	- -	- -	- -	- -	0.37 U	- -	- -	5.5 U	- -	- -	0.38 U
3-Nitroaniline	- -	- -	- -	- -	0.75 U	- -	- -	11 U	- -	- -	0.78 U
4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	1.9 U	- -	- -	29 U	- -	- -	2.0 U
4-Bromophenyl-phenylether	- -	140	- -	0.10206	0.30 U	- -	6.4960	4.5 U	- -	0.0461	0.31 U
4-Chloro-3-Methylphenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
4-Chloroaniline	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
4-Chlorophenyl-phenylether	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
4-Methylphenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
4-Nitroaniline	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
4-Nitrophenol	- -	- -	- -	- -	1.9 U	- -	- -	29 U	- -	- -	2.0 U
Acenaphthene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Acenaphthylene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Anthracene	986	107	0.718794	0.078003	0.30 U	45.7504	4.9648	4.5 U	0.3244	0.0352	0.31 U
Benzo(a)anthracene	94	12	0.068526	0.008748	0.30 U	4.3616	0.5568	0.39 J	0.0309	0.0039	0.31 U
Benzo(a)pyrene	- -	- -	- -	- -	0.30 U	- -	- -	0.48 J	- -	- -	0.31 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.30 U	- -	- -	0.63 J	- -	- -	0.31 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.30 U	- -	- -	3.6 J	- -	- -	0.31 U
Benzo(k)fluoranthene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Benzyl Alcohol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
bis(2-Chloroethoxy)methan	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
bis(2-Chloroethyl)ether	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
bis(2-Ethylhexyl)phthalate	- -	199.5	- -	0.1454355	0.067 J	- -	9.2568	2.4 J	- -	0.0656	0.050 J
Butylbenzylphthalate	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Carbazole	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Chrysene	- -	- -	- -	- -	0.30 U	- -	- -	0.47 J	- -	- -	0.31 U
Dibenzo(a,h)anthracene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Dibenzofuran	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Diethylphthalate	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Dimethylphthalate	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Di-n-Butylphthalate	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Di-n-Octylphthalate	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Fluoranthene	- -	1,020	- -	0.74358	0.30 U	- -	47.3280	0.60 J	- -	0.3356	0.31 U
Fluorene	73	8	0.053217	0.005832	0.30 U	3.3872	0.3712	4.5 U	0.0240	0.0026	0.31 U
Hexachlorobenzene	9,081	5,570	6.620049	4.06053	0.30 U	421.3584	258.4480	4.5 U	2.9876	1.8325	0.31 U
Hexachlorobutadiene	55	5.5	0.040095	0.0040095	0.30 U	2.5520	0.2552	4.5 U	0.0181	0.0018	0.31 U
Hexachlorocyclopentadiene	44	4.4	0.032076	0.0032076	0.75 U	2.0416	0.2042	11 U	0.0145	0.0014	0.78 U
Hexachloroethane	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Isophorone	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Naphthalene	258	30	0.188082	0.02187	0.30 U	11.9712	1.3920	4.5 U	0.0849	0.0099	0.31 U
Nitrobenzene	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
N-Nitroso-di-n-propylamine	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
N-Nitrosodiphenylamine	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Pentachlorophenol	100	40	0.0729	0.02916	0.75 U	4.6400	1.8560	11 U	0.0329	0.0132	0.78 U
Phenanthrene	- -	120	- -	0.08748	0.30 U	- -	5.5680	0.25 J	- -	0.0395	0.31 U
Phenol	- -	- -	- -	- -	0.30 U	- -	- -	4.5 U	- -	- -	0.31 U
Pyrene	8,775	961	6.396975	0.700569	0.30 U	407.1600	44.5904	0.97 J	2.8870	0.3162	0.31 U
Total PAHs	- -	- -	- -	- -	0.30 U	- -	- -	7.4 J	- -	- -	0.31 U
Total Other SVOCs	- -	- -	- -	- -	0.067 J	- -	- -	2.4 J	- -	- -	0.050 J
Total SVOCs	- -	- -	- -	- -	0.13 J	- -	- -	12 J	- -	- -	0.10 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	729	- -	- -	46,400	- -	- -	329

Notes:

1 Benthic screening criteria are presented in micrograms per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 21 of 21 for an example calculation.

2 The sample was biphasic upon extraction. The result presented is from the bottom layer.

Table 3-4

Summary of Sediment Sample Analytical Results - PAHs

Remedial Investigation

Consolidated Edison Company of New York, Inc.

Former Unionport Works Site - Westchester Creek Sediment Investigation

Bronx, New York

Notes:

1 Sediment screening levels are from the New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments" dated January 25, 1999. Benthic screening levels, which are presented in micrograms per gram organic carbon (ug/gOC), are adjusted for each sample based on sample-specific Total Organic Carbon (TOC) concentrations. For example, for anthracene (benthic aquatic life chronic value of 107ug/g OC and acute value of 986 ug/g OC) and sample BG-01-10 (TOC of 9.2% or 92 g OC/kg), the criteria are adjusted as follows:

Benthic Aquatic Life Chronic Toxicity: (107 ug/g OC) * (92 g OC/kg) = 9844 ug/kg or 9.84 mg/kg

Benthic Aquatic Life Acute Toxicity: (986 ug/g OC) * (92 g OC/kg) = 90712 ug/kg or 90.7 mg/kg

2 All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
Total polycyclic aromatic hydrocarbons (PAHs) is the sum of the 16 individual priority pollutant PAHs listed in the Appendix A to 40 Code of Federal Regulations (CFR) Part 423.

3 TCL = target compound list

4 SVOC = semi-volatile organic compound

5 PAH = polycyclic aromatic hydrocarbon

6 Duplicate sample results are shown in brackets.

Data Qualifiers

* Laboratory duplicate analysis was outside control limits.

B indicates analyte was also detected in the associated method blank.

D indicates compound quantitated using a secondary dilution.

J indicates an estimated value.

R indicates the value was rejected.

U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-01			BG-02			BG-03			BG-04		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/17/11			05/17/11			05/16/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.53	- -	- -	0.649	- -	- -	0.266	- -	- -	0.286
Acenaphthylene	- -	- -	- -	- -	0.501	- -	- -	0.491	- -	- -	0.507	- -	- -	0.434
Anthracene	986	107	91.1064	9.8868	1.24	81.9366	8.8917	1.46	73.4570	7.9715	1.1	87.5568	9.5016	0.861
Benzo(a)anthracene	94	12	8.6856	1.1088	4.14	7.8114	0.9972	4.17	7.0030	0.8940	3.56	8.3472	1.0656	3.18
Benzo(a)pyrene	- -	- -	- -	- -	4.47	- -	- -	4.54	- -	- -	3.74	- -	- -	3.39
Benzo(b)fluoranthene	- -	- -	- -	- -	5.26	- -	- -	5.16	- -	- -	4.05	- -	- -	4.03
Benzo(e)pyrene	- -	- -	- -	- -	3.5	- -	- -	3.44	- -	- -	2.79	- -	- -	2.81
Benzo(g,h,i)perylene	- -	- -	- -	- -	3.37	- -	- -	3.38	- -	- -	2.77	- -	- -	2.71
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	3.83	- -	- -	3.94	- -	- -	3.47	- -	- -	3.35
C1-Chrysenes	- -	- -	- -	- -	2.64	- -	- -	2.41	- -	- -	2.06	- -	- -	2.19
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	5.5	- -	- -	5.17	- -	- -	4.27	- -	- -	4.42
C1-Fluorenes	- -	- -	- -	- -	0.665	- -	- -	0.59	- -	- -	0.342	- -	- -	0.504
C1-Naphthalenes	- -	- -	- -	- -	0.363	- -	- -	0.751	- -	- -	0.18	- -	- -	0.246
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	4.15	- -	- -	3.6	- -	- -	2.25	- -	- -	2.87
C2-Chrysenes	- -	- -	- -	- -	2.14	- -	- -	1.83	- -	- -	1.47	- -	- -	1.56
C2-Fluorenes	- -	- -	- -	- -	1.87	- -	- -	1.47	- -	- -	1.11	- -	- -	1.4
C2-Naphthalenes	- -	- -	- -	- -	1.48	- -	- -	1.24	- -	- -	0.348	- -	- -	0.934
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	5.03	- -	- -	4.3	- -	- -	2.93	- -	- -	3.82
C3-Chrysenes	- -	- -	- -	- -	2.43	- -	- -	1.88	- -	- -	1.38	- -	- -	1.63
C3-Fluorenes	- -	- -	- -	- -	2.7	- -	- -	2.4	- -	- -	1.78	- -	- -	2.13
C3-Naphthalenes	- -	- -	- -	- -	2.72	- -	- -	2.01	- -	- -	0.56	- -	- -	1.82
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	3.47	- -	- -	3.08	- -	- -	2.12	- -	- -	2.63
C4-Chrysenes	- -	- -	- -	- -	1.8	- -	- -	1.42	- -	- -	0.93	- -	- -	1.16
C4-Naphthalenes	- -	- -	- -	- -	2.74	- -	- -	2.19	- -	- -	0.917	- -	- -	2.03
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	2.55	- -	- -	1.9	- -	- -	1.15	- -	- -	1.65
Chrysene	- -	- -	- -	- -	5.54	- -	- -	5.57	- -	- -	4.04	- -	- -	4.33
Dibenz(ah)anthracene/Dibenz(ac)anthracene	- -	- -	- -	- -	0.864	- -	- -	0.861	- -	- -	0.778	- -	- -	0.73
Fluoranthene	- -	1,020	- -	94.2480	10.9	- -	84.7620	10.6	- -	0.9058	8.04	- -	90.5760	8.14
Fluorene	73	8	6.7452	0.7392	0.677	6.0663	0.6648	0.671	0.0614	0.0563	0.279	6.4824	0.7104	0.398
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	3.42	- -	- -	3.46	- -	- -	2.88	- -	- -	2.76
Naphthalene	258	30	23.8392	2.7720	0.405	21.4398	2.4930	0.423	0.2304	0.0337	0.198	22.9104	2.6640	0.294
Perylene	- -	- -	- -	- -	1.15	- -	- -	1.18	- -	- -	1.01	- -	- -	0.914
Phenanthrene	- -	120	- -	11.0880	5.34	- -	9.9720	5.1	- -	0.4438	2.88	- -	10.6560	2.84
Pyrene	8,775	961	810.8100	88.7964	9.57	729.2025	79.8591	8.99	7.3790	0.7953	7.08	779.2200	85.3368	7.14
Total PAH_{34}	- -	- -	- -	- -	107	- -	- -	100	- -	- -	73.2	- -	- -	79.6
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	92,400	- -	- -	83,100	- -	- -	74,500	- -	- -	88,800

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-05			BG-06			BG-07			BG-08		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:			05/16/11			05/16/11			05/17/11			05/17/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.291	- -	- -	0.376	- -	- -	0.204	- -	- -	0.137
Acenaphthylene	- -	- -	- -	- -	0.413	- -	- -	0.397	- -	- -	0.307	- -	- -	0.292
Anthracene	986	107	81.6408	8.8596	0.918	76.4150	8.2925	1.06	73.56[63.60]	7.98[6.90]	0.674	69.6116	7.5542	0.508
Benzo(a)anthracene	94	12	7.7832	0.9936	3.24	7.2850	0.9300	3.57	7.01[6.06]	0.90[0.77]	2.1	6.6364	0.8472	1.62
Benzo(a)pyrene	- -	- -	- -	- -	3.59	- -	- -	3.94	- -	- -	2.48	- -	- -	2.09
Benzo(b)fluoranthene	- -	- -	- -	- -	3.74	- -	- -	4.59	- -	- -	2.47	- -	- -	2.11
Benzo(e)pyrene	- -	- -	- -	- -	2.82	- -	- -	3.07	- -	- -	1.99	- -	- -	1.75
Benzo(g,h,i)perylene	- -	- -	- -	- -	2.73	- -	- -	2.98	- -	- -	1.83	- -	- -	1.67
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	3.7	- -	- -	3.51	- -	- -	2.47	- -	- -	1.91
C1-Chrysenes	- -	- -	- -	- -	2.11	- -	- -	2.16	- -	- -	1.64	- -	- -	1.35
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	4.33	- -	- -	4.49	- -	- -	2.82	- -	- -	2.35
C1-Fluorenes	- -	- -	- -	- -	0.484	- -	- -	0.371	- -	- -	0.266	- -	- -	0.199
C1-Naphthalenes	- -	- -	- -	- -	0.266	- -	- -	0.254	- -	- -	0.136	- -	- -	0.176
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	2.73	- -	- -	2.72	- -	- -	1.37	- -	- -	1.12
C2-Chrysenes	- -	- -	- -	- -	1.51	- -	- -	1.53	- -	- -	1.12	- -	- -	0.93
C2-Fluorenes	- -	- -	- -	- -	1.22	- -	- -	1.1	- -	- -	0.724	- -	- -	0.489
C2-Naphthalenes	- -	- -	- -	- -	0.913	- -	- -	0.677	- -	- -	0.346	- -	- -	0.378
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	3.58	- -	- -	3.35	- -	- -	1.97	- -	- -	1.54
C3-Chrysenes	- -	- -	- -	- -	1.54	- -	- -	1.56	- -	- -	1.27	- -	- -	1.04
C3-Fluorenes	- -	- -	- -	- -	1.96	- -	- -	1.92	- -	- -	0.999	- -	- -	0.718
C3-Naphthalenes	- -	- -	- -	- -	1.66	- -	- -	1.36	- -	- -	0.755	- -	- -	0.636
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	2.63	- -	- -	2.28	- -	- -	1.29	- -	- -	0.968
C4-Chrysenes	- -	- -	- -	- -	1.12	- -	- -	1.19	- -	- -	0.897	- -	- -	0.709
C4-Naphthalenes	- -	- -	- -	- -	1.82	- -	- -	1.64	- -	- -	0.839	- -	- -	0.668
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.8	- -	- -	1.32	- -	- -	0.661	- -	- -	0.507
Chrysene	- -	- -	- -	- -	4.4	- -	- -	4.82	- -	- -	2.88	- -	- -	2.33
Dibenz(ah)anthracene/Dibenz(ac)anthracene	- -	- -	- -	- -	0.748	- -	- -	0.78	- -	- -	0.462	- -	- -	0.426
Fluoranthene	- -	1,020	- -	84.4560	7.85	- -	79.0500	8.85	- -	76.09[65.79]	5.35	- -	72.0120	4.08
Fluorene	73	8	6.0444	0.6624	0.378	5.6575	0.6200	0.462	5.45[4.71]	0.60[0.52]	0.292	5.1538	0.5648	0.2
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	2.76	- -	- -	3.08	- -	- -	1.75	- -	- -	1.57
Naphthalene	258	30	21.3624	2.4840	0.311	19.9950	2.3250	0.298	19.25[16.64]	2.24[1.94]	0.198	18.2148	2.1180	0.24
Perylene	- -	- -	- -	- -	0.956	- -	- -	1.05	- -	- -	0.68	- -	- -	0.591
Phenanthrene	- -	120	- -	9.9360	2.89	- -	9.3000	3.34	- -	8.95[7.74]	1.13	- -	8.4720	1.08
Pyrene	8,775	961	726.5700	79.5708	6.98	680.0625	74.4775	7.77	654.62[565.99]	71.69[61.99]	4.74	619.5150	67.8466	3.78
Total PAH_{34}	- -	- -	- -	- -	78.4	- -	- -	81.9	- -	- -	49.1	- -	- -	40.2
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	82,800	- -	- -	77,500	- -	- -	74,600 [64,500]	- -	- -	70,600

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-09			BG-10			BG-11			BG-12		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/17/11			05/17/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.0634	- -	- -	0.174	- -	- -	0.123	- -	- -	0.0983
Acenaphthylene	- -	- -	- -	- -	0.0996	- -	- -	0.415	- -	- -	0.342	- -	- -	0.503
Anthracene	986	107	55.8076	6.0562	0.157	56.9908	6.1846	0.672	54.8216	5.9492	0.538	40.6232	4.4084	0.605
Benzo(a)anthracene	94	12	5.3204	0.6792	0.61	5.4332	0.6936	1.95	5.2264	0.6672	1.42	3.8728	0.4944	1.56
Benzo(a)pyrene	- -	- -	- -	- -	0.714	- -	- -	2.54	- -	- -	1.93	- -	- -	1.81
Benzo(b)fluoranthene	- -	- -	- -	- -	0.848	- -	- -	2.51	- -	- -	1.85	- -	- -	1.37
Benzo(e)pyrene	- -	- -	- -	- -	0.675	- -	- -	2.05	- -	- -	1.55	- -	- -	1.21
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.645	- -	- -	1.92	- -	- -	1.47	- -	- -	1.14
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	0.766	- -	- -	2.42	- -	- -	1.85	- -	- -	1.51
C1-Chrysenes	- -	- -	- -	- -	0.461	- -	- -	1.73	- -	- -	1.39	- -	- -	1.41
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	0.803	- -	- -	2.87	- -	- -	2.21	- -	- -	2.87
C1-Fluorenes	- -	- -	- -	- -	0.0647	- -	- -	0.214	- -	- -	0.178	- -	- -	0.134
C1-Naphthalenes	- -	- -	- -	- -	0.0558	- -	- -	0.221	- -	- -	0.218	- -	- -	0.132
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.406	- -	- -	1.22	- -	- -	0.853	- -	- -	0.929
C2-Chrysenes	- -	- -	- -	- -	0.326	- -	- -	1.21	- -	- -	0.92	- -	- -	0.655
C2-Fluorenes	- -	- -	- -	- -	0.142	- -	- -	0.543	- -	- -	0.448	- -	- -	0.188
C2-Naphthalenes	- -	- -	- -	- -	0.111	- -	- -	0.42	- -	- -	0.324	- -	- -	0.139
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.479	- -	- -	1.67	- -	- -	1.26	- -	- -	0.829
C3-Chrysenes	- -	- -	- -	- -	0.36	- -	- -	1.26	- -	- -	0.932	- -	- -	0.415
C3-Fluorenes	- -	- -	- -	- -	0.251	- -	- -	0.835	- -	- -	0.677	- -	- -	0.256
C3-Naphthalenes	- -	- -	- -	- -	0.161	- -	- -	0.597	- -	- -	0.446	- -	- -	0.118
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.302	- -	- -	1.11	- -	- -	0.877	- -	- -	0.415
C4-Chrysenes	- -	- -	- -	- -	0.266	- -	- -	0.97	- -	- -	0.729	- -	- -	0.226
C4-Naphthalenes	- -	- -	- -	- -	0.17	- -	- -	0.634	- -	- -	0.52	- -	- -	0.102
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.177	- -	- -	0.575	- -	- -	0.427	- -	- -	0.171
Chrysene	- -	- -	- -	- -	0.928	- -	- -	2.71	- -	- -	1.9	- -	- -	1.77
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.167	- -	- -	0.488	- -	- -	0.336	- -	- -	0.319
Fluoranthene	- -	1,020	- -	57.7320	1.77	- -	58.9560	4.34	- -	56.7120	3.14	- -	42.0240	3.37
Fluorene	73	8	4.1318	0.4528	0.0712	4.2194	0.4624	0.227	4.0588	0.4448	0.156	3.0076	0.3296	0.18
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.626	- -	- -	1.8	- -	- -	1.38	- -	- -	1.12
Naphthalene	258	30	14.6028	1.6980	0.0733	14.9124	1.7340	0.307	14.3448	1.6680	0.268	10.6296	1.2360	0.514
Perylene	- -	- -	- -	- -	0.196	- -	- -	0.699	- -	- -	0.53	- -	- -	0.464
Phenanthrene	- -	120	- -	6.7920	0.629	- -	6.9360	1.25	- -	6.6720	0.915	- -	4.9440	1.26
Pyrene	8,775	961	496.6650	54.3926	1.56	507.1950	55.5458	4.29	487.8900	53.4316	3.14	361.5300	39.5932	3.99
Total PAH_{34}	- -	- -	- -	- -	15.1	- -	- -	46.8	- -	- -	35.2	- -	- -	31.8
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	56,600	- -	- -	57,800	- -	- -	55,600	- -	- -	41,200

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-13			BG-14			BG-15			BG-16		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/16/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/16/11 Analytical Result
Acenaphthene	- -	- -	- -	- -	0.22	- -	- -	0.233	- -	- -	0.151	- -	- -	0.12 [0.13]
Acenaphthylene	- -	- -	- -	- -	0.463	- -	- -	0.153	- -	- -	0.402	- -	- -	0.317 [0.37]
Anthracene	986	107	52.4552	5.6924	0.74	44.6658	4.8471	0.698	58.0754	6.3023	0.567	48.71[47.33]	5.29[5.14]	0.424 [0.501]
Benzo(a)anthracene	94	12	5.0008	0.6384	2.13	4.2582	0.5436	1.75	5.5366	0.7068	1.74	4.64[4.51]	0.59[0.58]	1.24 [1.3]
Benzo(a)pyrene	- -	- -	- -	- -	2.7 J	- -	- -	1.81	- -	- -	2.25	- -	- -	1.57 [1.73]
Benzo(b)fluoranthene	- -	- -	- -	- -	2.81	- -	- -	1.46	- -	- -	2.45	- -	- -	1.43 [1.71]
Benzo(e)pyrene	- -	- -	- -	- -	2.11	- -	- -	1.14	- -	- -	1.78	- -	- -	1.2 [1.29]
Benzo(g,h,i)perylene	- -	- -	- -	- -	2.01 J	- -	- -	1.17	- -	- -	1.75	- -	- -	1.15 [1.24]
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	2.4 J	- -	- -	1.47	- -	- -	1.95	- -	- -	1.44 [1.39]
C1-Chrysenes	- -	- -	- -	- -	1.84	- -	- -	0.862	- -	- -	1.56	- -	- -	1.24 [1.3]
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	3.53	- -	- -	1.84	- -	- -	2.88	- -	- -	2.17 [2.36]
C1-Fluorenes	- -	- -	- -	- -	0.299 J	- -	- -	0.124	- -	- -	0.196	- -	- -	0.146 [0.165]
C1-Naphthalenes	- -	- -	- -	- -	0.323	- -	- -	0.0787	- -	- -	0.236	- -	- -	0.192 [0.237]
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.6	- -	- -	1.08	- -	- -	1.18	- -	- -	0.957 [1.04]
C2-Chrysenes	- -	- -	- -	- -	1.35 J	- -	- -	0.531	- -	- -	1.13	- -	- -	0.84 [0.885]
C2-Fluorenes	- -	- -	- -	- -	0.754	- -	- -	0.174	- -	- -	0.575	- -	- -	0.347 [0.406]
C2-Naphthalenes	- -	- -	- -	- -	0.547	- -	- -	0.156	- -	- -	0.354	- -	- -	0.284 [0.334]
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	2.28	- -	- -	0.785	- -	- -	1.71	- -	- -	1.19 [1.25]
C3-Chrysenes	- -	- -	- -	- -	1.26 J	- -	- -	0.495	- -	- -	0.993	- -	- -	0.702 [0.77]
C3-Fluorenes	- -	- -	- -	- -	1.25	- -	- -	0.342	- -	- -	0.992	- -	- -	0.623 [0.618]
C3-Naphthalenes	- -	- -	- -	- -	0.801	- -	- -	0.18	- -	- -	0.462	- -	- -	0.333 [0.379]
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.68	- -	- -	0.463	- -	- -	1.4	- -	- -	0.892 [0.876]
C4-Chrysenes	- -	- -	- -	- -	0.893	- -	- -	0.311	- -	- -	0.708	- -	- -	0.51 [0.53]
C4-Naphthalenes	- -	- -	- -	- -	0.967	- -	- -	0.168	- -	- -	0.648	- -	- -	0.358 [0.41]
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.897	- -	- -	0.243	- -	- -	0.731	- -	- -	0.478 [0.469]
Chrysene	- -	- -	- -	- -	2.78 J	- -	- -	1.73	- -	- -	2.25	- -	- -	1.58 [1.64]
Dibenz(ah)anthracene/Dibenz(ac)anthracene	- -	- -	- -	- -	0.596 J	- -	- -	0.274	- -	- -	0.423	- -	- -	0.299 [0.33]
Fluoranthene	- -	1,020	- -	54.2640	4.52	- -	46.2060	4.01	- -	60.0780	3.66	- -	50.39[48.96]	2.27 [2.37]
Fluorene	73	8	3.8836	0.4256	0.276 J	3.3069	0.3624	0.23	4.2997	0.4712	0.179	3.61[3.50]	0.40[0.38]	0.131 [0.145]
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	2.02	- -	- -	1.23	- -	- -	1.72	- -	- -	1.12 [1.22]
Naphthalene	258	30	13.7256	1.5960	0.393	11.6874	1.3590	0.0902	15.1962	1.7670	0.293	12.75[12.38]	1.48[1.44]	0.242 [0.299]
Perylene	- -	- -	- -	- -	0.77	- -	- -	0.501	- -	- -	0.637	- -	- -	0.457 [0.506]
Phenanthrene	- -	120	- -	6.3840	1.32	- -	5.4360	2.65	- -	7.0680	1.1	- -	5.93[5.76]	0.919 [0.851]
Pyrene	8,775	961	466.8300	51.1252	4.62	397.5075	43.5333	3.88	516.8475	56.6029	3.75	433.49[421.20]	47.47[46.13]	2.55 [2.7]
Total PAH_{34}	- -	- -	- -	- -	53.1 J	- -	- -	32.3	- -	- -	42.8	- -	- -	29.7 [31.8]
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	53,200	- -	- -	45,300	- -	- -	58,900	- -	- -	49,400 [48,000]

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-17			BG-18			BG-19			BG-20		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/17/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.102	- -	- -	0.11	- -	- -	0.116	- -	- -	0.107
Acenaphthylene	- -	- -	- -	- -	0.282	- -	- -	0.491	- -	- -	0.282	- -	- -	0.323
Anthracene	986	107	50.6804	5.4998	0.396	55.9062	6.0669	0.501	48.0182	5.2109	0.434	43.8770	4.7615	0.415
Benzo(a)anthracene	94	12	4.8316	0.6168	1.13	5.3298	0.6804	1.7	4.5778	0.5844	1.13	4.1830	0.5340	1.07
Benzo(a)pyrene	- -	- -	- -	- -	1.4	- -	- -	2.19	- -	- -	1.44	- -	- -	1.48
Benzo(b)fluoranthene	- -	- -	- -	- -	1.53	- -	- -	2.23	- -	- -	1.29	- -	- -	1.24
Benzo(e)pyrene	- -	- -	- -	- -	1.14	- -	- -	1.72	- -	- -	1.14	- -	- -	1.11
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.08	- -	- -	1.69	- -	- -	1.04	- -	- -	1.04
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.23	- -	- -	1.86	- -	- -	1.4	- -	- -	1.36
C1-Chrysenes	- -	- -	- -	- -	1.12	- -	- -	1.66	- -	- -	1.17	- -	- -	1.13
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	2.05	- -	- -	3.07	- -	- -	1.87	- -	- -	1.8
C1-Fluorenes	- -	- -	- -	- -	0.135	- -	- -	0.16	- -	- -	0.151	- -	- -	0.141
C1-Naphthalenes	- -	- -	- -	- -	0.185	- -	- -	0.198	- -	- -	0.207	- -	- -	0.191
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.806	- -	- -	1.06	- -	- -	0.811	- -	- -	0.817
C2-Chrysenes	- -	- -	- -	- -	0.767	- -	- -	1.22	- -	- -	0.733	- -	- -	0.714
C2-Fluorenes	- -	- -	- -	- -	0.318	- -	- -	0.341	- -	- -	0.243	- -	- -	0.266
C2-Naphthalenes	- -	- -	- -	- -	0.242	- -	- -	0.257	- -	- -	0.27	- -	- -	0.235
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.09	- -	- -	1.36	- -	- -	0.828	- -	- -	0.806
C3-Chrysenes	- -	- -	- -	- -	0.704	- -	- -	1.06	- -	- -	0.639	- -	- -	0.633
C3-Fluorenes	- -	- -	- -	- -	0.55	- -	- -	0.716	- -	- -	0.379	- -	- -	0.37
C3-Naphthalenes	- -	- -	- -	- -	0.292	- -	- -	0.242	- -	- -	0.276	- -	- -	0.228
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.798	- -	- -	1.16	- -	- -	0.484	- -	- -	0.498
C4-Chrysenes	- -	- -	- -	- -	0.437	- -	- -	0.764	- -	- -	0.475	- -	- -	0.456
C4-Naphthalenes	- -	- -	- -	- -	0.355	- -	- -	0.314	- -	- -	0.231	- -	- -	0.212
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.44	- -	- -	0.783	- -	- -	0.271	- -	- -	0.307
Chrysene	- -	- -	- -	- -	1.48	- -	- -	1.99	- -	- -	1.5	- -	- -	1.38
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.279	- -	- -	0.44	- -	- -	0.278	- -	- -	0.278
Fluoranthene	- -	1,020	- -	52.4280	2.15	- -	57.8340	2.76	- -	49.6740	2.11	- -	45.3900	2
Fluorene	73	8	3.7522	0.4112	0.117	4.1391	0.4536	0.114	3.5551	0.3896	0.137	3.2485	0.3560	0.122
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.06	- -	- -	1.65	- -	- -	0.909	- -	- -	0.896
Naphthalene	258	30	13.2612	1.5420	0.232	14.6286	1.7010	0.268	12.5646	1.4610	0.282	11.4810	1.3350	0.268
Perylene	- -	- -	- -	- -	0.433	- -	- -	0.573	- -	- -	0.436	- -	- -	0.429
Phenanthrene	- -	120	- -	6.1680	0.66	- -	6.8040	0.936	- -	5.8440	0.958	- -	5.3400	0.813
Pyrene	8,775	961	451.0350	49.3954	2.4	497.5425	54.4887	3.65	427.3425	46.8007	2.37	390.4875	42.7645	2.28
Total PAH_{34}	- -	- -	- -	- -	27.4	- -	- -	39.2	- -	- -	26.3	- -	- -	25.4
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	51,400	- -	- -	56,700	- -	- -	48,700	- -	- -	44,500

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-21			SD-20			SD-21			SD-22		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/13/11			05/13/11			05/13/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.113	- -	- -	0.0901	- -	- -	1.17	- -	- -	0.131
Acenaphthylene	- -	- -	- -	- -	0.413	- -	- -	0.206	- -	- -	0.346	- -	- -	0.303
Anthracene	986	107	53.8356	5.8422	0.459	53.7370	5.8315	0.358	48.8070	5.2965	2.1	50.8776	5.5212	0.446
Benzo(a)anthracene	94	12	5.1324	0.6552	1.47	5.1230	0.6540	0.82	4.6530	0.5940	1.97	4.8504	0.6192	1.24
Benzo(a)pyrene	- -	- -	- -	- -	1.92	- -	- -	1.14	- -	- -	1.93	- -	- -	1.62
Benzo(b)fluoranthene	- -	- -	- -	- -	1.79	- -	- -	0.804	- -	- -	1.66	- -	- -	1.43
Benzo(e)pyrene	- -	- -	- -	- -	1.51	- -	- -	0.823	- -	- -	1.3	- -	- -	1.14
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.44	- -	- -	0.83	- -	- -	1.16	- -	- -	1.1
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.69	- -	- -	1.13 J	- -	- -	1.56 J	- -	- -	1.32 J
C1-Chrysenes	- -	- -	- -	- -	1.6	- -	- -	0.783	- -	- -	1.23	- -	- -	1.1
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	2.42	- -	- -	1.27	- -	- -	2.31	- -	- -	1.43
C1-Fluorenes	- -	- -	- -	- -	0.144	- -	- -	0.0918	- -	- -	0.368	- -	- -	0.132
C1-Naphthalenes	- -	- -	- -	- -	0.192	- -	- -	0.139	- -	- -	0.32	- -	- -	0.196
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.997	- -	- -	0.585	- -	- -	1.8	- -	- -	0.732
C2-Chrysenes	- -	- -	- -	- -	1	- -	- -	0.479	- -	- -	0.727	- -	- -	0.71
C2-Fluorenes	- -	- -	- -	- -	0.273	- -	- -	0.17	- -	- -	0.283	- -	- -	0.214
C2-Naphthalenes	- -	- -	- -	- -	0.228	- -	- -	0.186	- -	- -	0.533	- -	- -	0.241
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.11	- -	- -	0.491	- -	- -	0.75	- -	- -	0.656
C3-Chrysenes	- -	- -	- -	- -	0.862	- -	- -	0.394	- -	- -	0.515	- -	- -	0.56
C3-Fluorenes	- -	- -	- -	- -	0.46	- -	- -	0.261	- -	- -	0.365	- -	- -	0.304
C3-Naphthalenes	- -	- -	- -	- -	0.236	- -	- -	0.161	- -	- -	0.358	- -	- -	0.202
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.7	- -	- -	0.319	- -	- -	0.418	- -	- -	0.376
C4-Chrysenes	- -	- -	- -	- -	0.574	- -	- -	0.346	- -	- -	0.387	- -	- -	0.435
C4-Naphthalenes	- -	- -	- -	- -	0.252	- -	- -	0.142	- -	- -	0.204	- -	- -	0.176
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.38	- -	- -	0.187	- -	- -	0.234	- -	- -	0.194
Chrysene	- -	- -	- -	- -	1.83	- -	- -	1.19	- -	- -	2.32	- -	- -	1.63
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.348	- -	- -	0.181	- -	- -	0.312	- -	- -	0.308
Fluoranthene	- -	1,020	- -	55.6920	2.54	- -	0.5951	1.45	- -	50.4900	6.17	- -	52.6320	1.81
Fluorene	73	8	3.9858	0.4368	0.12	3.9785	0.4360	0.118	3.6135	0.3960	2.88	3.7668	0.4128	0.139
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.36	- -	- -	0.66	- -	- -	1.08	- -	- -	1.06
Naphthalene	258	30	14.0868	1.6380	0.308	14.0610	1.6350	0.216	12.7710	1.4850	0.358	13.3128	1.5480	0.29
Perylene	- -	- -	- -	- -	0.54	- -	- -	0.34	- -	- -	0.471	- -	- -	0.432
Phenanthrene	- -	120	- -	6.5520	0.961	- -	0.2916	0.723	- -	5.9400	12.7	- -	6.1920	0.996
Pyrene	8,775	961	479.1150	52.4706	3.17	478.2375	52.3745	1.66	434.3625	47.5695	4.72	452.7900	49.5876	1.92
Total PAH_{34}	- -	- -	- -	- -	33.4	- -	- -	18.7 J	- -	- -	55 J	- -	- -	25 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	54,600	- -	- -	54,500	- -	- -	49,500	- -	- -	51,600

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-23			SD-23			SD-24			SD-24		
Sample Depth(Feet):			0 - 0.5			8 - 9			0 - 0.5			8 - 9		
			05/10/11			05/12/11			05/10/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.11	- -	- -	0.00811	- -	- -	0.185	- -	- -	0.00218 U
Acenaphthylene	- -	- -	- -	- -	0.337	- -	- -	0.0298	- -	- -	0.367	- -	- -	0.00218 U
Anthracene	986	107	47.1308	5.1146	0.422	19.7200	2.1400	0.0192	49.3986	5.3607	0.547	0.4358	0.0473	0.00218 U
Benzo(a)anthracene	94	12	4.4932	0.5736	1.03	1.8800	0.2400	0.061	4.7094	0.6012	1.44	0.0415	0.0053	0.00218 U
Benzo(a)pyrene	- -	- -	- -	- -	1.32	- -	- -	0.0521	- -	- -	1.73	- -	- -	0.00218 U
Benzo(b)fluoranthene	- -	- -	- -	- -	1.14	- -	- -	0.0354	- -	- -	1.46	- -	- -	0.00218 U
Benzo(e)pyrene	- -	- -	- -	- -	0.987	- -	- -	0.0375	- -	- -	1.25	- -	- -	0.00218 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.952	- -	- -	0.0283	- -	- -	1.17	- -	- -	0.00218 U
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.19	- -	- -	0.0382	- -	- -	1.58	- -	- -	0.00218 U
C1-Chrysenes	- -	- -	- -	- -	1.07	- -	- -	0.0714	- -	- -	1.3	- -	- -	0.00218 U
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	1.76	- -	- -	0.204	- -	- -	2.23	- -	- -	0.00218 U
C1-Fluorenes	- -	- -	- -	- -	0.13	- -	- -	0.0162	- -	- -	0.172	- -	- -	0.00218 U
C1-Naphthalenes	- -	- -	- -	- -	0.26	- -	- -	0.00793	- -	- -	0.249	- -	- -	0.00218 U
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.856	- -	- -	0.124	- -	- -	1.06	- -	- -	0.00218 U
C2-Chrysenes	- -	- -	- -	- -	0.695	- -	- -	0.0336	- -	- -	0.874	- -	- -	0.00218 U
C2-Fluorenes	- -	- -	- -	- -	0.305	- -	- -	0.035	- -	- -	0.312	- -	- -	0.00218 U
C2-Naphthalenes	- -	- -	- -	- -	0.302	- -	- -	0.0181	- -	- -	0.33	- -	- -	0.00218 U
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.849	- -	- -	0.14	- -	- -	1.07	- -	- -	0.00218 U
C3-Chrysenes	- -	- -	- -	- -	0.596	- -	- -	0.00323 U	- -	- -	0.721	- -	- -	0.00218 U
C3-Fluorenes	- -	- -	- -	- -	0.439	- -	- -	0.047	- -	- -	0.63	- -	- -	0.00218 U
C3-Naphthalenes	- -	- -	- -	- -	0.269	- -	- -	0.0318	- -	- -	0.319	- -	- -	0.00218 U
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.607	- -	- -	0.0632	- -	- -	0.743	- -	- -	0.00218 U
C4-Chrysenes	- -	- -	- -	- -	0.377	- -	- -	0.00323 U	- -	- -	0.454	- -	- -	0.00218 U
C4-Naphthalenes	- -	- -	- -	- -	0.272	- -	- -	0.0331	- -	- -	0.316	- -	- -	0.00218 U
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.323	- -	- -	0.0211	- -	- -	0.405	- -	- -	0.00218 U
Chrysene	- -	- -	- -	- -	1.23	- -	- -	0.0771	- -	- -	1.68	- -	- -	0.00218 U
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.268	- -	- -	0.00923	- -	- -	0.349	- -	- -	0.00218 U
Fluoranthene	- -	1,020	- -	48.7560	1.62	- -	20.4000	0.0929	- -	51.1020	2.47	- -	0.4508	0.00218 U
Fluorene	73	8	3.4894	0.3824	0.112	1.4600	0.1600	0.00335	3.6573	0.4008	0.194	0.0323	0.0035	0.00218 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.949	- -	- -	0.0244	- -	- -	1.2	- -	- -	0.00218 U
Naphthalene	258	30	12.3324	1.4340	0.318	5.1600	0.6000	0.0071	12.9258	1.5030	0.321	0.1140	0.0133	0.00218 U
Perylene	- -	- -	- -	- -	0.419	- -	- -	0.122	- -	- -	0.52	- -	- -	0.00408
Phenanthrene	- -	120	- -	5.7360	0.71	- -	2.4000	0.0226	- -	6.0120	1.26	- -	0.0530	0.00218 U
Pyrene	8,775	961	419.4450	45.9358	1.86	175.5000	19.2200	0.148	439.6275	48.1461	2.62	3.8786	0.4248	0.00218 U
Total PAH_{34}	- -	- -	- -	- -	24.1	- -	- -	1.66	- -	- -	31.5	- -	- -	0.00408
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	47,800	- -	- -	20,000	- -	- -	50,100	- -	- -	442

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-25			SD-25			SD-26			SD-27		
Sample Depth(Feet):			0 - 0.5			7.9 - 8.9			0 - 0.5			0 - 0.5		
Date Collected:			05/10/11			05/12/11			05/12/11			05/10/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.0869	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.134	- -	- -	0.115
Acenaphthylene	- -	- -	- -	- -	0.26	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.316	- -	- -	0.304
Anthracene	986	107	42.7924	4.6438	0.338	1.5283	0.1659	0.00224 U [0.00242 U]	45.9476	4.9862	0.418	44.4686	4.8257	0.447
Benzo(a)anthracene	94	12	4.0796	0.5208	0.907	0.1457	0.0186	0.00224 U [0.00242 U]	4.3804	0.5592	1.19	4.2394	0.5412	1.12
Benzo(a)pyrene	- -	- -	- -	- -	1.18	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.54	- -	- -	1.4
Benzo(b)fluoranthene	- -	- -	- -	- -	1.18	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.54	- -	- -	1.34
Benzo(e)pyrene	- -	- -	- -	- -	0.901	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.23	- -	- -	1.06
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.865	- -	- -	0.00122 J [0.00242 U]	- -	- -	1.07	- -	- -	0.977
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.01	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.37	- -	- -	1.19
C1-Chrysenes	- -	- -	- -	- -	0.951	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.2	- -	- -	1.21
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	1.58	- -	- -	0.00224 U [0.00242 U]	- -	- -	2.3	- -	- -	1.93
C1-Fluorenes	- -	- -	- -	- -	0.111	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.163	- -	- -	0.141
C1-Naphthalenes	- -	- -	- -	- -	0.193	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.236	- -	- -	0.228
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.691	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.923	- -	- -	1.02
C2-Chrysenes	- -	- -	- -	- -	0.656	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.724	- -	- -	0.756
C2-Fluorenes	- -	- -	- -	- -	0.22	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.357	- -	- -	0.267
C2-Naphthalenes	- -	- -	- -	- -	0.234	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.364	- -	- -	0.276
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.743	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.08	- -	- -	0.91
C3-Chrysenes	- -	- -	- -	- -	0.51	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.543	- -	- -	0.648
C3-Fluorenes	- -	- -	- -	- -	0.368	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.636	- -	- -	0.416
C3-Naphthalenes	- -	- -	- -	- -	0.193	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.372	- -	- -	0.257
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.534	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.851	- -	- -	0.63
C4-Chrysenes	- -	- -	- -	- -	0.345	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.438	- -	- -	0.403
C4-Naphthalenes	- -	- -	- -	- -	0.187	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.392	- -	- -	0.244
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.292	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.451	- -	- -	0.328
Chrysene	- -	- -	- -	- -	1.13	- -	- -	0.00224 U [0.00242 U]	- -	- -	1.57	- -	- -	1.39
Dibenz(ah)anthracene/Dibenz(ac)anthracene	- -	- -	- -	- -	0.242	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.317	- -	- -	0.3
Fluoranthene	- -	1,020	- -	44.2680	1.61	- -	1.5810	0.00118 J [0.00242 U]	- -	47.5320	2.52	- -	46.0020	1.75
Fluorene	73	8	3.1682	0.3472	0.0972	0.1132	0.0124	0.00224 U [0.00242 U]	3.4018	0.3728	0.133	3.2923	0.3608	0.128
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.87	- -	- -	0.00224 U [0.00242 U]	- -	- -	0.993	- -	- -	0.988
Naphthalene	258	30	11.1972	1.3020	0.244	0.3999	0.0465	0.00224 U [0.00242 U]	12.0228	1.3980	0.306	11.6358	1.3530	0.299
Perylene	- -	- -	- -	- -	0.394	- -	- -	0.00356 [0.00631]	- -	- -	0.45	- -	- -	0.465
Phenanthrene	- -	120	- -	5.2080	0.589	- -	0.1860	0.00125 J [0.00242 U]	- -	5.5920	0.729	- -	5.4120	0.804
Pyrene	8,775	961	380.8350	41.7074	1.75	13.6013	1.4896	0.00123 J [0.00242 U]	408.9150	44.7826	2.6	395.7525	43.3411	2.04
Total PAH_{34}	- -	- -	- -	- -	21.5	- -	- -	0.00844 J [0.00631]	- -	- -	29.5	- -	- -	25.8
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	43,400	- -	- -	1,550	- -	- -	46,600	- -	- -	45,100

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-27			SD-28			SD-28			SD-29		
Sample Depth(Feet):			7 - 8			0 - 0.5			6 - 7			0 - 0.5		
			05/12/11			05/10/11			05/12/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.0163	- -	- -	0.11	- -	- -	0.106	- -	- -	0.136
Acenaphthylene	- -	- -	- -	- -	0.00576	- -	- -	0.368	- -	- -	0.0309	- -	- -	0.306
Anthracene	986	107	4.2004	0.4558	0.0103	40.8204	4.4298	0.491	17.0578	1.8511	0.0611	49.4972	5.3714	0.49
Benzo(a)anthracene	94	12	0.4004	0.0511	0.0187	3.8916	0.4968	1.16	1.6262	0.2076	0.121	4.7188	0.6024	1.12
Benzo(a)pyrene	- -	- -	- -	- -	0.0189	- -	- -	1.58	- -	- -	0.0976	- -	- -	1.51
Benzo(b)fluoranthene	- -	- -	- -	- -	0.0137	- -	- -	1.4	- -	- -	0.0985	- -	- -	1.44
Benzo(e)pyrene	- -	- -	- -	- -	0.0124	- -	- -	1.11	- -	- -	0.0808	- -	- -	1.17
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.0112	- -	- -	1.07	- -	- -	0.0675	- -	- -	0.992
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	0.0148	- -	- -	1.28	- -	- -	0.0977	- -	- -	1.29
C1-Chrysenes	- -	- -	- -	- -	0.0177	- -	- -	1.31	- -	- -	0.111	- -	- -	1.12
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	0.0447	- -	- -	2.12	- -	- -	0.344	- -	- -	2.42
C1-Fluorenes	- -	- -	- -	- -	0.0085	- -	- -	0.167	- -	- -	0.0496	- -	- -	0.188
C1-Naphthalenes	- -	- -	- -	- -	0.00598	- -	- -	0.268	- -	- -	0.11	- -	- -	0.213
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.0408	- -	- -	1	- -	- -	0.303	- -	- -	1.09
C2-Chrysenes	- -	- -	- -	- -	0.0115	- -	- -	0.87	- -	- -	0.0543	- -	- -	0.691
C2-Fluorenes	- -	- -	- -	- -	0.0126	- -	- -	0.284	- -	- -	0.062	- -	- -	0.359
C2-Naphthalenes	- -	- -	- -	- -	0.0147	- -	- -	0.32	- -	- -	0.135	- -	- -	0.333
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.0291	- -	- -	0.967	- -	- -	0.233	- -	- -	1.2
C3-Chrysenes	- -	- -	- -	- -	0.00235 U	- -	- -	0.635	- -	- -	0.0374	- -	- -	0.531
C3-Fluorenes	- -	- -	- -	- -	0.0263	- -	- -	0.422	- -	- -	0.103	- -	- -	0.758
C3-Naphthalenes	- -	- -	- -	- -	0.0156	- -	- -	0.265	- -	- -	0.0947	- -	- -	0.335
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.0214	- -	- -	0.641	- -	- -	0.129	- -	- -	0.919
C4-Chrysenes	- -	- -	- -	- -	0.00235 U	- -	- -	0.413	- -	- -	0.0414	- -	- -	0.432
C4-Naphthalenes	- -	- -	- -	- -	0.0159	- -	- -	0.237	- -	- -	0.0687	- -	- -	0.345
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.0102	- -	- -	0.334	- -	- -	0.0945	- -	- -	0.593
Chrysene	- -	- -	- -	- -	0.0224	- -	- -	1.4	- -	- -	0.152	- -	- -	1.5
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.00341	- -	- -	0.313	- -	- -	0.0209	- -	- -	0.296
Fluoranthene	- -	1,020	- -	4.3452	0.0424	- -	42.2280	1.76	- -	17.6460	0.293	- -	51.2040	2.64
Fluorene	73	8	0.3110	0.0341	0.00762	3.0222	0.3312	0.121	1.2629	0.1384	0.0411	3.6646	0.4016	0.147
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.0102	- -	- -	1.08	- -	- -	0.0649	- -	- -	0.93
Naphthalene	258	30	1.0991	0.1278	0.00444	10.6812	1.2420	0.333	4.4634	0.5190	0.125	12.9516	1.5060	0.26
Perylene	- -	- -	- -	- -	0.0298	- -	- -	0.496	- -	- -	0.0714	- -	- -	0.44
Phenanthrene	- -	120	- -	0.5112	0.0436	- -	4.9680	0.735	- -	2.0760	0.238	- -	6.0240	1.09
Pyrene	8,775	961	37.3815	4.0939	0.047	363.2850	39.7854	2.14	151.8075	16.6253	0.353	440.5050	48.2422	2.66
Total PAH_{34}	- -	- -	- -	- -	0.608	- -	- -	27.2	- -	- -	4.09	- -	- -	29.9
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	4,260	- -	- -	41,400	- -	- -	17,300	- -	- -	50,200

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-30			SD-30			SD-31			SD-31		
Sample Depth(Feet):			0 - 0.5			8.5 - 9.5			0 - 0.5			11.5 - 12.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	05/10/11			05/12/11			05/10/11			05/12/11		
			TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.113	- -	- -	0.00324 U	- -	- -	0.0919	- -	- -	0.00223 U
Acenaphthylene	- -	- -	- -	- -	0.307	- -	- -	0.00324 U	- -	- -	0.336	- -	- -	0.00223 U
Anthracene	986	107	42.3980	4.6010	0.418	13.9026	1.5087	0.00324 U	45.2574	4.9113	0.437	3.4313	0.3724	0.00223 U
Benzo(a)anthracene	94	12	4.0420	0.5160	1.15	1.3254	0.1692	0.00324 U	4.3146	0.5508	1.01	0.3271	0.0418	0.00132 J
Benzo(a)pyrene	- -	- -	- -	- -	1.46	- -	- -	0.00324 U	- -	- -	1.43	- -	- -	0.00179 J
Benzo(b)fluoranthene	- -	- -	- -	- -	1.32	- -	- -	0.00173 J	- -	- -	1.16	- -	- -	0.00158 J
Benzo(e)pyrene	- -	- -	- -	- -	1.06	- -	- -	0.00324 U	- -	- -	0.997	- -	- -	0.0014 J
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.998	- -	- -	0.00324 U	- -	- -	0.94	- -	- -	0.00116 J
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.24	- -	- -	0.00166 J	- -	- -	1.18	- -	- -	0.00158 J
C1-Chrysenes	- -	- -	- -	- -	1.2	- -	- -	0.00324 U	- -	- -	1.18	- -	- -	0.00188 J
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	1.99	- -	- -	0.0035	- -	- -	1.86	- -	- -	0.00462
C1-Fluorenes	- -	- -	- -	- -	0.157	- -	- -	0.00324 U	- -	- -	0.138	- -	- -	0.00223 U
C1-Naphthalenes	- -	- -	- -	- -	0.204	- -	- -	0.00324 U	- -	- -	0.255	- -	- -	0.00223 U
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.878	- -	- -	0.00367	- -	- -	0.767	- -	- -	0.00302
C2-Chrysenes	- -	- -	- -	- -	0.783	- -	- -	0.00324 U	- -	- -	0.772	- -	- -	0.00223 U
C2-Fluorenes	- -	- -	- -	- -	0.286	- -	- -	0.00324 U	- -	- -	0.229	- -	- -	0.00223 U
C2-Naphthalenes	- -	- -	- -	- -	0.272	- -	- -	0.00324 U	- -	- -	0.293	- -	- -	0.00223 U
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.98	- -	- -	0.0045	- -	- -	0.796	- -	- -	0.00405
C3-Chrysenes	- -	- -	- -	- -	0.63	- -	- -	0.00324 U	- -	- -	0.521	- -	- -	0.00223 U
C3-Fluorenes	- -	- -	- -	- -	0.476	- -	- -	0.00324 U	- -	- -	0.34	- -	- -	0.00223 U
C3-Naphthalenes	- -	- -	- -	- -	0.273	- -	- -	0.00324 U	- -	- -	0.213	- -	- -	0.00223 U
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.654	- -	- -	0.00324 U	- -	- -	0.547	- -	- -	0.00223 U
C4-Chrysenes	- -	- -	- -	- -	0.372	- -	- -	0.00324 U	- -	- -	0.319	- -	- -	0.00223 U
C4-Naphthalenes	- -	- -	- -	- -	0.276	- -	- -	0.00324 U	- -	- -	0.183	- -	- -	0.00223 U
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.364	- -	- -	0.00324 U	- -	- -	0.323	- -	- -	0.00223 U
Chrysene	- -	- -	- -	- -	1.41	- -	- -	0.00195 J	- -	- -	1.17	- -	- -	0.00198 J
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.275	- -	- -	0.00324 U	- -	- -	0.27	- -	- -	0.00223 U
Fluoranthene	- -	1,020	- -	43.8600	1.86	- -	14.3820	0.00366	- -	46.8180	1.41	- -	3.5496	0.00328
Fluorene	73	8	3.1390	0.3440	0.13	1.0293	0.1128	0.00324 U	3.3507	0.3672	0.106	0.2540	0.0278	0.00223 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.01	- -	- -	0.00324 U	- -	- -	0.958	- -	- -	0.00223 U
Naphthalene	258	30	11.0940	1.2900	0.253	3.6378	0.4230	0.00163 J	11.8422	1.3770	0.314	0.8978	0.1044	0.00223 U
Perylene	- -	- -	- -	- -	0.443	- -	- -	0.0295	- -	- -	0.446	- -	- -	0.0576
Phenanthrene	- -	120	- -	5.1600	0.84	- -	1.6920	0.00239 J	- -	5.5080	0.603	- -	0.4176	0.00163 J
Pyrene	8,775	961	377.3250	41.3230	2.13	123.7275	13.5501	0.00214 J	402.7725	44.1099	1.81	30.5370	3.3443	0.00338
Total PAH_{34}	- -	- -	- -	- -	26.2	- -	- -	0.0563 J	- -	- -	23.4	- -	- -	0.0903 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	43,000	- -	- -	14,100	- -	- -	45,900	- -	- -	3,480

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-32			SD-33			SD-33			SD-34		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			10.5 - 11.5			0 - 0.5		
			05/10/11			05/10/11			05/12/11			05/09/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.205	- -	- -	0.1	- -	- -	0.00272 U	- -	- -	0.0968 [0.101]
Acenaphthylene	- -	- -	- -	- -	0.493	- -	- -	0.314	- -	- -	0.00272 U	- -	- -	0.291 [0.292]
Anthracene	986	107	47.4266	5.1467	0.698	44.0742	4.7829	0.439	0.7592	0.0824	0.00272 U	41.61[43.09]	4.52[4.68]	0.426 [0.423]
Benzo(a)anthracene	94	12	4.5214	0.5772	1.8	4.2018	0.5364	1.04	0.0724	0.0092	0.00272 U	3.97[4.11]	0.51[0.52]	1.06 [1.03]
Benzo(a)pyrene	- -	- -	- -	- -	2.28	- -	- -	1.43	- -	- -	0.00272 U	- -	- -	1.43 [1.36]
Benzo(b)fluoranthene	- -	- -	- -	- -	1.96	- -	- -	1.2	- -	- -	0.00272 U	- -	- -	1.19 J [1.23]
Benzo(e)pyrene	- -	- -	- -	- -	1.63	- -	- -	0.998	- -	- -	0.00272 U	- -	- -	1.01 [0.963]
Benzo(g,h,i)perylene	- -	- -	- -	- -	1.54	- -	- -	0.938	- -	- -	0.00272 U	- -	- -	0.969 [0.919]
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	1.98	- -	- -	1.2	- -	- -	0.00272 U	- -	- -	1.27 [1.08]
C1-Chrysenes	- -	- -	- -	- -	1.73	- -	- -	1.13	- -	- -	0.00272 U	- -	- -	1.09 [1.1]
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	2.84	- -	- -	1.93	- -	- -	0.00272 U	- -	- -	1.86 [1.76]
C1-Fluorenes	- -	- -	- -	- -	0.263	- -	- -	0.138	- -	- -	0.00272 U	- -	- -	0.132 [0.13]
C1-Naphthalenes	- -	- -	- -	- -	0.296	- -	- -	0.236	- -	- -	0.00272 U	- -	- -	0.221 [0.212]
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	2.02	- -	- -	0.836	- -	- -	0.00272 U	- -	- -	0.969 [0.936]
C2-Chrysenes	- -	- -	- -	- -	1.16	- -	- -	0.736	- -	- -	0.00272 U	- -	- -	0.782 [0.72]
C2-Fluorenes	- -	- -	- -	- -	0.566	- -	- -	0.262	- -	- -	0.00272 U	- -	- -	0.271 [0.28]
C2-Naphthalenes	- -	- -	- -	- -	0.481	- -	- -	0.279	- -	- -	0.00272 U	- -	- -	0.283 [0.266]
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.52	- -	- -	0.89	- -	- -	0.00272 U	- -	- -	0.897 [0.826]
C3-Chrysenes	- -	- -	- -	- -	0.985	- -	- -	0.574	- -	- -	0.00272 U	- -	- -	0.576 [0.529]
C3-Fluorenes	- -	- -	- -	- -	0.77	- -	- -	0.411	- -	- -	0.00272 U	- -	- -	0.397 [0.386]
C3-Naphthalenes	- -	- -	- -	- -	0.521	- -	- -	0.235	- -	- -	0.00272 U	- -	- -	0.26 [0.239]
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	1.04	- -	- -	0.592	- -	- -	0.00272 U	- -	- -	0.599 [0.574]
C4-Chrysenes	- -	- -	- -	- -	0.626	- -	- -	0.358	- -	- -	0.00272 U	- -	- -	0.355 [0.339]
C4-Naphthalenes	- -	- -	- -	- -	0.49	- -	- -	0.227	- -	- -	0.00272 U	- -	- -	0.237 [0.227]
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.535	- -	- -	0.327	- -	- -	0.00272 U	- -	- -	0.336 [0.308]
Chrysene	- -	- -	- -	- -	2.29	- -	- -	1.22	- -	- -	0.00272 U	- -	- -	1.29 [1.26]
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.459	- -	- -	0.274	- -	- -	0.00272 U	- -	- -	0.269 [0.278]
Fluoranthene	- -	1,020	- -	49.0620	3.42	- -	45.5940	1.68	- -	0.7854	0.00272 U	- -	43.04[44.57]	1.74 [1.61]
Fluorene	73	8	3.5113	0.3848	0.217	3.2631	0.3576	0.108	0.0562	0.0062	0.00272 U	3.08[3.19]	0.34[0.35]	0.11 [0.115]
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	1.55	- -	- -	0.95	- -	- -	0.00272 U	- -	- -	0.973 [0.937]
Naphthalene	258	30	12.4098	1.4430	0.389	11.5326	1.3410	0.293	0.1987	0.0231	0.00272 U	10.89[11.28]	1.27[1.31]	0.282 [0.266]
Perylene	- -	- -	- -	- -	0.674	- -	- -	0.451	- -	- -	0.00272 U	- -	- -	0.46 [0.432]
Phenanthrene	- -	120	- -	5.7720	1.51	- -	5.3640	0.661	- -	0.0924	0.00272 U	- -	5.06[5.24]	0.702 [0.685]
Pyrene	8,775	961	422.0775	46.2241	3.34	392.2425	42.9567	1.99	6.7568	0.7400	0.00272 U	370.31[383.48]	40.55[42.00]	1.97 J [1.82]
Total PAH_{34}	- -	- -	- -	- -	42.3	- -	- -	24.4	- -	- -	0.00272 U	- -	- -	24.8 J [23.6]
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	48,100	- -	- -	44,700	- -	- -	770	- -	- -	42,200 [43,700]

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-34			SD-35			SD-35			SD-36		
Sample Depth(Feet):			9 - 10			0 - 0.5			4 - 5			0 - 0.5		
			05/09/11			05/10/11			05/12/11			05/10/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.00246 U	- -	- -	0.195	- -	- -	0.00186 J	- -	- -	0.11
Acenaphthylene	- -	- -	- -	- -	0.00246 U	- -	- -	0.316	- -	- -	0.00324 U	- -	- -	0.299
Anthracene	986	107	0.6370	0.0691	0.00246 U	43.0882	4.6759	0.512	17.8466	1.9367	0.00359	43.5812	4.7294	0.405
Benzo(a)anthracene	94	12	0.0607	0.0078	0.00246 U	4.1078	0.5244	1.3	1.7014	0.2172	0.00862	4.1548	0.5304	1.07
Benzo(a)pyrene	- -	- -	- -	- -	0.00246 U	- -	- -	1.36	- -	- -	0.00897	- -	- -	1.36
Benzo(b)fluoranthene	- -	- -	- -	- -	0.00246 U	- -	- -	1.15	- -	- -	0.00996	- -	- -	1.27
Benzo(e)pyrene	- -	- -	- -	- -	0.00246 U	- -	- -	0.941	- -	- -	0.00727	- -	- -	0.98
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.00246 U	- -	- -	0.969	- -	- -	0.00738	- -	- -	0.903
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	0.00246 U	- -	- -	1.21	- -	- -	0.00949	- -	- -	1.07
C1-Chrysenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.903	- -	- -	0.00909	- -	- -	1.05
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	0.00182 J	- -	- -	1.71	- -	- -	0.0158	- -	- -	1.78
C1-Fluorenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.184	- -	- -	0.00359	- -	- -	0.139
C1-Naphthalenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.159	- -	- -	0.00197 J	- -	- -	0.199
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00125 J	- -	- -	1.11	- -	- -	0.00959	- -	- -	0.88
C2-Chrysenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.539	- -	- -	0.00324 U	- -	- -	0.685
C2-Fluorenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.275	- -	- -	0.00324 U	- -	- -	0.276
C2-Naphthalenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.347	- -	- -	0.00652	- -	- -	0.257
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00186 J	- -	- -	0.874	- -	- -	0.00821	- -	- -	0.867
C3-Chrysenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.443	- -	- -	0.00324 U	- -	- -	0.594
C3-Fluorenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.343	- -	- -	0.00324 U	- -	- -	0.421
C3-Naphthalenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.302	- -	- -	0.00324 U	- -	- -	0.252
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.459	- -	- -	0.00711	- -	- -	0.573
C4-Chrysenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.308	- -	- -	0.00324 U	- -	- -	0.375
C4-Naphthalenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.217	- -	- -	0.00324 U	- -	- -	0.253
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00246 U	- -	- -	0.224	- -	- -	0.0096	- -	- -	0.311
Chrysene	- -	- -	- -	- -	0.00246 U	- -	- -	1.4	- -	- -	0.0113	- -	- -	1.29
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.00246 U	- -	- -	0.288	- -	- -	0.00231 J	- -	- -	0.268
Fluoranthene	- -	1,020	- -	0.6589	0.00246 U	- -	44.5740	2.31	- -	18.4620	0.0208	- -	45.0840	1.69
Fluorene	73	8	0.0472	0.0052	0.00246 U	3.1901	0.3496	0.133	1.3213	0.1448	0.00381	3.2266	0.3536	0.118
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.00246 U	- -	- -	0.979	- -	- -	0.00689	- -	- -	0.937
Naphthalene	258	30	0.1667	0.0194	0.00246 U	11.2746	1.3110	0.184	4.6698	0.5430	0.00287 J	11.4036	1.3260	0.258
Perylene	- -	- -	- -	- -	0.00246 U	- -	- -	0.377	- -	- -	0.136	- -	- -	0.434
Phenanthrene	- -	120	- -	0.0775	0.00246 U	- -	5.2440	1.11	- -	2.1720	0.0114	- -	5.3040	0.78
Pyrene	8,775	961	5.6687	0.6208	0.00246 U	383.4675	41.9957	2.27	158.8275	17.3941	0.0198	387.8550	42.4762	1.9
Total PAH_{34}	- -	- -	- -	- -	0.00493 J	- -	- -	25.4	- -	- -	0.344 J	- -	- -	24.1
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	646	- -	- -	43,700	- -	- -	18,100	- -	- -	44,200

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-36			SD-37			SD-37			SD-38		
Sample Depth(Feet):			13.8 - 14.8			0 - 0.5			6 - 7			0 - 0.5		
			05/12/11			05/09/11			05/09/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.00644	- -	- -	0.113	- -	- -	0.00232 U	- -	- -	0.112
Acenaphthylene	- -	- -	- -	- -	0.00521 U	- -	- -	0.308	- -	- -	0.00232 U	- -	- -	0.355
Anthracene	986	107	0.3313	0.0360	0.00521 U	45.9476	4.9862	0.48	0.2071	0.0225	0.00232 U	40.2288	4.3656	0.502
Benzo(a)anthracene	94	12	0.0316	0.0040	0.00521 U	4.3804	0.5592	1.17	0.0197	0.0025	0.00232 U	3.8352	0.4896	1.16
Benzo(a)pyrene	- -	- -	- -	- -	0.00521 U	- -	- -	1.64	- -	- -	0.00232 U	- -	- -	1.62
Benzo(b)fluoranthene	- -	- -	- -	- -	0.00521 U	- -	- -	1.35	- -	- -	0.00232 U	- -	- -	1.46
Benzo(e)pyrene	- -	- -	- -	- -	0.00521 U	- -	- -	1.21	- -	- -	0.00232 U	- -	- -	1.26
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.00521 U	- -	- -	1.12	- -	- -	0.00232 U	- -	- -	1.18
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	0.00521 U	- -	- -	1.48	- -	- -	0.00232 U	- -	- -	1.45
C1-Chrysenes	- -	- -	- -	- -	0.00521 U	- -	- -	1.27	- -	- -	0.00232 U	- -	- -	1.33
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	0.00521 U	- -	- -	2.08	- -	- -	0.00232 U	- -	- -	2.08
C1-Fluorenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.141	- -	- -	0.00232 U	- -	- -	0.143
C1-Naphthalenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.267	- -	- -	0.00232 U	- -	- -	0.23
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00521 U	- -	- -	1.1	- -	- -	0.00232 U	- -	- -	0.812
C2-Chrysenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.861	- -	- -	0.00232 U	- -	- -	0.821
C2-Fluorenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.324	- -	- -	0.00232 U	- -	- -	0.247
C2-Naphthalenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.319	- -	- -	0.00232 U	- -	- -	0.264
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00521 U	- -	- -	1	- -	- -	0.00232 U	- -	- -	0.839
C3-Chrysenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.645	- -	- -	0.00232 U	- -	- -	0.87
C3-Fluorenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.45	- -	- -	0.00232 U	- -	- -	0.357
C3-Naphthalenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.284	- -	- -	0.00232 U	- -	- -	0.217
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.673	- -	- -	0.00232 U	- -	- -	0.529
C4-Chrysenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.394	- -	- -	0.00232 U	- -	- -	0.554
C4-Naphthalenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.256	- -	- -	0.00232 U	- -	- -	0.197
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00521 U	- -	- -	0.366	- -	- -	0.00232 U	- -	- -	0.33
Chrysene	- -	- -	- -	- -	0.00521 U	- -	- -	1.47	- -	- -	0.00232 U	- -	- -	1.48
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.00521 U	- -	- -	0.325	- -	- -	0.00232 U	- -	- -	0.294
Fluoranthene	- -	1,020	- -	0.3427	0.00521 U	- -	47.5320	1.94	- -	0.2142	0.00232 U	- -	41.6160	2.15
Fluorene	73	8	0.0245	0.0027	0.00521 U	3.4018	0.3728	0.13	0.0153	0.0017	0.00232 U	2.9784	0.3264	0.13
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.00521 U	- -	- -	1.11	- -	- -	0.00232 U	- -	- -	1.06
Naphthalene	258	30	0.0867	0.0101	0.00521 U	12.0228	1.3980	0.35	0.0542	0.0063	0.00232 U	10.5264	1.2240	0.309
Perylene	- -	- -	- -	- -	0.00521 U	- -	- -	0.544	- -	- -	0.00232 U	- -	- -	0.508
Phenanthrene	- -	120	- -	0.0403	0.00521 U	- -	5.5920	0.824	- -	0.0252	0.00232 U	- -	4.8960	0.75
Pyrene	8,775	961	2.9484	0.3229	0.00274 J	408.9150	44.7826	2.24	1.8428	0.2018	0.00232 U	358.0200	39.2088	2.47
Total PAH_{34}	- -	- -	- -	- -	0.00918 J	- -	- -	28.2	- -	- -	0.00232 U	- -	- -	28.1
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	336	- -	- -	46,600	- -	- -	210	- -	- -	40,800

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5
Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			SD-38			SD-39			SD-39		
Sample Depth(Feet):			7 - 8			0 - 0.5			9.5 - 10.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Acenaphthene	- -	- -	- -	- -	0.00385 U	- -	- -	0.0774	- -	- -	0.00418 U
Acenaphthylene	- -	- -	- -	- -	0.00385 U	- -	- -	0.234	- -	- -	0.00418 U
Anthracene	986	107	0.7188	0.0780	0.00385 U	45.7504	4.9648	0.309	0.3244	0.0352	0.00418 U
Benzo(a)anthracene	94	12	0.0685	0.0087	0.00385 U	4.3616	0.5568	0.863	0.0309	0.0039	0.00418 U
Benzo(a)pyrene	- -	- -	- -	- -	0.00385 U	- -	- -	1.11	- -	- -	0.00418 U
Benzo(b)fluoranthene	- -	- -	- -	- -	0.00385 U	- -	- -	1.15	- -	- -	0.00418 U
Benzo(e)pyrene	- -	- -	- -	- -	0.00385 U	- -	- -	0.969	- -	- -	0.00418 U
Benzo(g,h,i)perylene	- -	- -	- -	- -	0.00385 U	- -	- -	0.902	- -	- -	0.00418 U
Benzo(j)fluoranthene/Benzo(k)fluoranthene	- -	- -	- -	- -	0.00385 U	- -	- -	1.14	- -	- -	0.00418 U
C1-Chrysenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.928	- -	- -	0.00418 U
C1-Fluoranthenes/Pyrenes	- -	- -	- -	- -	0.00385 U	- -	- -	1.53	- -	- -	0.00418 U
C1-Fluorenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.103	- -	- -	0.00418 U
C1-Naphthalenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.152	- -	- -	0.00418 U
C1-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.584	- -	- -	0.00418 U
C2-Chrysenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.606	- -	- -	0.00418 U
C2-Fluorenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.196	- -	- -	0.00418 U
C2-Naphthalenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.178	- -	- -	0.00418 U
C2-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.671	- -	- -	0.00418 U
C3-Chrysenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.569	- -	- -	0.00418 U
C3-Fluorenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.32	- -	- -	0.00418 U
C3-Naphthalenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.164	- -	- -	0.00418 U
C3-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.438	- -	- -	0.00418 U
C4-Chrysenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.385	- -	- -	0.00418 U
C4-Naphthalenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.162	- -	- -	0.00418 U
C4-Phenanthrenes/Anthracenes	- -	- -	- -	- -	0.00385 U	- -	- -	0.295	- -	- -	0.00418 U
Chrysene	- -	- -	- -	- -	0.00385 U	- -	- -	1.15	- -	- -	0.00418 U
Dibenz(ah)anthracene/Dibenz(ac)anthracen	- -	- -	- -	- -	0.00385 U	- -	- -	0.233	- -	- -	0.00418 U
Fluoranthene	- -	1,020	- -	0.7436	0.00385 U	- -	47.3280	1.82	- -	0.3356	0.00418 U
Fluorene	73	8	0.0532	0.0058	0.00385 U	3.3872	0.3712	0.0924	0.0240	0.0026	0.00418 U
Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	0.00385 U	- -	- -	0.831	- -	- -	0.00418 U
Naphthalene	258	30	0.1881	0.0219	0.00385 U	11.9712	1.3920	0.208	0.0849	0.0099	0.00418 U
Perylene	- -	- -	- -	- -	0.00385 U	- -	- -	0.342	- -	- -	0.00418 U
Phenanthrene	- -	120	- -	0.0875	0.00385 U	- -	5.5680	0.551	- -	0.0395	0.00418 U
Pyrene	8,775	961	6.3970	0.7006	0.00385 U	407.1600	44.5904	1.99	2.8870	0.3162	0.00418 U
Total PAH_{34}	- -	- -	- -	- -	0.00385 U	- -	- -	21.3	- -	- -	0.00418 U
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	729	- -	- -	46,400	- -	- -	329

Notes:

1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-5

Summary of Sediment Sample Analytical Results - PAH_{34} (mg/kg)

Remedial Investigation

Consolidated Edison Company of New York, Inc.

Former Unionport Works Site - Westchester Creek Sediment Investigation

Bronx, New York

Notes:

1. Sediment screening levels are from the New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments". Benthic screening levels, which are presented in micrograms per gram organic carbon (ug/gOC), are adjusted for each sample based on sample-specific Total Organic Carbon (TOC) concentrations. For example, for anthracene (benthic aquatic life chronic value of 107 ug/g OC and acute value of 986 ug/g OC) and sample BG-01-10 (TOC of 9.2% or 92 g OC/kg), the criteria are adjusted as follows:

   Benthic Aquatic Life Chronic Toxicity: (107 ug/g OC) * (92 g OC/kg) = 9844 ug/kg or 9.84 mg/kg

   Benthic Aquatic Life Acute Toxicity: (986 ug/g OC) * (92 g OC/kg) = 90712 ug/kg or 90.7 mg/kg
2. All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
3. PAH_{34} = USEPA identified 34 bioavailable PAHs
4. Duplicate sample results are shown in brackets.

Data Qualifiers

J indicates an estimated value.

U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-01			BG-02			BG-03			BG-04		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/17/11			05/17/11			05/16/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,1-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,1-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,2-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
1,2-Dichloropropane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
2-Butanone	- -	- -	- -	- -	0.063	- -	- -	0.037 U	- -	- -	0.024 U	- -	- -	0.040 U
2-Hexanone	- -	- -	- -	- -	0.035 U	- -	- -	0.037 U	- -	- -	0.024 U	- -	- -	0.040 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Acetone	- -	- -	- -	- -	0.25	- -	- -	0.095	- -	- -	0.038 J	- -	- -	0.12
Benzene	103	28	9.5172	2.5872	0.017 U	8.5593	2.3268	0.019 U	7.6735	2.0860	0.012 U	9.1464	2.4864	0.020 U
Bromodichloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Bromoform	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Bromomethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Carbon Disulfide	- -	- -	- -	- -	0.034 J	- -	- -	0.025 J	- -	- -	0.013 J	- -	- -	0.016 J
Carbon Tetrachloride	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Chlorobenzene	34.6	3.5	3.1970	0.3234	0.0058 J	2.8753	0.2909	0.019 U	2.5777	0.2608	0.012 U	3.0725	0.3108	0.020 U
Chloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Chloroform	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Chloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Dibromochloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Ethylbenzene	212	24	19.5888	2.2176	0.017 U	17.6172	1.9944	0.019 U	15.7940	1.7880	0.012 U	18.8256	2.1312	0.020 U
Methylene Chloride	- -	- -	- -	- -	0.069 U	- -	- -	0.074 U	- -	- -	0.047 U	- -	- -	0.081 U
Styrene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Tetrachloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Toluene	235	49	21.7140	4.5276	0.017 U	19.5285	4.0719	0.00053 J	17.5075	3.6505	0.00052 J	20.8680	4.3512	0.020 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Trichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Vinyl Chloride	- -	- -	- -	- -	0.017 U	- -	- -	0.019 U	- -	- -	0.012 U	- -	- -	0.020 U
Xylenes (total)	833	92	76.9692	8.5008	0.0022 J	69.2223	7.6452	0.019 U	62.0585	6.8540	0.012 U	73.9704	8.1696	0.020 U
Total BTEX	- -	- -	- -	- -	0.0022 J	- -	- -	0.00053 J	- -	- -	0.00052 J	- -	- -	0.020 U
Total VOCs	- -	- -	- -	- -	0.71 J	- -	- -	0.24 J	- -	- -	0.10 J	- -	- -	0.27 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	92,400	- -	- -	83,100	- -	- -	74,500	- -	- -	88,800

Note:
[1] Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			BG-05			BG-06			BG-07			BG-08		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/17/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
1,1-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
1,1-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
1,2-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
1,2-Dichloropropane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
2-Butanone	- -	- -	- -	- -	0.035 U	- -	- -	0.036 U	- -	- -	0.043 J [0.049]	- -	- -	0.040 J
2-Hexanone	- -	- -	- -	- -	0.035 U	- -	- -	0.036 U	- -	- -	0.038 UJ [0.040 U]	- -	- -	0.042 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
Acetone	- -	- -	- -	- -	0.13	- -	- -	0.11	- -	- -	0.22 J [0.25]	- -	- -	0.21
Benzene	103	28	8.5284	2.3184	0.017 U	7.9825	2.1700	0.018 U	7.69[6.64]	2.09[1.81]	0.019 U [0.020 U]	7.2718	1.9768	0.021 U
Bromodichloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Bromoform	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Bromomethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Carbon Disulfide	- -	- -	- -	- -	0.022 J	- -	- -	0.010 J	- -	- -	0.018 J [0.021 J]	- -	- -	0.033 J
Carbon Tetrachloride	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Chlorobenzene	34.6	3.5	2.8649	0.2898	0.0021 J	2.6815	0.2713	0.018 U	2.58[2.23]	0.26[0.23]	0.019 UJ [0.020 U]	2.4428	0.2471	0.021 U
Chloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
Chloroform	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
Chloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	R [0.020 U]	- -	- -	0.021 U
Dibromochloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Ethylbenzene	212	24	17.5536	1.9872	0.017 U	16.4300	1.8600	0.018 U	15.82[13.67]	1.79[1.55]	0.019 UJ [0.020 U]	14.9672	1.6944	0.021 U
Methylene Chloride	- -	- -	- -	- -	0.069 U	- -	- -	0.071 U	- -	- -	0.077 U [0.080 U]	- -	- -	0.084 U
Styrene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Tetrachloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Toluene	235	49	19.4580	4.0572	0.017 U	18.2125	3.7975	0.018 U	17.53[15.16]	3.66[3.16]	0.019 UJ [0.020 U]	16.5910	3.4594	0.021 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Trichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 UJ [0.020 U]	- -	- -	0.021 U
Vinyl Chloride	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
Xylenes (total)	833	92	68.9724	7.6176	0.017 U	64.5575	7.1300	0.018 U	62.14[53.73]	6.86[5.93]	0.019 UJ [0.020 U]	58.8098	6.4952	0.021 U
Total BTEX	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.019 U [0.020 U]	- -	- -	0.021 U
Total VOCs	- -	- -	- -	- -	0.31 J	- -	- -	0.24 J	- -	- -	0.56 J [0.64 J]	- -	- -	0.57 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	82,800	- -	- -	77,500	- -	- -	74,600 [64,500]	- -	- -	70,600

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			BG-09			BG-10			BG-11			BG-12		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/17/11			05/17/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,1-Dichloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,1-Dichloroethene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,2-Dichloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
1,2-Dichloropropane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
2-Butanone	- -	- -	- -	- -	0.047 U	- -	- -	0.036 J	- -	- -	0.035 U	- -	- -	0.024 U
2-Hexanone	- -	- -	- -	- -	0.047 U	- -	- -	0.037 U	- -	- -	0.035 U	- -	- -	0.024 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Acetone	- -	- -	- -	- -	0.069 J	- -	- -	0.18	- -	- -	0.11 J	- -	- -	0.021 J
Benzene	103	28	5.8298	1.5848	0.023 U	5.9534	1.6184	0.019 U	5.7268	1.5568	0.017 U	4.2436	1.1536	0.012 U
Bromodichloromethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Bromoform	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Bromomethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Carbon Disulfide	- -	- -	- -	- -	0.0053 J	- -	- -	0.038 J	- -	- -	0.017 U	- -	- -	0.012 U
Carbon Tetrachloride	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Chlorobenzene	34.6	3.5	1.9584	0.1981	0.023 U	1.9999	0.2023	0.019 U	1.9238	0.1946	0.017 U	1.4255	0.1442	0.012 U
Chloroethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Chloroform	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Chloromethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Dibromochloromethane	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Ethylbenzene	212	24	11.9992	1.3584	0.023 U	12.2536	1.3872	0.019 U	11.7872	1.3344	0.017 U	8.7344	0.9888	0.012 U
Methylene Chloride	- -	- -	- -	- -	0.094 U	- -	- -	0.074 U	- -	- -	0.069 U	- -	- -	0.048 U
Styrene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Tetrachloroethene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Toluene	235	49	13.3010	2.7734	0.023 U	13.5830	2.8322	0.019 U	13.0660	2.7244	0.017 U	9.6820	2.0188	0.012 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Trichloroethene	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Vinyl Chloride	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Xylenes (total)	833	92	47.1478	5.2072	0.023 U	48.1474	5.3176	0.019 U	46.3148	5.1152	0.017 U	34.3196	3.7904	0.012 U
Total BTEX	- -	- -	- -	- -	0.023 U	- -	- -	0.019 U	- -	- -	0.017 U	- -	- -	0.012 U
Total VOCs	- -	- -	- -	- -	0.15 J	- -	- -	0.51 J	- -	- -	0.22 J	- -	- -	0.042 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	56,600	- -	- -	57,800	- -	- -	55,600	- -	- -	41,200

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			BG-13			BG-14			BG-15			BG-16		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/16/11			05/16/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
1,1,2-Trichloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
1,1-Dichloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
1,1-Dichloroethene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
1,2-Dichloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
1,2-Dichloropropane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
2-Butanone	- -	- -	- -	- -	0.064	- -	- -	0.019 U	- -	- -	0.041	- -	- -	0.044 U [0.042 U]
2-Hexanone	- -	- -	- -	- -	0.032 U	- -	- -	0.019 U	- -	- -	0.039 U	- -	- -	0.044 UJ [0.042 U]
4-Methyl-2-pentanone	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
Acetone	- -	- -	- -	- -	0.32	- -	- -	0.038 U	- -	- -	0.23	- -	- -	0.084 J [0.21 J]
Benzene	103	28	5.4796	1.4896	0.016 U	5.4796	1.4896	0.0095 U	6.0667	1.6492	0.019 U	5.09[4.94]	1.38[1.34]	0.022 UJ [0.021 U]
Bromodichloromethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Bromoform	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Bromomethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Carbon Disulfide	- -	- -	- -	- -	0.017 J	- -	- -	0.0095 UJ	- -	- -	0.0088 J	- -	- -	0.022 UJ [0.015 J]
Carbon Tetrachloride	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Chlorobenzene	34.6	3.5	1.8407	0.1862	0.016 U	1.8407	0.1862	0.0095 U	2.0379	0.2062	0.019 U	1.71[1.66]	0.17[0.17]	0.022 UJ [0.021 U]
Chloroethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
Chloroform	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
Chloromethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Dibromochloromethane	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Ethylbenzene	212	24	11.2784	1.2768	0.016 U	11.2784	1.2768	0.0095 U	12.4868	1.4136	0.019 U	10.47[10.18]	1.19[1.15]	0.022 UJ [0.021 U]
Methylene Chloride	- -	- -	- -	- -	0.063 U	- -	- -	0.038 U	- -	- -	0.078 U	- -	- -	0.088 U [0.085 U]
Styrene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Tetrachloroethene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Toluene	235	49	12.5020	2.6068	0.016 U	12.5020	2.6068	0.0095 U	13.8415	2.8861	0.019 U	11.61[11.28]	2.42[2.35]	22 UBJ [0.021 U]
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Trichloroethene	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 UJ [0.021 U]
Vinyl Chloride	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	0.022 U [0.021 U]
Xylenes (total)	833	92	44.3156	4.8944	0.016 U	44.3156	4.8944	0.0095 U	49.0637	5.4188	0.019 U	41.15[39.98]	4.55[4.42]	0.022 UJ [0.021 U]
Total BTEX	- -	- -	- -	- -	0.016 U	- -	- -	0.0095 U	- -	- -	0.019 U	- -	- -	22 U [0.021 U]
Total VOCs	- -	- -	- -	- -	0.80 J	- -	- -	0.038 U	- -	- -	0.56 J	- -	- -	0.17 J [0.45 J]
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	53,200	- -	- -	45,300	- -	- -	58,900	- -	- -	49,400 [48,000]

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			BG-17			BG-18			BG-19			BG-20		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/16/11			05/16/11			05/17/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,1-Dichloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,1-Dichloroethene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,2-Dichloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
1,2-Dichloropropane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
2-Butanone	- -	- -	- -	- -	0.043 U	- -	- -	0.033 U	- -	- -	0.21	- -	- -	0.038 U
2-Hexanone	- -	- -	- -	- -	0.043 U	- -	- -	0.033 U	- -	- -	0.040 U	- -	- -	0.038 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Acetone	- -	- -	- -	- -	0.17	- -	- -	0.033 J	- -	- -	0.39 D	- -	- -	0.28 J
Benzene	103	28	5.2942	1.4392	0.022 U	5.8401	1.5876	0.017 U	5.0161	1.3636	0.020 U	4.5835	1.2460	0.019 U
Bromodichloromethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Bromoform	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Bromomethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Carbon Disulfide	- -	- -	- -	- -	0.0086 J	- -	- -	0.017 UJ	- -	- -	0.019 J	- -	- -	0.0080 J
Carbon Tetrachloride	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Chlorobenzene	34.6	3.5	1.7784	0.1799	0.022 U	1.9618	0.1985	0.017 U	1.6850	0.1705	0.020 U	1.5397	0.1558	0.019 U
Chloroethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Chloroform	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Chloromethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Dibromochloromethane	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Ethylbenzene	212	24	10.8968	1.2336	0.022 U	12.0204	1.3608	0.017 U	10.3244	1.1688	0.020 U	9.4340	1.0680	0.019 U
Methylene Chloride	- -	- -	- -	- -	0.086 U	- -	- -	0.067 U	- -	- -	0.080 U	- -	- -	0.076 U
Styrene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Tetrachloroethene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Toluene	235	49	12.0790	2.5186	0.022 U	13.3245	2.7783	0.017 U	11.4445	2.3863	0.0057 J	10.4575	2.1805	0.019 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Trichloroethene	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Vinyl Chloride	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.020 U	- -	- -	0.019 U
Xylenes (total)	833	92	42.8162	4.7288	0.022 U	47.2311	5.2164	0.017 U	40.5671	4.4804	0.020 U	37.0685	4.0940	0.019 U
Total BTEX	- -	- -	- -	- -	0.022 U	- -	- -	0.017 U	- -	- -	0.0057 J	- -	- -	0.019 U
Total VOCs	- -	- -	- -	- -	0.36 J	- -	- -	0.066 J	- -	- -	1.2 J	- -	- -	0.58 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	51,400	- -	- -	56,700	- -	- -	48,700	- -	- -	44,500

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			BG-21			SD-20			SD-21			SD-22		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
			05/17/11			05/13/11			05/13/11			05/13/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,1-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,1-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,2-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
1,2-Dichloropropane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
2-Butanone	- -	- -	- -	- -	0.034 J	- -	- -	0.036 U	- -	- -	0.036 U	- -	- -	0.036 U
2-Hexanone	- -	- -	- -	- -	0.035 U	- -	- -	0.036 U	- -	- -	0.036 U	- -	- -	0.036 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Acetone	- -	- -	- -	- -	0.18 J	- -	- -	0.28	- -	- -	0.11	- -	- -	0.15
Benzene	103	28	5.6238	1.5288	0.017 U	5.6135	1.5260	0.018 U	5.0985	1.3860	0.018 U	5.3148	1.4448	0.018 U
Bromodichloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Bromoform	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Bromomethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Carbon Disulfide	- -	- -	- -	- -	0.0070 J	- -	- -	0.015 J	- -	- -	0.018 U	- -	- -	0.024
Carbon Tetrachloride	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Chlorobenzene	34.6	3.5	1.8892	0.1911	0.017 U	1.8857	0.1908	0.018 U	1.7127	0.1733	0.018 U	1.7854	0.1806	0.018 U
Chloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Chloroform	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Chloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U*	- -	- -	0.018 U*	- -	- -	0.018 U*
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Dibromochloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Ethylbenzene	212	24	11.5752	1.3104	0.017 U	11.5540	1.3080	0.018 U	10.4940	1.1880	0.018 U	10.9392	1.2384	0.018 U
Methylene Chloride	- -	- -	- -	- -	0.070 U	- -	- -	0.017 JB	- -	- -	0.016 JB	- -	- -	0.016 JB
Styrene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Tetrachloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Toluene	235	49	12.8310	2.6754	0.017 U	12.8075	2.6705	0.0031 JB	11.6325	2.4255	0.018 U	12.1260	2.5284	0.018 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Trichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Vinyl Chloride	- -	- -	- -	- -	0.017 U	- -	- -	0.018 U	- -	- -	0.018 U	- -	- -	0.018 U
Xylenes (total)	833	92	45.4818	5.0232	0.017 U	45.3985	5.0140	0.018 U	41.2335	4.5540	0.018 U	42.9828	4.7472	0.018 U
Total BTEX	- -	- -	- -	- -	0.017 U	- -	- -	0.0031 J	- -	- -	0.018 U	- -	- -	0.018 U
Total VOCs	- -	- -	- -	- -	0.44 J	- -	- -	0.63 J	- -	- -	0.25 J	- -	- -	0.38 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	54,600	- -	- -	54,500	- -	- -	49,500	- -	- -	51,600

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-23			SD-23			SD-24			SD-24		
Sample Depth(Feet):			0 - 0.5			8 - 9			0 - 0.5			8 - 9		
			05/10/11			05/12/11			05/10/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,1-Dichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,1-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,2-Dichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
1,2-Dichloropropane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
2-Butanone	- -	- -	- -	- -	0.039 U	- -	- -	0.017 U	- -	- -	0.15	- -	- -	0.011 U
2-Hexanone	- -	- -	- -	- -	0.039 U	- -	- -	0.017 U	- -	- -	0.038 U	- -	- -	0.011 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Acetone	- -	- -	- -	- -	0.26	- -	- -	0.022 J	- -	- -	0.53	- -	- -	0.012 J
Benzene	103	28	4.9234	1.3384	0.019 U	2.0600	0.5600	0.0087 U	5.1603	1.4028	0.019 U	0.0455	0.0124	0.0057 U
Bromodichloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Bromoform	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Bromomethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Carbon Disulfide	- -	- -	- -	- -	0.015 J	- -	- -	0.0082 J	- -	- -	0.035	- -	- -	0.0057 U
Carbon Tetrachloride	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Chlorobenzene	34.6	3.5	1.6539	0.1673	0.019 U	0.6920	0.0700	0.0087 U	1.7335	0.1754	0.019 U	0.0153	0.0015	0.0057 U
Chloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Chloroform	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Chloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U*	- -	- -	0.019 U	- -	- -	0.0057 U*
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Dibromochloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Ethylbenzene	212	24	10.1336	1.1472	0.019 U	4.2400	0.4800	0.0087 U	10.6212	1.2024	0.019 U	0.0937	0.0106	0.0057 U
Methylene Chloride	- -	- -	- -	- -	0.019 JB	- -	- -	0.0087 JB	- -	- -	0.024 JB	- -	- -	0.0073 JB
Styrene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Tetrachloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Toluene	235	49	11.2330	2.3422	0.0014 J	4.7000	0.9800	0.0087 U	11.7735	2.4549	0.0041 J	0.1039	0.0217	0.0057 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Trichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Vinyl Chloride	- -	- -	- -	- -	0.019 U	- -	- -	0.0087 U	- -	- -	0.019 U	- -	- -	0.0057 U
Xylenes (total)	833	92	39.8174	4.3976	0.019 U	16.6600	1.8400	0.0087 U	41.7333	4.6092	0.019 U	0.3682	0.0407	0.0057 U
Total BTEX	- -	- -	- -	- -	0.0014 J	- -	- -	0.0087 U	- -	- -	0.0041 J	- -	- -	0.0057 U
Total VOCs	- -	- -	- -	- -	0.59 J	- -	- -	0.078 J	- -	- -	1.5 J	- -	- -	0.039 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	47,800	- -	- -	20,000	- -	- -	50,100	- -	- -	442

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-25			SD-25			SD-26			SD-27		
Sample Depth(Feet):			0 - 0.5			7.9 - 8.9			0 - 0.5			0 - 0.5		
			05/10/11			05/12/11			05/12/11			05/10/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,1-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,1-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,2-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
1,2-Dichloropropane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
2-Butanone	- -	- -	- -	- -	0.035 U	- -	- -	0.012 U	- -	- -	0.039 U	- -	- -	0.079
2-Hexanone	- -	- -	- -	- -	0.035 U	- -	- -	0.012 U	- -	- -	0.039 U	- -	- -	0.036 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Acetone	- -	- -	- -	- -	0.24	- -	- -	0.024 U	- -	- -	0.18	- -	- -	0.35
Benzene	103	28	4.4702	1.2152	0.017 U	0.1597	0.0434	0.0061 U	4.7998	1.3048	0.020 U	4.6453	1.2628	0.018 U
Bromodichloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Bromoform	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Bromomethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Carbon Disulfide	- -	- -	- -	- -	0.029	- -	- -	0.0061 U	- -	- -	0.011 J	- -	- -	0.018 U
Carbon Tetrachloride	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Chlorobenzene	34.6	3.5	1.5016	0.1519	0.017 U	0.0536	0.0054	0.0061 U	1.6124	0.1631	0.020 U	1.5605	0.1579	0.018 U
Chloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Chloroform	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Chloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U*	- -	- -	0.020 U*	- -	- -	0.018 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Dibromochloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Ethylbenzene	212	24	9.2008	1.0416	0.017 U	0.3286	0.0372	0.0061 U	9.8792	1.1184	0.020 U	9.5612	1.0824	0.018 U
Methylene Chloride	- -	- -	- -	- -	0.018 JB	- -	- -	0.0061 JB	- -	- -	0.019 JB	- -	- -	0.021 JB
Styrene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Tetrachloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Toluene	235	49	10.1990	2.1266	0.0031 J	0.3643	0.0760	0.0061 U	10.9510	2.2834	0.0010 JB	10.5985	2.2099	0.0032 J
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Trichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Vinyl Chloride	- -	- -	- -	- -	0.017 U	- -	- -	0.0061 U	- -	- -	0.020 U	- -	- -	0.018 U
Xylenes (total)	833	92	36.1522	3.9928	0.017 U	1.2912	0.1426	0.0061 U	38.8178	4.2872	0.020 U	37.5683	4.1492	0.018 U
Total BTEX	- -	- -	- -	- -	0.0031 J	- -	- -	0.0061 U	- -	- -	0.0010 J	- -	- -	0.0032 J
Total VOCs	- -	- -	- -	- -	0.58 J	- -	- -	0.012 J	- -	- -	0.42 J	- -	- -	0.90 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	43,400	- -	- -	1,550	- -	- -	46,600	- -	- -	45,100

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-27			SD-28			SD-28			SD-29		
Sample Depth(Feet):			7 - 8			0 - 0.5			6 - 7			0 - 0.5		
			05/12/11			05/10/11			05/12/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,1-Dichloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,1-Dichloroethene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,2-Dichloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
1,2-Dichloropropane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
2-Butanone	- -	- -	- -	- -	0.013 U	- -	- -	0.036 U	- -	- -	0.018 U	- -	- -	0.039 U
2-Hexanone	- -	- -	- -	- -	0.013 U	- -	- -	0.036 U	- -	- -	0.018 U	- -	- -	0.039 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Acetone	- -	- -	- -	- -	0.0062 J	- -	- -	0.24	- -	- -	0.035 J	- -	- -	0.20
Benzene	103	28	0.4388	0.1193	0.0064 U	4.2642	1.1592	0.018 U	1.7819	0.4844	0.0092 U	5.1706	1.4056	0.020 U
Bromodichloromethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Bromoform	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Bromomethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Carbon Disulfide	- -	- -	- -	- -	0.0064 U	- -	- -	0.018	- -	- -	0.015	- -	- -	0.011 J
Carbon Tetrachloride	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Chlorobenzene	34.6	3.5	0.1474	0.0149	0.0064 U	1.4324	0.1449	0.018 U	0.5986	0.0606	0.0092 U	1.7369	0.1757	0.020 U
Chloroethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Chloroform	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Chloromethane	- -	- -	- -	- -	0.0064 U*	- -	- -	0.018 U	- -	- -	0.0092 U*	- -	- -	0.020 U*
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Dibromochloromethane	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Ethylbenzene	212	24	0.9031	0.1022	0.0064 U	8.7768	0.9936	0.018 U	3.6676	0.4152	0.0092 U	10.6424	1.2048	0.020 U
Methylene Chloride	- -	- -	- -	- -	0.0074 JB	- -	- -	0.019 JB	- -	- -	0.011 JB	- -	- -	0.020 JB
Styrene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Tetrachloroethene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Toluene	235	49	1.0011	0.2087	0.0064 U	9.7290	2.0286	0.0014 J	4.0655	0.8477	0.0092 U	11.7970	2.4598	0.0018 JB
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Trichloroethene	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Vinyl Chloride	- -	- -	- -	- -	0.0064 U	- -	- -	0.018 U	- -	- -	0.0092 U	- -	- -	0.020 U
Xylenes (total)	833	92	3.5486	0.3919	0.0064 U	34.4862	3.8088	0.018 U	14.4109	1.5916	0.0092 U	41.8166	4.6184	0.020 U
Total BTEX	- -	- -	- -	- -	0.0064 U	- -	- -	0.0014 J	- -	- -	0.0092 U	- -	- -	0.0018 J
Total VOCs	- -	- -	- -	- -	0.027 J	- -	- -	0.56 J	- -	- -	0.12 J	- -	- -	0.46 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	4,260	- -	- -	41,400	- -	- -	17,300	- -	- -	50,200

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-30			SD-30			SD-31			SD-31		
Sample Depth(Feet):			0 - 0.5			8.5 - 9.5			0 - 0.5			11.5 - 12.5		
			05/10/11			05/12/11			05/10/11			05/12/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,1-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,1-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,2-Dichloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
1,2-Dichloropropane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
2-Butanone	- -	- -	- -	- -	0.034 U	- -	- -	0.017 U	- -	- -	0.13	- -	- -	0.012 U
2-Hexanone	- -	- -	- -	- -	0.034 U	- -	- -	0.017 U	- -	- -	0.037 U	- -	- -	0.012 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Acetone	- -	- -	- -	- -	0.15	- -	- -	0.0052 J	- -	- -	0.48	- -	- -	0.0051 J
Benzene	103	28	4.4290	1.2040	0.017 U	1.4523	0.3948	0.0083 U	4.7277	1.2852	0.018 U	0.0331	0.0090	0.0058 U
Bromodichloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Bromoform	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Bromomethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Carbon Disulfide	- -	- -	- -	- -	0.017	- -	- -	0.0038 J	- -	- -	0.012 J	- -	- -	0.0019 J
Carbon Tetrachloride	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Chlorobenzene	34.6	3.5	1.4878	0.1505	0.017 U	0.4879	0.0494	0.0083 U	1.5881	0.1607	0.018 U	0.0111	0.0011	0.0058 U
Chloroethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Chloroform	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Chloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U*	- -	- -	0.018 U	- -	- -	0.0058 U*
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Dibromochloromethane	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Ethylbenzene	212	24	9.1160	1.0320	0.017 U	2.9892	0.3384	0.0083 U	9.7308	1.1016	0.018 U	0.0682	0.0077	0.0058 U
Methylene Chloride	- -	- -	- -	- -	0.017 JB	- -	- -	0.0094 JB	- -	- -	0.021 JB	- -	- -	0.0072 JB
Styrene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Tetrachloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Toluene	235	49	10.1050	2.1070	0.017 U	3.3135	0.6909	0.00043 JB	10.7865	2.2491	0.0025 J	0.0756	0.0158	0.0058 U
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Trichloroethene	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Vinyl Chloride	- -	- -	- -	- -	0.017 U	- -	- -	0.0083 U	- -	- -	0.018 U	- -	- -	0.0058 U
Xylenes (total)	833	92	35.8190	3.9560	0.017 U	11.7453	1.2972	0.0083 U	38.2347	4.2228	0.018 U	0.2679	0.0296	0.0058 U
Total BTEX	- -	- -	- -	- -	0.017 U	- -	- -	0.00043 J	- -	- -	0.0025 J	- -	- -	0.0058 U
Total VOCs	- -	- -	- -	- -	0.37 J	- -	- -	0.037 J	- -	- -	1.3 J	- -	- -	0.028 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	43,000	- -	- -	14,100	- -	- -	45,900	- -	- -	3,480

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-32			SD-33			SD-33			SD-34		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			10.5 - 11.5			0 - 0.5		
			05/10/11			05/10/11			05/12/11			05/09/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,1,2-Trichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,1-Dichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,1-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,2-Dichloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
1,2-Dichloropropane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
2-Butanone	- -	- -	- -	- -	0.038 U	- -	- -	0.035 U	- -	- -	0.014 U	- -	- -	0.038 U [0.041 U]
2-Hexanone	- -	- -	- -	- -	0.038 U	- -	- -	0.035 U	- -	- -	0.014 U	- -	- -	0.038 U [0.041 U]
4-Methyl-2-pentanone	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Acetone	- -	- -	- -	- -	0.28	- -	- -	0.33	- -	- -	0.028 U	- -	- -	0.17 [0.25]
Benzene	103	28	4.9543	1.3468	0.019 U	4.6041	1.2516	0.018 U	0.0793	0.0216	0.0071 U	4.35[4.50]	1.18[1.22]	0.019 U [0.020 U]
Bromodichloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Bromoform	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Bromomethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Carbon Disulfide	- -	- -	- -	- -	0.025	- -	- -	0.012 J	- -	- -	0.0071 U	- -	- -	0.015 J [0.016 J]
Carbon Tetrachloride	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Chlorobenzene	34.6	3.5	1.6643	0.1684	0.019 U	1.5466	0.1565	0.018 U	0.0266	0.0027	0.0071 U	1.46[1.51]	0.15[0.15]	0.019 U [0.020 U]
Chloroethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Chloroform	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Chloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U*	- -	- -	0.019 U [0.020 U]
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Dibromochloromethane	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Ethylbenzene	212	24	10.1972	1.1544	0.019 U	9.4764	1.0728	0.018 U	0.1632	0.0185	0.0071 U	8.95[9.26]	1.01[1.05]	0.019 U [0.020 U]
Methylene Chloride	- -	- -	- -	- -	0.021 JB	- -	- -	0.019 JB	- -	- -	0.0086 JB	- -	- -	0.021 JB [0.024 JB]
Styrene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Tetrachloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Toluene	235	49	11.3035	2.3569	0.0011 J	10.5045	2.1903	0.0025 J	0.1810	0.0377	0.00021 JB	9.92[10.27]	2.07[2.14]	0.019 U [0.020 U]
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Trichloroethene	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Vinyl Chloride	- -	- -	- -	- -	0.019 U	- -	- -	0.018 U	- -	- -	0.0071 U	- -	- -	0.019 U [0.020 U]
Xylenes (total)	833	92	40.0673	4.4252	0.019 U	37.2351	4.1124	0.018 U	0.6414	0.0708	0.0071 U	35.15[36.40]	3.88[4.02]	0.019 U [0.020 U]
Total BTEX	- -	- -	- -	- -	0.0011 J	- -	- -	0.0025 J	- -	- -	0.00021 J	- -	- -	0.019 U [0.020 U]
Total VOCs	- -	- -	- -	- -	0.65 J	- -	- -	0.73 J	- -	- -	0.017 J	- -	- -	0.41 J [0.58 J]
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	48,100	- -	- -	44,700	- -	- -	770	- -	- -	42,200 [43,700]

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-34			SD-35			SD-35			SD-36		
Sample Depth(Feet):			9 - 10			0 - 0.5			4 - 5			0 - 0.5		
			05/09/11			05/10/11			05/12/11			05/10/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,1-Dichloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,1-Dichloroethene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,2-Dichloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
1,2-Dichloropropane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
2-Butanone	- -	- -	- -	- -	0.013 U	- -	- -	0.025 U	- -	- -	0.018 U	- -	- -	0.098
2-Hexanone	- -	- -	- -	- -	0.013 U	- -	- -	0.025 U	- -	- -	0.018 U	- -	- -	0.037 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Acetone	- -	- -	- -	- -	0.0038 J	- -	- -	0.025 J	- -	- -	0.0071 J	- -	- -	0.48
Benzene	103	28	0.0665	0.0181	0.0066 U	4.5011	1.2236	0.012 U	1.8643	0.5068	0.0090 U	4.5526	1.2376	0.019 U
Bromodichloromethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Bromoform	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Bromomethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Carbon Disulfide	- -	- -	- -	- -	0.0019 J	- -	- -	0.012 U	- -	- -	0.019	- -	- -	0.018 J
Carbon Tetrachloride	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Chlorobenzene	34.6	3.5	0.0224	0.0023	0.0066 U	1.5120	0.1530	0.012 U	0.6263	0.0634	0.0090 U	1.5293	0.1547	0.019 U
Chloroethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Chloroform	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Chloromethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U*	- -	- -	0.019 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Dibromochloromethane	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Ethylbenzene	212	24	0.1370	0.0155	0.0066 U	9.2644	1.0488	0.012 U	3.8372	0.4344	0.0090 U	9.3704	1.0608	0.019 U
Methylene Chloride	- -	- -	- -	- -	0.0082 JB	- -	- -	0.013 JB	- -	- -	0.011 JB	- -	- -	0.018 JB
Styrene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Tetrachloroethene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Toluene	235	49	0.1518	0.0317	0.0066 U	10.2695	2.1413	0.012 U	4.2535	0.8869	0.0090 U	10.3870	2.1658	0.0042 J
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Trichloroethene	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Vinyl Chloride	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.019 U
Xylenes (total)	833	92	0.5381	0.0594	0.0066 U	36.4021	4.0204	0.012 U	15.0773	1.6652	0.0090 U	36.8186	4.0664	0.019 U
Total BTEX	- -	- -	- -	- -	0.0066 U	- -	- -	0.012 U	- -	- -	0.0090 U	- -	- -	0.0042 J
Total VOCs	- -	- -	- -	- -	0.028 J	- -	- -	0.076 J	- -	- -	0.074 J	- -	- -	1.2 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	646	- -	- -	43,700	- -	- -	18,100	- -	- -	44,200

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-36			SD-37			SD-37			SD-38		
Sample Depth(Feet):			13.8 - 14.8			0 - 0.5			6 - 7			0 - 0.5		
			05/12/11			05/09/11			05/09/11			05/17/11		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,1-Dichloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,1-Dichloroethene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,2-Dichloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
1,2-Dichloropropane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
2-Butanone	- -	- -	- -	- -	0.014 U	- -	- -	0.037 U	- -	- -	0.012 U	- -	- -	0.049
2-Hexanone	- -	- -	- -	- -	0.014 U	- -	- -	0.037 U	- -	- -	0.012 U	- -	- -	0.035 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Acetone	- -	- -	- -	- -	0.0051 J	- -	- -	0.16	- -	- -	0.0039 J	- -	- -	0.27 J
Benzene	103	28	0.0346	0.0094	0.0072 U	4.7998	1.3048	0.019 U	0.0216	0.0059	0.0058 U	4.2024	1.1424	0.018 U
Bromodichloromethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Bromoform	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Bromomethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Carbon Disulfide	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.016 J
Carbon Tetrachloride	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Chlorobenzene	34.6	3.5	0.0116	0.0012	0.0072 U	1.6124	0.1631	0.019 U	0.0073	0.0007	0.0058 U	1.4117	0.1428	0.018 U
Chloroethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Chloroform	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Chloromethane	- -	- -	- -	- -	0.0072 U*	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Dibromochloromethane	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Ethylbenzene	212	24	0.0712	0.0081	0.0072 U	9.8792	1.1184	0.019 U	0.0445	0.0050	0.0058 U	8.6496	0.9792	0.018 U
Methylene Chloride	- -	- -	- -	- -	0.0090 JB	- -	- -	0.021 JB	- -	- -	0.0073 JB	- -	- -	0.071 U
Styrene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Tetrachloroethene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Toluene	235	49	0.0790	0.0165	0.00046 JB	10.9510	2.2834	0.00081 J	0.0494	0.0103	0.0058 U	9.5880	1.9992	0.0010 J
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Trichloroethene	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Vinyl Chloride	- -	- -	- -	- -	0.0072 U	- -	- -	0.019 U	- -	- -	0.0058 U	- -	- -	0.018 U
Xylenes (total)	833	92	0.2799	0.0309	0.0072 U	38.8178	4.2872	0.019 U	0.1749	0.0193	0.0058 U	33.9864	3.7536	0.018 U
Total BTEX	- -	- -	- -	- -	0.00046 J	- -	- -	0.00081 J	- -	- -	0.0058 U	- -	- -	0.0010 J
Total VOCs	- -	- -	- -	- -	0.029 J	- -	- -	0.36 J	- -	- -	0.022 J	- -	- -	0.67 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	336	- -	- -	46,600	- -	- -	210	- -	- -	40,800

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-38			SD-39			SD-39		
Sample Depth(Feet):			7 - 8			0 - 0.5			9.5 - 10.5		
Date Collected:	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	05/17/11 TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	05/17/11 Analytical Result
1,1,1-Trichloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,1,2,2-Tetrachloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,1,2-Trichloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,1-Dichloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,1-Dichloroethene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,2-Dichloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
1,2-Dichloropropane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
2-Butanone	- -	- -	- -	- -	0.012 U	- -	- -	0.035 U	- -	- -	0.012 U
2-Hexanone	- -	- -	- -	- -	0.012 U	- -	- -	0.035 U	- -	- -	0.012 U
4-Methyl-2-pentanone	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Acetone	- -	- -	- -	- -	0.0066 J	- -	- -	0.19 J	- -	- -	0.0066 J
Benzene	103	28	0.0751	0.0204	0.0059 U	4.7792	1.2992	0.017 U	0.0339	0.0092	0.0060 U
Bromodichloromethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Bromoform	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Bromomethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Carbon Disulfide	- -	- -	- -	- -	0.0059 U	- -	- -	0.0088 J	- -	- -	0.0060 U
Carbon Tetrachloride	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Chlorobenzene	34.6	3.5	0.0252	0.0026	0.0059 U	1.6054	0.1624	0.017 U	0.0114	0.0012	0.0060 U
Chloroethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Chloroform	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Chloromethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
cis-1,2-Dichloroethene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
cis-1,3-Dichloropropene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Dibromochloromethane	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Ethylbenzene	212	24	0.1545	0.0175	0.0059 U	9.8368	1.1136	0.017 U	0.0697	0.0079	0.0060 U
Methylene Chloride	- -	- -	- -	- -	0.024 U	- -	- -	0.069 U	- -	- -	0.024 U
Styrene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Tetrachloroethene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Toluene	235	49	0.1713	0.0357	0.0059 U	10.9040	2.2736	0.017 U	0.0773	0.0161	0.00025 J
trans-1,2-Dichloroethene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
trans-1,3-Dichloropropene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Trichloroethene	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Vinyl Chloride	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.0060 U
Xylenes (total)	833	92	0.6073	0.0671	0.0059 U	38.6512	4.2688	0.017 U	0.2741	0.0303	0.0060 U
Total BTEX	- -	- -	- -	- -	0.0059 U	- -	- -	0.017 U	- -	- -	0.00025 J
Total VOCs	- -	- -	- -	- -	0.013 J	- -	- -	0.40 J	- -	- -	0.014 J
Miscellaneous											
Total Organic Carbon	- -	- -	- -	- -	729	- -	- -	46,400	- -	- -	329

Note:
Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 15 of 15 for an example calculation.

Table 3-6
Summary of Sediment Sample Analytical Results - TCL VOCs

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Notes:

1. Sediment screening levels are based on New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments" Benthic screening levels, which are presented in micrograms per gram organic carbon (ug/gOC), are adjusted for each sample based on sample-specific Total Organic Carbon (TOC) concentrations. For example, for benzene (benthic aquatic life chronic value of 28 ug/g OC and acute value of 103 ug/g OC) and sample BG-01-10 (TOC of 9.2% or 92 g OC/kg), the criteria are adjusted as follows:

   Benthic Aquatic Life Chronic Toxicity: (28 ug/g OC) * (92 g OC/kg) = 2576 ug/kg or 2.58 mg/kg
   Benthic Aquatic Life Acute Toxicity: (103 ug/g OC) * (92 g OC/kg) = 9476 ug/kg or 9.48 mg/kg
2. All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
   compounds (VOCs) is the sum of the detected target compound list (TCL) VOCs.
3. Duplicate sample results are shown in brackets.

Data Qualifiers

* Laboratory duplicate analysis was outside control limits.
B indicates analyte was also detected in the associated method blank.
D indicates compound was quantitated using a secondary dilution.
J indicates an estimated value.
R indicates the value was rejected.
U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 3-7
Summary of Sediment Sample Analytical Results - PCBs

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-01			BG-10			BG-14			BG-19		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:			05/17/11			05/17/11			05/16/11			05/17/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Aroclor-1016	- -	- -	- -	- -	0.059 U	- -	- -	0.063 U	- -	- -	0.16 U	- -	- -	0.068 U
Aroclor-1221	- -	- -	- -	- -	0.059 U	- -	- -	0.063 U	- -	- -	0.16 U	- -	- -	0.068 U
Aroclor-1232	- -	- -	- -	- -	0.059 U	- -	- -	0.063 U	- -	- -	0.16 U	- -	- -	0.068 U
Aroclor-1242	- -	- -	- -	- -	0.059 U	- -	- -	0.063 U	- -	- -	0.16 U	- -	- -	0.068 U
Aroclor-1248	- -	- -	- -	- -	0.15 J	- -	- -	0.18	- -	- -	1.7	- -	- -	0.13
Aroclor-1254	- -	- -	- -	- -	0.21 JN	- -	- -	0.17 JN	- -	- -	1.0	- -	- -	0.12 JN
Aroclor-1260	- -	- -	- -	- -	0.10	- -	- -	0.077	- -	- -	0.16 U	- -	- -	0.075
Total PCBs	2,760.8	19.3	255.0979	1.7833	0.46 J	159.5742	1.1155	0.43 J	125.0642	0.8743	2.7	134.4510	0.9399	0.33 J
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	92,400	- -	- -	57,800	- -	- -	45,300	- -	- -	48,700

Note:
1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 3 of 3 for an example calculation.

Table 3-7
Summary of Sediment Sample Analytical Results - PCBs

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment
Bronx, New York

Location ID:			SD-21			SD-28			SD-29			SD-33		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:			05/13/11			05/10/11			05/12/11			05/10/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Aroclor-1016	- -	- -	- -	- -	0.061 U	- -	- -	0.061 U	- -	- -	0.067 U [0.067 U]	- -	- -	0.060 U
Aroclor-1221	- -	- -	- -	- -	0.061 U	- -	- -	0.061 U	- -	- -	0.067 U [0.067 U]	- -	- -	0.060 U
Aroclor-1232	- -	- -	- -	- -	0.061 U	- -	- -	0.061 U	- -	- -	0.067 U [0.067 U]	- -	- -	0.060 U
Aroclor-1242	- -	- -	- -	- -	0.045 J	- -	- -	0.061 U	- -	- -	0.072 [0.099 p]	- -	- -	0.060 U
Aroclor-1248	- -	- -	- -	- -	0.061 U	- -	- -	0.054 J	- -	- -	0.067 U [0.067 U]	- -	- -	0.16
Aroclor-1254	- -	- -	- -	- -	0.054 J	- -	- -	0.064	- -	- -	0.087 [0.11]	- -	- -	0.13
Aroclor-1260	- -	- -	- -	- -	0.034 J	- -	- -	0.044 J	- -	- -	0.047 J [0.057 J]	- -	- -	0.073
Total PCBs	2,760.8	19.3	136.6596	0.9554	0.13 J	114.2971	0.7990	0.16 J	138.5922	0.9689	0.21 J [0.27 J]	123.4078	0.8627	0.36
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	49,500	- -	- -	41,400	- -	- -	50,200	- -	- -	44,700

Note:
1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 3 of 3 for an example calculation.

Table 3-7
Summary of Sediment Sample Analytical Results - PCBs

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Notes:

1. Sediment screening levels are based on New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments" Benthic screening levels, which are presented in micrograms per gram organic carbon (ug/gOC), are adjusted for each sample based on sample-specific Total Organic Carbon (TOC) concentrations. For example, for total PCBs (benthic aquatic life chronic value of 19.3 ug/g OC and acute value of 2760.8 ug/g OC) and sample BG-01-10 (TOC of 9.2% or 92 g OC/kg), the criteria are adjusted as follows:

   Benthic Aquatic Life Chronic Toxicity: (19.3 ug/g OC) * (92 g OC/kg) = 1775.6 ug/kg or 1.78 mg/kg

   Benthic Aquatic Life Acute Toxicity: (2760.8 ug/g OC) * (92 g OC/kg) = 253993.6 ug/kg or 254.00 mg/kg
2. All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
3. Total polychlorinated biphenyls (PCBs) is the sum of the individual detected aroclors.
4. Duplicate sample results are shown in brackets.

Data Qualifiers

J indicates an estimated value.

U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.

N indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

p indicates the percent difference between the results from the two gas chromotography columns is above criteria.

Table 3-8
Summary of Sediment Sample Analytical Results - Pesticides/Herbicides
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID:			BG-01			BG-10			BG-14			BG-19		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:			05/17/11			05/17/11			05/16/11			05/17/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Organochlorine Pesticides														
4,4'-DDD	- -	- -	- -	- -	0.077 J	- -	- -	0.010 J	- -	- -	0.021 J	- -	- -	0.0068 J
4,4'-DDE	- -	- -	- -	- -	0.23 UJ	- -	- -	0.012 UB	- -	- -	0.028 J	- -	- -	0.013 UB
4,4'-DDT	1,100	1	101.6400	0.0924	0.23 UJ	63.5800	0.0578	0.016 J	49.8300	0.0453	0.0063 UJ	53.5700	0.0487	0.015 J
Aldrin	- -	- -	- -	- -	0.12 U	- -	- -	0.0063 U	- -	- -	0.0032 U	- -	- -	0.0068 U
Alpha-BHC	- -	- -	- -	- -	0.12 UJ	- -	- -	0.0063 U	- -	- -	0.0032 U	- -	- -	0.0068 U
Alpha-Chlordane	1.4	0.03	0.1294	0.0028	0.12 U	0.0809	0.0017	0.0094 J	0.0634	0.0014	0.0058	0.0682	0.0015	0.0062 J
Beta-BHC	- -	- -	- -	- -	0.12 UJ	- -	- -	0.0063 U	- -	- -	0.0032 U	- -	- -	0.0068 U
Delta-BHC	- -	- -	- -	- -	0.12 UJ	- -	- -	0.0063 U	- -	- -	0.0032 U	- -	- -	0.0068 U
Dieldrin	- -	9	- -	0.8316	0.23 UJ	- -	0.5202	0.012 U	- -	0.4077	0.0063 U	- -	0.4383	0.013 U
Endosulfan I	0.78	0.03	0.0721	0.0028	0.12 UJ	0.0451	0.0017	0.0063 U	0.0353	0.0014	0.0032 U	0.0380	0.0015	0.0068 U
Endosulfan II	0.78	0.03	0.0721	0.0028	0.23 UJ	0.0451	0.0017	0.012 U	0.0353	0.0014	0.0063 U	0.0380	0.0015	0.013 U
Endosulfan Sulfate	0.78	0.03	0.0721	0.0028	0.23 UJ	0.0451	0.0017	0.012 U	0.0353	0.0014	0.0063 U	0.0380	0.0015	0.013 U
Endrin	- -	4	- -	0.3696	0.23 UJ	- -	0.2312	0.012 U	- -	0.1812	0.0063 U	- -	0.1948	0.013 U
Endrin Aldehyde	- -	4	- -	0.3696	0.011 UJ	- -	0.2312	0.012 U	- -	0.1812	0.0063 U	- -	0.1948	0.013 U
Endrin Ketone	- -	4	- -	0.3696	0.23 UJ	- -	0.2312	0.012 UJ	- -	0.1812	0.0063 UJ	- -	0.1948	0.013 UJ
Gamma-BHC (Lindane)	- -	- -	- -	- -	0.12 UJ	- -	- -	0.0063 U	- -	- -	0.0032 U	- -	- -	0.0068 U
Gamma-Chlordane	1.4	0.03	0.1294	0.0028	**0.54**	0.0809	0.0017	0.062	0.0634	0.0014	0.023	0.0682	0.0015	0.042
Heptachlor	13.1	0.1	1.2104	0.0092	0.12 UJ	0.7572	0.0058	0.0063 UJ	0.5934	0.0045	0.0064 J	0.6380	0.0049	0.0068 UJ
Heptachlor Epoxide	13.1	0.1	1.2104	0.0092	0.12 UJ	0.7572	0.0058	0.0063 U	0.5934	0.0045	0.0032 U	0.6380	0.0049	0.0068 U
Methoxychlor	- -	0.6	- -	0.0554	1.2 UJ	- -	0.0347	R	- -	0.0272	R	- -	0.0292	R
Toxaphene	3.2	0.01	0.2957	0.0009	5.8 UJ	0.1850	0.0006	0.31 U	0.1450	0.0005	0.16 U	0.1558	0.0005	0.33 U
Herbicides														
2,4,5-T	- -	- -	- -	- -	0.029 U	- -	- -	0.031 U	- -	- -	0.016 U	- -	- -	0.033 U
2,4,5-TP	- -	- -	- -	- -	0.029 U	- -	- -	0.031 U	- -	- -	0.016 U	- -	- -	0.033 U
2,4-D	- -	- -	- -	- -	0.029 U	- -	- -	0.22 JN	- -	- -	0.084 JN	- -	- -	0.033 U
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	92,400	- -	- -	57,800	- -	- -	45,300	- -	- -	48,700

Note:
1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 3 of 3 for an example calculation.

Table 3-8
Summary of Sediment Sample Analytical Results - Pesticides/He
Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Inv
Bronx, New York

Location ID:			SD-21			SD-28			SD-29			SD-33		
Sample Depth(Feet):			0 - 0.5			0 - 0.5			0 - 0.5			0 - 0.5		
Date Collected:			05/13/11			05/10/11			05/12/11			05/10/11		
	NYSDEC Contaminated Sediments Benthic Acute (bold) [1]	NYSDEC Contaminated Sediments Benthic Chronic (shade) [1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result	TOC Adjusted NYSDEC Contaminated Sediments Benthic Acute (bold)[1]	TOC Adjusted NYSDEC Contaminated Sediments Benthic Chronic (shade)[1]	Analytical Result
Organochlorine Pesticides														
4,4'-DDD	- -	- -	- -	- -	0.014	- -	- -	0.0068 Jp	- -	- -	0.0080 J [0.0070 J]	- -	- -	0.0077 J
4,4'-DDE	- -	- -	- -	- -	0.015 pB	- -	- -	0.018	- -	- -	0.017 B* [0.011 JpB]	- -	- -	0.015
4,4'-DDT	1,100	1	54.4500	0.0495	0.027 *	45.5400	0.0414	0.027	55.2200	0.0502	0.021 * [0.018 *]	49.1700	0.0447	0.018
Aldrin	- -	- -	- -	- -	0.0060 U	- -	- -	0.0061 U	- -	- -	0.0067 U [0.0067 U]	- -	- -	0.0060 U
Alpha-BHC	- -	- -	- -	- -	0.0026 Jp	- -	- -	0.0061 U	- -	- -	0.0067 U [0.0023 Jp]	- -	- -	0.0060 U
Alpha-Chlordane	1.4	0.03	0.0693	0.0015	0.014	0.0580	0.0012	0.0053 Jp	0.0703	0.0015	0.0089 [0.0051 Jp]	0.0626	0.0013	0.0089
Beta-BHC	- -	- -	- -	- -	0.025 p	- -	- -	0.0061 U	- -	- -	0.0067 U [0.0067 U]	- -	- -	0.0060 U
Delta-BHC	- -	- -	- -	- -	0.0060 U	- -	- -	0.0061 U	- -	- -	0.0067 U [0.0067 U]	- -	- -	0.0060 U
Dieldrin	- -	9	- -	0.4455	0.0062 Jp	- -	0.3726	0.0040 Jp	- -	0.4518	0.0038 Jp [0.0034 Jp]	- -	0.4023	0.0039 Jp
Endosulfan I	0.78	0.03	0.0386	0.0015	0.0060 U	0.0323	0.0012	0.0061 U	0.0392	0.0015	0.0067 U [0.0067 U]	0.0349	0.0013	0.0060 U
Endosulfan II	0.78	0.03	0.0386	0.0015	0.012 U	0.0323	0.0012	0.012 U	0.0392	0.0015	0.013 U [0.013 U]	0.0349	0.0013	0.012 U
Endosulfan Sulfate	0.78	0.03	0.0386	0.0015	0.012 U	0.0323	0.0012	0.012 U	0.0392	0.0015	0.013 U [0.013 U]	0.0349	0.0013	0.012 U
Endrin	- -	4	- -	0.1980	0.012 U	- -	0.1656	0.012 U	- -	0.2008	0.013 U [0.013 U]	- -	0.1788	0.012 U
Endrin Aldehyde	- -	4	- -	0.1980	0.0036 J	- -	0.1656	0.0043 J	- -	0.2008	0.0048 Jp [0.0024 Jp]	- -	0.1788	0.0029 J
Endrin Ketone	- -	4	- -	0.1980	0.012 U	- -	0.1656	0.012 U	- -	0.2008	0.013 U [0.013 U]	- -	0.1788	0.012 U
Gamma-BHC (Lindane)	- -	- -	- -	- -	0.0026 Jp	- -	- -	0.0061 U	- -	- -	0.0067 U [0.0067 U]	- -	- -	0.0060 U
Gamma-Chlordane	1.4	0.03	0.0693	0.0015	**0.089**	0.0580	0.0012	0.0089 p	0.0703	0.0015	0.0079 p [0.027 p]	0.0626	0.0013	0.046
Heptachlor	13.1	0.1	0.6485	0.0050	0.010 pB*	0.5423	0.0041	0.0030 J	0.6576	0.0050	0.0031 JB* [0.0067 U*]	0.5856	0.0045	0.0025 J
Heptachlor Epoxide	13.1	0.1	0.6485	0.0050	0.0060 U	0.5423	0.0041	0.0025 Jp	0.6576	0.0050	0.0023 Jp [0.0025 Jp]	0.5856	0.0045	0.0021 Jp
Methoxychlor	- -	0.6	- -	0.0297	0.060 U	- -	0.0248	0.061 U	- -	0.0301	0.067 U [0.067 U]	- -	0.0268	0.060 U
Toxaphene	3.2	0.01	0.1584	0.0005	0.30 U	0.1325	0.0004	0.30 U	0.1606	0.0005	0.33 U [0.33 U]	0.1430	0.0004	0.29 U
Herbicides														
2,4,5-T	- -	- -	- -	- -	0.058 U	- -	- -	0.059 U	- -	- -	0.065 U [0.066 U]	- -	- -	0.058 U
2,4,5-TP	- -	- -	- -	- -	0.058 U	- -	- -	0.059 U	- -	- -	0.065 U [0.066 U]	- -	- -	0.058 U
2,4-D	- -	- -	- -	- -	0.058 U	- -	- -	0.059 U	- -	- -	0.065 U [0.066 U]	- -	- -	0.058 U
Miscellaneous														
Total Organic Carbon	- -	- -	- -	- -	49,500	- -	- -	41,400	- -	- -	50,200	- -	- -	44,700

Note:
1. Benthic screening criteria are presented in microgram per gram of organic carbon in sediment (ug/gOC). For comparison with analytical results, screening levels are normalized based on the Total Organic Carbon for each sample location. See notes on page 3 of 3 for an example calculation.

Table 3-8
Summary of Sediment Sample Analytical Results - Pesticides/Herbicides

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Notes:

1. Sediment screening levels are based on New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments" Benthic screening levels, which are presented in micrograms per gram organic carbon (ug/gOC), are adjusted for each sample based on sample-specific Total Organic Carbon (TOC) concentrations. For example, for 4,4'-DDT (benthic aquatic life chronic value of 1 ug/g OC and acute value of 1100 ug/g OC) and sample BG-01-10 (TOC of 9.2% or 92 g OC/kg), the criteria are adjusted as follows:

   Benthic Aquatic Life Chronic Toxicity: (1 ug/g OC) * (92 g OC/kg) = 92 ug/kg or 0.09 mg/kg

   Benthic Aquatic Life Acute Toxicity: (1100 ug/g OC) * (92 g OC/kg) = 101200 ug/kg or 101.2 mg/kg

2. All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
3. Duplicate sample results are shown in brackets.

Data Qualifiers

* Laboratory duplicate analysis was outside control limits.
B indicates analyte was also detected in the associated method blank.
J indicates an estimated value.
N indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
R indicates that the value was rejected.
U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.
p indicates the percent difference between the results from the two gas chromotography columns is above criteria.

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	BG-01 0 - 0.5 05/17/11	BG-02 0 - 0.5 05/17/11	BG-03 0 - 0.5 05/17/11	BG-04 0 - 0.5 05/16/11	BG-05 0 - 0.5 05/16/11	BG-06 0 - 0.5 05/16/11
Aluminum	- -	- -	13,500	14,700	10,500	17,800	18,700	15,300
Antimony	2	25	14.0 UJ	14.6 UJ	9.40 UJ	16.1 UJ	14.1 UJ	14.4 UJ
Arsenic	6	33	**10.1 J**	**11.3 J**	**6.70 J**	20.5 U	**13.9 J**	**12.5 J**
Barium	- -	- -	153 J	141 J	126 J	179 J	181 J	151 J
Beryllium	- -	- -	0.420 J	0.510 J	0.380 J	0.510 J	0.670 J	0.480 J
Cadmium	0.6	9	**2.20 J**	**1.90 J**	**1.90 J**	**2.50 J**	**2.50 J**	**1.80 J**
Calcium	- -	- -	16,100 J	13,500 J	12,000 J	16,000 J	16,900 J	13,300 J
Chromium	26	110	**75.9**	**77.9**	**60.9**	**89.9**	**92.5**	**77.8**
Cobalt	- -	- -	10.3	10.1	7.90	11.3	12.6	11.1
Copper	16	110	**293**	**261**	**211**	**318**	**338**	**277**
Iron	20,000	40,000	**31,800**	**33,500**	**24,200**	**37,600**	**42,400**	**32,000**
Lead	31	110	**331 J**	**294 J**	**336 J**	**340 J**	**361 J**	**318 J**
Magnesium	- -	- -	12,300	14,000	10,800	14,300	15,200	13,400
Manganese	460	1,100	253	254	209	337	350	270
Mercury	0.15	1.3	**1.10 J**	**1.00 J**	**3.90 J**	**1.10 J**	**1.30 J**	**0.950 J**
Nickel	16	50	**42.0**	**44.2**	**34.9**	**43.9**	**49.1**	**45.4**
Potassium	- -	- -	3,690	4,050	2,870	4,930	4,810	4,230
Selenium	- -	- -	31.8 U	33.1 U	21.4 U	36.6 U	32.1 U	32.7 U
Silver	1	2.2	**3.40 J**	**8.80**	**3.20**	**3.60 J**	**3.60 J**	**3.40 J**
Sodium	- -	- -	22,100	23,400	12,300	27,200	23,200	21,400
Thallium	- -	- -	12.7 U	13.2 U	8.60 U	14.6 U	12.8 U	13.1 U
Vanadium	- -	- -	48.2 J	49.4 J	38.4 J	58.6 J	61.8 J	54.3 J
Zinc	120	270	**750 J**	**668 J**	**526 J**	**801 J**	**851 J**	**725 J**
Cyanide	- -	- -	1.74 UJ	1.85 UJ	1.18 UJ	2.02 UJ	1.74 UJ	1.78 UJ
Total RCRA 8 Metals	- -	- -	577 J	536 J	539 J	616 J	656 J	565 J
Total Other Inorganics	- -	- -	101,000 J	104,000 J	73,700 J	119,000 J	123,000 J	101,000 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	BG-07 0 - 0.5 05/17/11	BG-08 0 - 0.5 05/17/11	BG-09 0 - 0.5 05/17/11	BG-10 0 - 0.5 05/17/11	BG-11 0 - 0.5 05/17/11
Aluminum	- -	- -	15,600 [16,300]	17,500	14,600	16,100	17,500
Antimony	2	25	15.7 UJ [16.2 UJ]	16.8 UJ	18.7 UJ	15.2 UJ	14.3 UJ
Arsenic	6	33	**7.30 J [12.9 J]**	**14.1 J**	**15.8 J**	**16.6 J**	**9.00 J**
Barium	- -	- -	185 J [162 J]	136 J	118 J	112 J	137 J
Beryllium	- -	- -	0.380 J [0.580 J]	0.660 J	0.540 J	0.570 J	0.680 J
Cadmium	0.6	9	**2.00 J [1.80 J]**	**1.80 J**	5.70 U	**1.30 J**	**1.70 J**
Calcium	- -	- -	17,400 J [10,400 J]	10,000 J	8,780 J	8,550 J	8,640 J
Chromium	26	110	**75.0 [79.8]**	**83.0**	**65.3**	**73.9**	**84.8**
Cobalt	- -	- -	10.8 [10.7]	11.1	10.9	10.0	11.4
Copper	16	110	**278 [254]**	**249**	**169**	**208**	**248**
Iron	20,000	40,000	**35,000 [34,700]**	**38,300**	**36,300**	**35,300**	**37,200**
Lead	31	110	**319 J [276 J]**	**246 J**	**206 J**	**188 J**	**240 J**
Magnesium	- -	- -	14,200 [12,700]	13,100	14,000	12,300	12,500
Manganese	460	1,100	250 [327]	382	288	366	375
Mercury	0.15	1.3	**0.700 J [0.830 J]**	**0.740 J**	**0.430 J**	**0.650 J**	**0.820 J**
Nickel	16	50	**42.7 [38.8]**	**39.2**	**59.1**	**40.7**	**40.5**
Potassium	- -	- -	4,310 [4,590]	5,020	4,440	4,760	4,820
Selenium	- -	- -	35.7 U [36.7 U]	38.1 U	42.6 U	34.5 U	32.5 U
Silver	1	2.2	**3.50 J [3.30 J]**	**3.40 J**	**2.00 J**	**2.80 J**	**3.30 J**
Sodium	- -	- -	23,600 [26,100]	28,300	27,300	24,800	22,800
Thallium	- -	- -	14.3 U [14.7 U]	15.3 U	17.0 U	13.8 U	13.0 U
Vanadium	- -	- -	54.9 J [52.5 J]	50.8 J	51.3 J	47.3 J	55.4 J
Zinc	120	270	**737 J [610 J]**	**545 J**	**414 J**	**427 J**	**559 J**
Cyanide	- -	- -	1.92 UJ [2.00 UJ]	2.10 UJ	2.34 UJ	1.86 UJ	1.74 UJ
Total RCRA 8 Metals	- -	- -	593 J [537 J]	485 J	408 J	395 J	477 J
Total Other Inorganics	- -	- -	111,000 J [106,000 J]	113,000 J	106,000 J	103,000 J	105,000 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	BG-12 0 - 0.5 05/17/11	BG-13 0 - 0.5 05/16/11	BG-14 0 - 0.5 05/16/11	BG-15 0 - 0.5 05/16/11	BG-16 0 - 0.5 05/16/11
Aluminum	- -	- -	15,900	20,000	8,710	16,100	18,700 [18,700]
Antimony	2	25	10.0 UJ	12.6 UJ	7.60 UJ	15.2 UJ	17.4 UJ [16.7 UJ]
Arsenic	6	33	**21.0**	**11.6 J**	4.50 J	19.4 U	**17.7 J [13.5 J]**
Barium	- -	- -	99.2 J	141 J	69.7 J	130 J	130 [134 J]
Beryllium	- -	- -	0.790 J	0.740 J	0.860 J	0.630 J	0.760 J [0.760 J]
Cadmium	0.6	9	**2.10 J**	**1.90 J**	0.460 J	**1.50 J**	5.30 U [5.10 U]
Calcium	- -	- -	3,500 J	9,380 J	4,310 J	7,300 J	8,430 [7,970 J]
Chromium	26	110	**53.5**	**90.5**	**37.9**	**73.2**	**88.6 [91.6]**
Cobalt	- -	- -	11.4	11.2	8.70	9.00	11.5 [11.7]
Copper	16	110	**67.3**	**246**	**153**	**181**	**199 [218]**
Iron	20,000	40,000	**57,600**	**34,300**	19,100	**31,300**	**38,900 [41,800]**
Lead	31	110	**166 J**	**245 J**	**175 J**	**180 J**	**192 [205 J]**
Magnesium	- -	- -	9,650	12,500	5,960	10,600	13,400 [13,200]
Manganese	460	1,100	**549**	408	187	344	**473 [491]**
Mercury	0.15	1.3	**0.700 J**	**0.960 J**	**0.240 J**	**0.900 J**	**0.940 [0.910 J]**
Nickel	16	50	**45.0**	**39.8**	**38.5**	**32.4**	**38.3 [39.2]**
Potassium	- -	- -	4,450	5,360	2,590	4,610	5,510 [5,320]
Selenium	- -	- -	22.7 U	28.6 U	17.2 U	34.6 U	39.5 U [37.9 U]
Silver	1	2.2	**1.40 J**	**3.70 J**	1.00 J	**2.60 J**	**3.30 J [3.70 J]**
Sodium	- -	- -	12,500	20,300	8,060	19,200	29,900 [27,900]
Thallium	- -	- -	9.10 U	11.4 U	6.90 U	13.8 U	15.8 U [15.2 U]
Vanadium	- -	- -	41.8 J	55.6 J	26.4 J	47.4 J	51.6 [51.8 J]
Zinc	120	270	**1,050 J**	**515 J**	**553 J**	**393 J**	**412 [457 J]**
Cyanide	- -	- -	1.21 UJ	1.59 UJ	0.951 UJ	1.94 UJ	2.19 UJ [2.11 UJ]
Total RCRA 8 Metals	- -	- -	344 J	495 J	289 J	388 J	433 J [449 J]
Total Other Inorganics	- -	- -	105,000 J	103,000 J	49,700 J	90,100 J	116,000 J [116,000 J]

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	BG-17 0 - 0.5 05/16/11	BG-18 0 - 0.5 05/16/11	BG-19 0 - 0.5 05/17/11	BG-20 0 - 0.5 05/17/11	BG-21 0 - 0.5 05/17/11	SD-20 0 - 0.5 05/13/11
Aluminum	- -	- -	18,100	14,000	19,800	17,400	18,200	18,200
Antimony	2	25	17.4 UJ	13.8 UJ	16.0 UJ	15.5 UJ	14.4 UJ	14.3 U
Arsenic	6	33	**7.10 J**	**6.60 J**	**17.3 J**	**16.6 J**	**16.5 J**	**13.6 J**
Barium	- -	- -	117 J	143 J	118 J	115 J	198 J	131
Beryllium	- -	- -	0.670 J	0.540 J	0.780 J	0.770 J	0.710 J	0.700 J
Cadmium	0.6	9	**1.50 J**	**1.10 J**	**1.10 J**	**0.970 J**	**1.30 J**	**1.50 J**
Calcium	- -	- -	6,310 J	4,460 J	6,850 J	6,290 J	5,940 J	8,730
Chromium	26	110	**83.2**	**60.0**	**92.7**	**86.2**	**87.8**	**95.1**
Cobalt	- -	- -	11.1	8.80	11.7	10.6	11.4	12.0
Copper	16	110	**185**	**142**	**194**	**186**	**234**	**225**
Iron	20,000	40,000	**33,300**	**28,600**	**38,500**	**38,100**	**35,800**	**36,200**
Lead	31	110	**175 J**	**187 J**	**178 J**	**180 J**	**271 J**	**309**
Magnesium	- -	- -	12,100	8,620	12,600	11,800	11,800	11,800
Manganese	460	1,100	419	310	**539**	454	416	**504**
Mercury	0.15	1.3	**0.930 J**	**0.700 J**	**0.990 J**	**1.00 J**	**1.10 J**	**1.00**
Nickel	16	50	**35.1**	**30.0**	**38.3**	**35.8**	**39.6**	**40.2**
Potassium	- -	- -	5,730	4,190	5,810	4,980	5,080	5,110
Selenium	- -	- -	39.5 U	31.3 U	36.3 U	35.3 U	32.6 U	32.4 U
Silver	1	2.2	**2.90 J**	**2.10 J**	**3.70 J**	**3.50 J**	**3.70 J**	**3.50 J**
Sodium	- -	- -	26,500	16,000	26,100	25,000	20,400	17,800
Thallium	- -	- -	15.8 U	12.5 U	14.5 U	14.1 U	13.1 U	13.0 U
Vanadium	- -	- -	50.7 J	41.9 J	47.8 J	46.8 J	49.9 J	50.8
Zinc	120	270	**375 J**	**346 J**	**351 J**	**357 J**	**535 J**	**439**
Cyanide	- -	- -	2.16 UJ	1.67 UJ	1.99 UJ	1.90 UJ	1.75 UJ	1.81 U
Total RCRA 8 Metals	- -	- -	388 J	401 J	412 J	403 J	579 J	555 J
Total Other Inorganics	- -	- -	103,000 J	76,700 J	111,000 J	105,000 J	98,500 J	99,100 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-21 0 - 0.5 05/13/11	SD-22 0 - 0.5 05/13/11	SD-23 0 - 0.5 05/10/11	SD-23 8 - 9 05/12/11	SD-24 0 - 0.5 05/10/11	SD-24 8 - 9 05/12/11
Aluminum	- -	- -	17,000	18,300	18,600	16,600	17,300	7,410
Antimony	2	25	14.0 U	14.6 U	15.5 U	7.10 U	15.2 U	4.70 U
Arsenic	6	33	**12.4 J**	**14.3 J**	**10.5 J**	**12.9**	**11.0 J**	5.90 U
Barium	- -	- -	111	115	115	60.5	107	55.3
Beryllium	- -	- -	0.680 J	0.650 J	0.670 J	0.670 J	0.750 J	1.40 U
Cadmium	0.6	9	**1.10 J**	**1.60 J**	**1.20 J**	2.20 U	**1.10 J**	1.40 U
Calcium	- -	- -	6,390	8,050	6,610	4,570	7,090	1,000
Chromium	26	110	**89.4**	**92.2**	**87.2**	**38.1**	**82.9**	22.9
Cobalt	- -	- -	11.6	12.0	11.5	11.3	10.9	10.6
Copper	16	110	**203**	**202**	**183**	**16.4**	**176**	15.1
Iron	20,000	40,000	**36,000**	**33,100**	**35,400**	**31,800**	**35,900**	9,880
Lead	31	110	**195**	**195**	**197**	12.5	**163**	2.90 J
Magnesium	- -	- -	11,600	12,200	11,700	8,470	11,900	2,410
Manganese	460	1,100	452	**493**	**489**	**796**	**534**	98.5
Mercury	0.15	1.3	**1.20**	**1.10**	**1.00**	0.0150 J	**1.00**	0.0550 U
Nickel	16	50	**37.5**	**37.8**	**35.7**	**25.9**	**35.7**	**17.0**
Potassium	- -	- -	4,940	5,220	5,420	4,410	5,130	2,030
Selenium	- -	- -	31.8 U	33.2 U	35.3 U	16.2 U	34.5 U	10.6 U
Silver	1	2.2	**4.00 J**	**3.40 J**	**3.40 J**	2.20 U	**3.20 J**	1.40 U
Sodium	- -	- -	20,500	19,800	24,000	1,560	24,100	110 J
Thallium	- -	- -	12.7 U	13.3 U	14.1 U	6.50 U	13.8 U	4.20 U
Vanadium	- -	- -	48.2	50.4	46.8	46.5	47.0	18.2
Zinc	120	270	**386**	**407**	**325**	68.2	**326**	24.4
Cyanide	- -	- -	1.78 U	1.81 U	1.93 U	0.871 U	1.90 U	0.574 U
Total RCRA 8 Metals	- -	- -	414 J	423 J	415 J	124 J	369 J	81.1 J
Total Other Inorganics	- -	- -	97,600 J	97,900 J	103,000 J	68,400 J	103,000 J	23,000 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-25 0 - 0.5 05/10/11	SD-25 7.9 - 8.9 05/12/11	SD-26 0 - 0.5 05/12/11	SD-27 0 - 0.5 05/10/11	SD-27 7 - 8 05/12/11	SD-28 0 - 0.5 05/10/11
Aluminum	- -	- -	19,800	7,730	19,500	18,000	15,200	20,700
Antimony	2	25	14.1 U	5.00 U	15.9 U	14.4 U	5.30 U	14.4 U
Arsenic	6	33	**7.40 J**	2.70 J	**12.6 J**	**8.30 J**	6.70 U	**9.10 J**
Barium	- -	- -	120	33.6	120	112	48.7	114
Beryllium	- -	- -	0.890 J	0.220 J	0.760 J	0.760 J	0.210 J	0.810 J
Cadmium	0.6	9	**1.10 J**	1.50 U	**1.00 J**	4.40 U	1.60 U	**1.30 J**
Calcium	- -	- -	6,790	785	7,290	6,890	2,240	6,600
Chromium	26	110	**96.7**	22.0	**92.4**	**88.6**	**43.0**	**92.7**
Cobalt	- -	- -	12.4	5.50	11.2	11.5	10.0	12.6
Copper	16	110	**201**	9.80	**192**	**187**	**21.0**	**192**
Iron	20,000	40,000	**43,700**	10,300	**38,800**	**38,300**	**33,200**	**34,400**
Lead	31	110	**185**	3.90 J	**191**	**171**	12.5	**177**
Magnesium	- -	- -	12,800	2,590	12,500	11,900	4,630	12,200
Manganese	460	1,100	**519**	125	**498**	**531**	188	**506**
Mercury	0.15	1.3	**0.910**	0.00710 J	**1.10**	**0.960**	0.0650	**0.950**
Nickel	16	50	**39.5**	11.3	**39.0**	**36.0**	**19.0**	**38.6**
Potassium	- -	- -	5,350	1,290	5,550	5,140	1,680	5,680
Selenium	- -	- -	31.9 U	11.3 U	36.0 U	32.7 U	12.0 U	32.8 U
Silver	1	2.2	**4.10 J**	1.50 U	**3.60 J**	**3.60 J**	0.240 J	**3.20 J**
Sodium	- -	- -	22,100	442	25,000	22,200	379	20,300
Thallium	- -	- -	12.8 U	4.50 U	14.4 U	13.1 U	4.80 U	13.1 U
Vanadium	- -	- -	51.3	19.6	50.8	44.0	40.5	49.5
Zinc	120	270	**362**	29.0	**359**	**332**	44.4	**357**
Cyanide	- -	- -	1.75 U	0.607 U	1.97 U	1.80 U	0.638 U	1.79 U
Total RCRA 8 Metals	- -	- -	415 J	62.2 J	422 J	384 J	105 J	398 J
Total Other Inorganics	- -	- -	112,000 J	23,300 J	110,000 J	104,000 J	57,700 J	101,000 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
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Former Unionport Works Site - Westchester Creek Sediment Investigation
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Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-28 6 - 7 05/12/11	SD-29 0 - 0.5 05/12/11	SD-30 0 - 0.5 05/10/11	SD-30 8.5 - 9.5 05/12/11	SD-31 0 - 0.5 05/10/11	SD-31 11.5 - 12.5 05/12/11
Aluminum	- -	- -	17,200	20,000	21,300	13,800	18,500	4,470
Antimony	2	25	7.40 U	15.8 U	13.5 U	6.70 U	14.9 U	4.60 U
Arsenic	6	33	**12.1**	**11.6 J**	**17.9**	**8.40 J**	**12.0 J**	5.80 U
Barium	- -	- -	60.6	116	130	48.3	105	29.3
Beryllium	- -	- -	0.630 J	0.790 J	0.850 J	0.520 J	0.730 J	0.0740 J
Cadmium	0.6	9	2.20 U	**1.20 J**	**1.30 J**	2.00 U	4.50 U	1.40 U
Calcium	- -	- -	2,540	7,250	7,760	2,590	6,220	709
Chromium	26	110	**42.5**	**93.1**	**101**	**34.4**	**87.1**	17.7
Cobalt	- -	- -	12.9	11.9	13.1	10.1	11.4	2.40
Copper	16	110	**22.4**	**192**	**217**	15.3	**174**	4.20
Iron	20,000	40,000	**31,100**	**38,400**	**37,700**	**27,900**	**31,800**	4,730
Lead	31	110	20.7	**193**	**208**	9.40	**165**	3.10 J
Magnesium	- -	- -	9,410	12,400	12,500	7,790	11,300	1,600
Manganese	460	1,100	**991**	**554**	**543**	**819**	**546**	56.8
Mercury	0.15	1.3	0.0360 J	**0.880**	**1.10**	0.0160 J	**1.00**	0.00560 J
Nickel	16	50	**28.0**	**39.5**	**41.4**	**22.8**	**34.9**	7.40
Potassium	- -	- -	4,960	5,830	5,730	3,960	5,350	660
Selenium	- -	- -	16.8 U	35.9 U	30.7 U	15.3 U	33.9 U	10.4 U
Silver	1	2.2	0.230 J	**3.70 J**	**3.90 J**	0.320 J	**3.00 J**	1.40 U
Sodium	- -	- -	3,540	22,300	20,400	2,900	22,100	681
Thallium	- -	- -	6.70 U	14.3 U	12.3 U	6.10 U	13.6 U	4.20 U
Vanadium	- -	- -	47.4	53.4	52.1	38.0	43.7	10.4
Zinc	120	270	80.8	**349**	**384**	58.1	**299**	16.3
Cyanide	- -	- -	0.920 U	1.96 U	1.72 U	0.391 J	1.83 U	0.579 U
Total RCRA 8 Metals	- -	- -	136 J	419 J	463 J	101 J	373 J	50.1 J
Total Other Inorganics	- -	- -	69,900 J	107,000 J	107,000 J	59,900 J	96,400 J	12,900 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
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Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-32 0 - 0.5 05/10/11	SD-33 0 - 0.5 05/10/11	SD-33 10.5 - 11.5 05/12/11	SD-34 0 - 0.5 05/09/11	SD-34 9 - 10 05/09/11
Aluminum	- -	- -	19,000	19,100	22,300	18,800 [19,300]	9,210
Antimony	2	25	15.5 U	14.4 U	5.60 U	15.6 U [15.9 U]	5.30 U
Arsenic	6	33	**13.7 J**	**10.2 J**	7.20 U	**14.9 J [12.6 J]**	6.80 U
Barium	- -	- -	116	111	132	112 [114]	45.2
Beryllium	- -	- -	0.870 J	0.770 J	0.500 J	0.740 J [0.820 J]	0.0980 J
Cadmium	0.6	9	4.70 U	4.40 U	1.70 U	**1.20 J [4.80 U]**	1.60 U
Calcium	- -	- -	6,810	6,590	1,210	6,620 [6,900]	1,170
Chromium	26	110	**93.0**	**90.1**	**51.6**	**90.3 [93.8]**	19.0
Cobalt	- -	- -	12.2	11.1	17.8	12.0 [12.5]	5.60
Copper	16	110	**190**	**182**	**42.0**	**188 [192]**	**17.7**
Iron	20,000	40,000	**41,500**	**37,500**	**33,000**	**39,000 [37,400]**	12,100
Lead	31	110	**176**	**174**	8.30	**175 [174]**	2.50 J
Magnesium	- -	- -	12,500	12,000	7,890	12,000 [12,500]	3,400
Manganese	460	1,100	**551**	**565**	**463**	**516 [532]**	169
Mercury	0.15	1.3	**0.750**	**1.00**	0.0650 U	**0.900 [0.980]**	0.0600 U
Nickel	16	50	**37.5**	**36.7**	**44.1**	**37.3 [39.0]**	15.0
Potassium	- -	- -	5,480	5,520	6,850	5,380 [5,430]	2,640
Selenium	- -	- -	35.1 U	32.8 U	12.8 U	35.4 U [36.2 U]	12.1 U
Silver	1	2.2	**3.50 J**	**3.40 J**	0.120 J	**3.50 J [3.60 J]**	1.60 U
Sodium	- -	- -	22,800	22,400	989	22,600 [23,900]	935
Thallium	- -	- -	14.1 U	13.1 U	5.10 U	14.2 U [14.5 U]	4.80 U
Vanadium	- -	- -	52.1	48.9	54.5	47.1 [47.3]	23.7
Zinc	120	270	**340**	**311**	65.0	**341 [349]**	28.3
Cyanide	- -	- -	1.91 U	1.77 U	0.712 U	1.90 U [2.03 U]	0.659 U
Total RCRA 8 Metals	- -	- -	403 J	390 J	192 J	398 J [399 J]	66.7 J
Total Other Inorganics	- -	- -	109,000 J	104,000 J	72,900 J	106,000 J [107,000 J]	29,700 J

Table 3-9
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Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-35 0 - 0.5 05/10/11	SD-35 4 - 5 05/12/11	SD-36 0 - 0.5 05/10/11	SD-36 13.8 - 14.8 05/12/11	SD-37 0 - 0.5 05/09/11	SD-37 6 - 7 05/09/11
Aluminum	- -	- -	12,000	17,200	21,600	17,400	19,800	4,880
Antimony	2	25	10.1 U	7.20 U	15.4 U	5.70 U	14.7 U	4.80 U
Arsenic	6	33	**6.50 J**	**12.4**	**16.6 J**	7.20 U	**12.3 J**	6.10 U
Barium	- -	- -	80.6	39.7	128	200	113	22.9
Beryllium	- -	- -	0.710 J	0.770 J	0.860 J	1.70 U	0.770 J	1.40 U
Cadmium	0.6	9	**0.710 J**	2.20 U	4.70 U	1.70 U	**1.20 J**	1.40 U
Calcium	- -	- -	32,500	3,000	7,490	1,470	6,530	1,080
Chromium	26	110	**42.6**	**36.8**	**101**	**51.4**	**92.0**	10.8
Cobalt	- -	- -	9.40	11.2	12.6	11.8	12.6	4.20
Copper	16	110	**176**	14.7	**208**	**27.1**	**187**	12.4
Iron	20,000	40,000	**22,200**	**32,500**	**41,500**	**27,300**	**34,100**	6,720
Lead	31	110	**134**	14.0	**195**	2.50 J	**182**	1.50 J
Magnesium	- -	- -	12,000	8,250	13,300	8,750	10,500	2,090
Manganese	460	1,100	339	**817**	**602**	285	**549**	77.7
Mercury	0.15	1.3	**0.410**	0.0150 J	**1.00**	0.0720 U	**1.00**	0.0530 U
Nickel	16	50	**39.5**	**27.5**	**41.0**	**38.2**	**38.3**	9.50
Potassium	- -	- -	2,850	4,090	6,110	10,700	5,150	1,690
Selenium	- -	- -	22.9 U	16.5 U	34.9 U	12.9 U	33.3 U	10.8 U
Silver	1	2.2	**1.10 J**	2.20 U	**3.80 J**	0.150 J	**3.20 J**	1.40 U
Sodium	- -	- -	14,300	4,780	23,200	321	8,100	245
Thallium	- -	- -	9.20 U	6.60 U	14.0 U	5.20 U	13.3 U	4.30 U
Vanadium	- -	- -	47.8	41.9	54.3	46.8	47.8	14.1
Zinc	120	270	**561**	75.3	**359**	67.7	**344**	17.4
Cyanide	- -	- -	1.24 U	0.905 U	1.87 U	0.721 U	1.87 U	0.201 J
Total RCRA 8 Metals	- -	- -	266 J	103 J	445 J	254 J	405 J	35.2 J
Total Other Inorganics	- -	- -	97,000 J	70,800 J	114,000 J	66,400	85,400 J	16,800 J

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Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Location ID: Sample Depth(Feet): Date Collected:	NYSDEC Contaminated Sediments Lowest Effect Level (bold) [1]	NYSDEC Contaminated Sediments Severe Effect Level (shade) [1]	SD-38 0 - 0.5 05/17/11	SD-38 7 - 8 05/17/11	SD-39 0 - 0.5 05/17/11	SD-39 9.5 - 10.5 05/17/11
Aluminum	- -	- -	21,300	12,900	18,500	4,580
Antimony	2	25	14.1 UJ	4.70 UJ	13.7 UJ	4.90 UJ
Arsenic	6	33	**11.1 J**	2.30 J	**7.10 J**	6.20 U
Barium	- -	- -	122 J	81.9 J	130 J	27.6 J
Beryllium	- -	- -	0.950 J	1.40 U	0.760 J	1.50 U
Cadmium	0.6	9	**1.30 J**	1.40 U	**1.50 J**	1.50 U
Calcium	- -	- -	6,850 J	1,390 J	7,180 J	871 J
Chromium	26	110	**101**	25.6	**90.7**	10.5
Cobalt	- -	- -	12.9	7.10	11.1	3.80
Copper	16	110	**214**	**18.1**	**214**	12.1
Iron	20,000	40,000	**42,400**	18,600	**34,800**	8,760
Lead	31	110	**199 J**	4.10 J	**228 J**	1.10 J
Magnesium	- -	- -	13,000	4,780	11,700	2,220
Manganese	460	1,100	**557**	175	460	70.1
Mercury	0.15	1.3	**1.30 J**	0.0530 UJ	**1.10 J**	0.0570 UJ
Nickel	16	50	**41.9**	**22.7**	**40.0**	9.70
Potassium	- -	- -	5,860	4,230	5,220	1,630
Selenium	- -	- -	32.0 U	10.6 U	31.1 U	11.0 U
Silver	1	2.2	**4.40**	0.140 J	**4.70**	0.0990 J
Sodium	- -	- -	22,400	346	21,400	534
Thallium	- -	- -	12.8 U	4.20 U	12.4 U	4.40 U
Vanadium	- -	- -	54.0 J	30.4 J	48.8 J	13.4 J
Zinc	120	270	**388 J**	37.3 J	**419 J**	17.2 J
Cyanide	- -	- -	1.77 UJ	0.588 UJ	1.73 UJ	0.600 UJ
Total RCRA 8 Metals	- -	- -	440 J	114 J	463 J	39.3 J
Total Other Inorganics	- -	- -	113,000 J	42,500 J	100,000 J	18,700 J

Table 3-9
Summary of Sediment Sample Analytical Results - TAL Metals and Cyanide

Remedial Investigation
Consolidated Edison Company of New York, Inc.
Former Unionport Works Site - Westchester Creek Sediment Investigation
Bronx, New York

Notes: **NYSDEC Contaminated Sediments Severe Effect Level (shade)[1]**

[1] Sediment screening levels are based on New York State Department of Environmental Conservation (NYSDEC) document entitled "Technical Guidance for Screening Contaminated Sediments" dated January 25, 1999.

2. All results are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)
3. Duplicate sample results are shown in brackets.
4. TAL = target analyte list for metals and cyanide was derived from the USEPA Priority Pollutant List presented in Appendix A to 40 Code of Federal Regulations (CFR) Part 423.

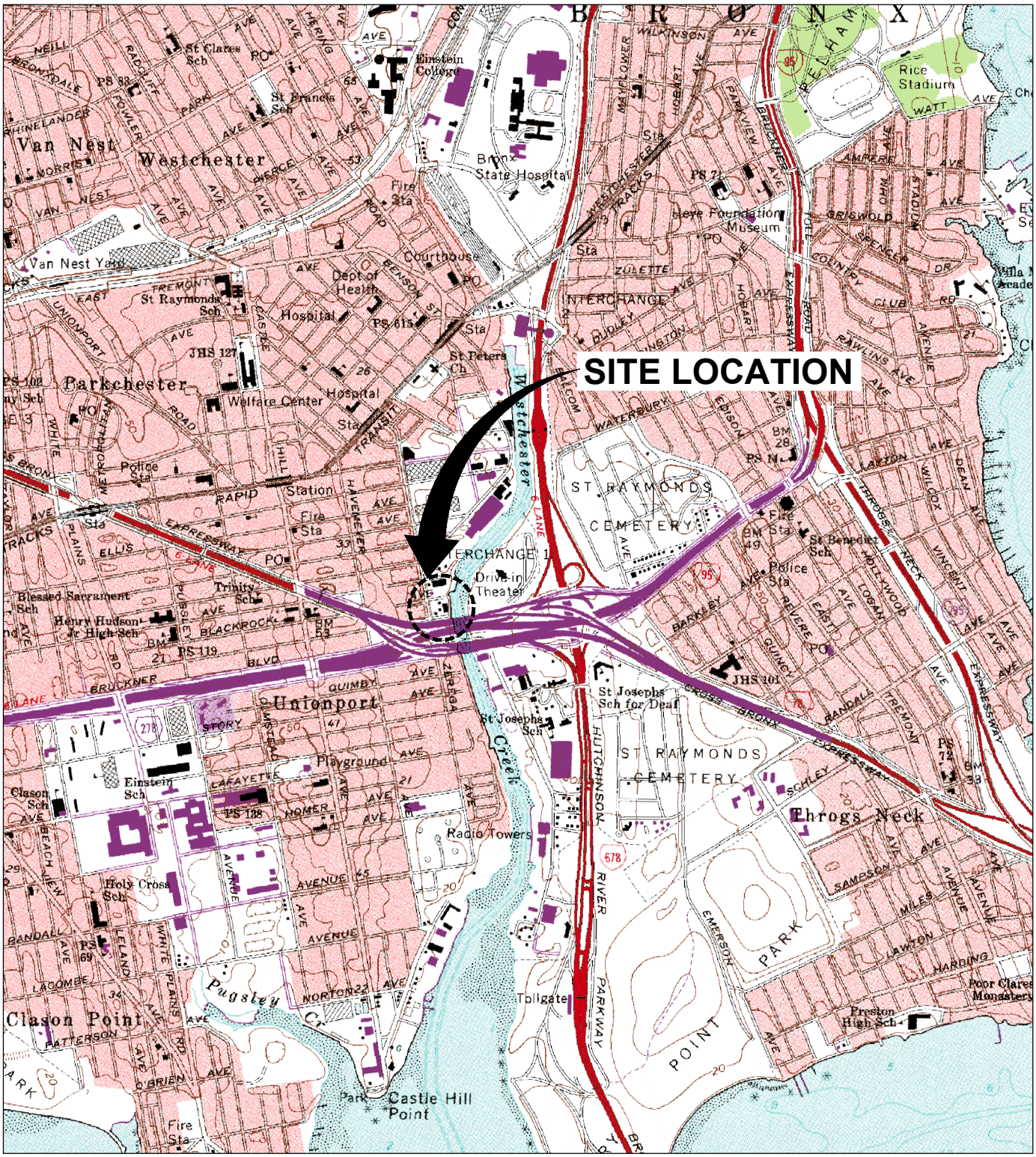
Data Qualifiers

J indicates an estimated value.

U indicates the compound was analyzed for but not detected. The associated value is the compound quantitation limit.

ARCADIS

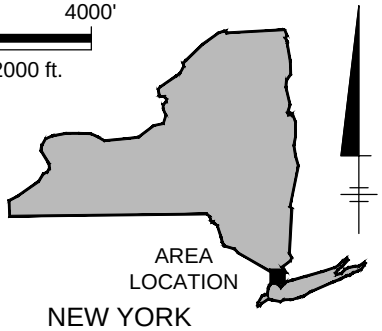
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., FLUSHING, N.Y., 1966, PHOTOREVISED 1979.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE, BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SITE LOCATION MAP

ARCADIS

FIGURE
1-1

CITY: SYRACUSE, NY GROUP: ENVCAD DB: K.SARTORI PM: M.JONES TM/TR: T. NICHOLS LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0043015\0001\0004\DWG\SCR\43015N01.dwg LAYOUT: 1-1 SAVED: 10/31/2011 10:39 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:41 PM BY: SCHILLING, ADAM
XREFS: IMAGES: 43015X01.tif



LEGEND:

- MW-112 — MONITORING WELL
- SB-128 — SOIL BORING
- TP-106 — TEST PIT
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.

0 200' 400'

GRAPHIC SCALE

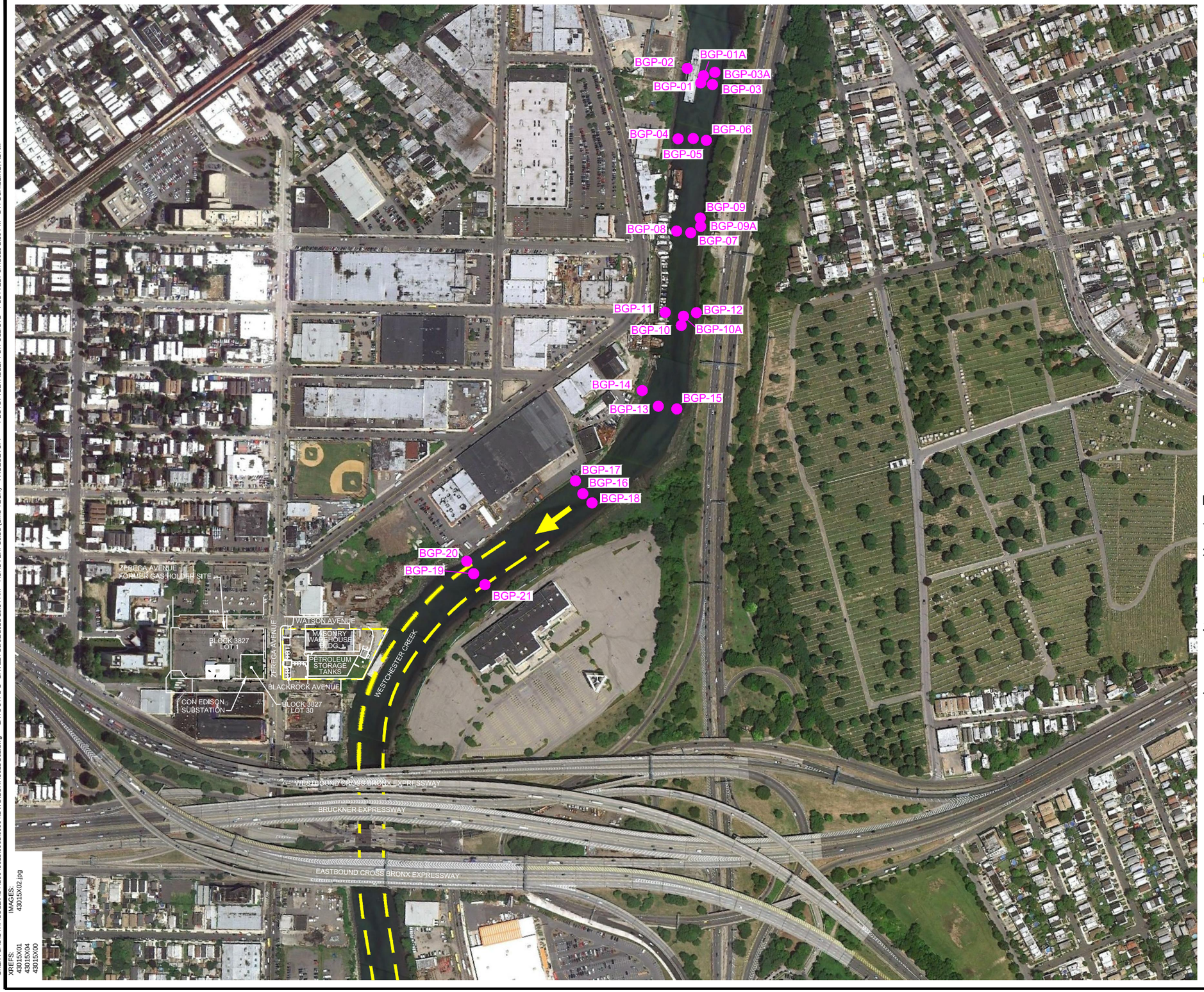
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SITE PLAN

ARCADIS

FIGURE
1-2

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\043015\0001\000\041DWG\SCR\43015B03.dwg LAYOUT: 1-2 SAVED: 10/31/2011 10:50 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:52 PM BY: SCHILLING, ADAM
XREFS:
43015X01
43015X04
43015X00
IMAGES:
43015X02.jpg



LEGEND:

- BGP-01 ● BACKGROUND SEDIMENT PROBE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKGROUND SEDIMENT PROBE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.

0 400' 800'
GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT PROBE LOCATIONS

ARCADIS

FIGURE
2-1

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\00430150\0001\0000\4\DWG\SCR43015G02.dwg LAYOUT: 2-1 SAVED: 10/31/2011 10:54 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:56 PM BY: SCHILLING, ADAM
XREFS:
43015X01
43015X04
43015X00
IMAGES:
43015X02.jpg



LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKGROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.

0 400' 800'

GRAPHIC SCALE

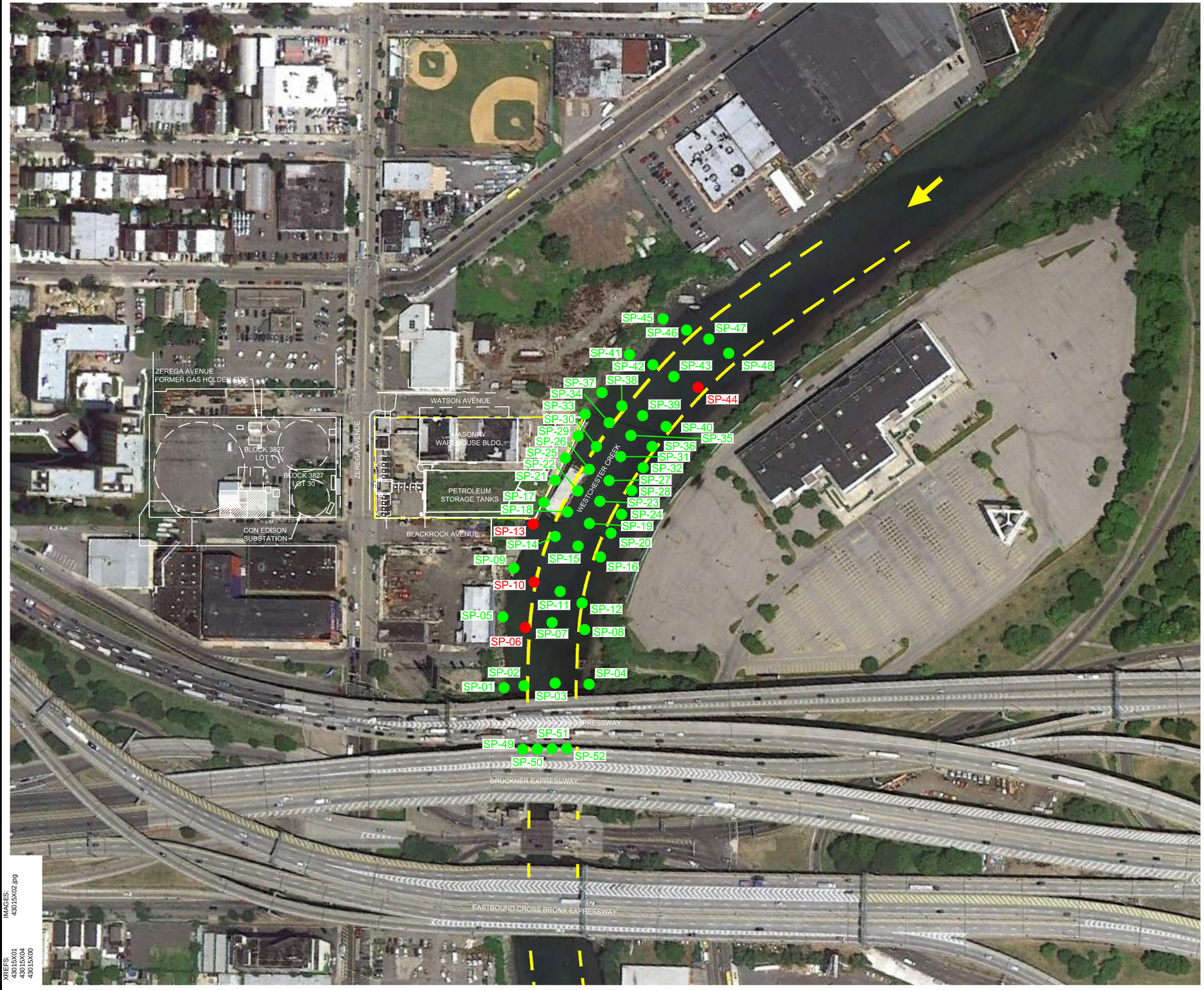
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE LOCATIONS

ARCADIS

FIGURE
2-2

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00430\15\0001\0000\AtDWG\SCR\43015G04.dwg LAYOUT: 2-2 SAVED: 10/31/2011 10:57 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:57 PM BY: SCHILLING, ADAM
XREFS: 43015X01 43015X04 43015X00 IMAGES: 43015X02.jpg



LEGEND:

- SD-25 ● SEDIMENT PROBE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL

SHEEN OBSERVATIONS:

- SHEEN OBSERVED DURING PROBING
- NO SHEEN OBSERVED DURING PROBING
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
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4. SEDIMENT PROBE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.

0 200' 400'

GRAPHIC SCALE

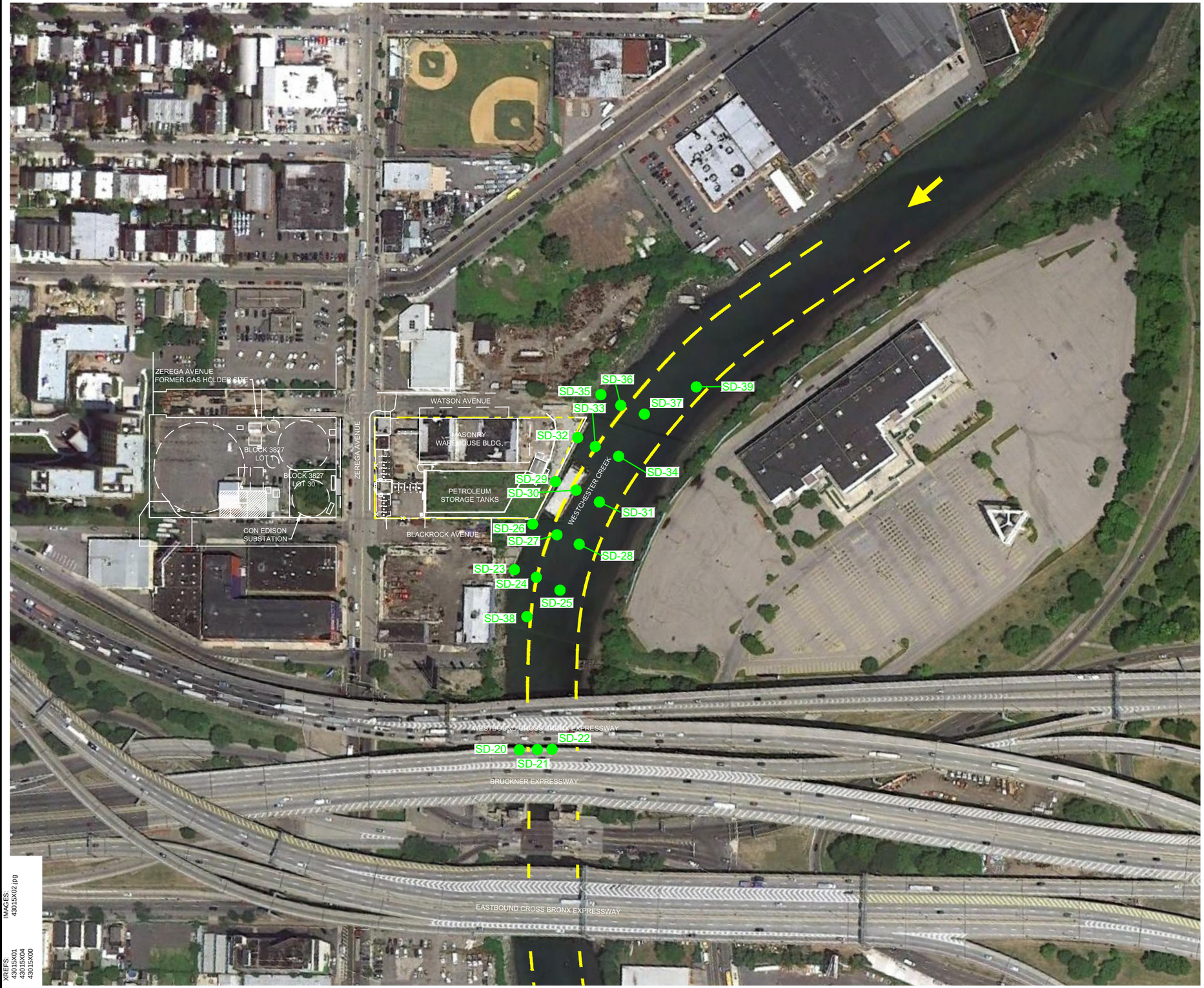
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT PROBE LOCATIONS AND OBSERVATIONS

ARCADIS

FIGURE
2-3

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0043015\0001\000004\DWG\SCR\43015G03.dwg LAYOUT: 2-3 SAVED: 10/31/2011 11:01 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:56 PM BY: SCHILLING, ADAM
XREFS: IMAGES:
43015X01 43015X02.jpg
43015X04
43015X00



LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.

0 200' 400'

GRAPHIC SCALE

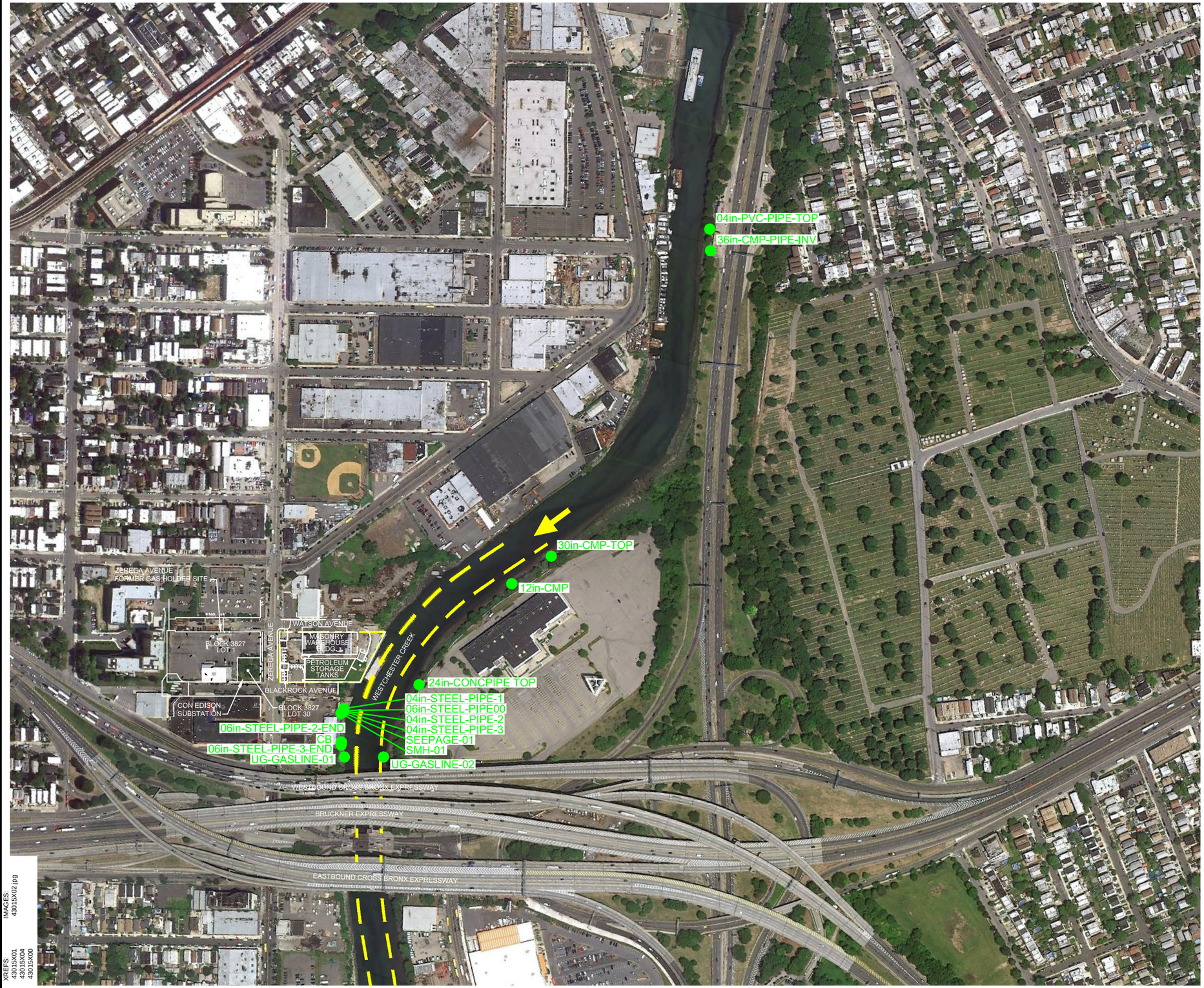
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE LOCATIONS

ARCADIS

FIGURE
2-4

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: LPOSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00430150\0001\0000\AtDWG\SCR43015G05.dwg LAYOUT: 2-4 SAVED: 10/31/2011 11:04 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:57 PM BY: SCHILLING, ADAM
XREFS: 43015X01 43015X04 43015X00
IMAGES: 43015X02.jpg



LEGEND:

- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SITE RECONNAISSANCE AND SURVEY ACTIVITIES WERE COMPLETED BY ARCADIS ON MAY 2, 2011 DURING HIGH TIDE.

0 400' 800'

GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SITE RECONNAISSANCE

ARCADIS

FIGURE
3-1

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00430150001\000004\DWG\SCR430150B04.dwg LAYOUT: 3-1 SAVED: 10/31/2011 11:08 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:52 PM BY: SCHILLING, ADAM
XREFS: 43015X01 43015X04 43015X00
IMAGES: 43015X02.jpg



WATSON AVENUE

GATE

GRASS/GRAVEL

1 STY BRICK BLDG.

2 STY BRICK BLDG.

1 STY BRICK BLDG.

MASONRY WAREHOUSE BLDG.

CONCRETE

UNPAVED AREA

BULKHEAD

WESTCHESTER CREEK

FLOW DIRECTION

1 STY BRICK BLDG.

TIMBER STEPS

SLOPE

PETROLEUM STORAGE TANKS

1 STY BRICK BLDG.

ZEREGA AVENUE

SIDEWALK

BLACKROCK AVENUE

SB-123
MW-113B
SB-124B
MW-113A
SB-124A
SB-128
MW-112
SB-125
SB-126A
MW-110A
MW-110B
SB-126B
SB-112
TP-103
TP-102
MW-101A
SB-102A
MW-101B
SB-102B
SB-101
TP-104
TP-105
SB-122
TP-114
SB-113
SB-115
SD-32
SD-33
SD-34
B
B'
MW-4
SB-109
SB-111
MW-111
SB-127
MW-03-OLD
TP-106
TP-108
MW-02-OLD
SB-103
TP-107
TP-110
SB-120
SB-107
TP-112
SB-108
MW-07-OLD
TP-113
MW-103
SB-110
MW-08-OLD
SB-114
SB-116
C
MW-109
SB-104
SD-29
SD-30
SD-31
C'
A
MW-5
MW-102
SB-106
MW-108
TP-111
SB-121
SB-105
SB-118
MW-06-OLD
MW-01-OLD
MW-107
SB-119
SD-26
SD-27
SD-28
A'

0 40' 80'
GRAPHIC SCALE

LEGEND:

- CHAINLINK FENCE
- IRON FENCE
- PROPERTY BOUNDARY
- OVERHEAD STRUCTURE
- CATCH BASIN
- OIL RECOVERY SHED
- OIL/WATER SEPARATOR
- MW-112 NEW MONITORING WELL
- MW-01-OLD PREVIOUS MONITORING WELL
- SB-128 SOIL BORING
- TP-106 TEST PIT
- A—A' LINE OF CROSS SECTION

NOTES:

1. BASEMAP PREPARED FROM SURVEY BY MUÑOZ ENGINEERING P.C., 2008. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED.

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

GEOLOGIC CROSS SECTION LOCATION MAP

ARCADIS

FIGURE 3-2

CITY: SYRACUSE, NY DIV/GROUP: ENV/CADD DB: R. ALLEN, A. SCHILLING, P. LISTER PM/TM: M. JONES TR: E. DENKENBERGER LYR:ON=*;OFF=REF; (FRZ)
C:\Users\aschilling\Desktop\B0043015\0002\0002ADWG\43015B02.dwg LAYOUT: 3-2 SAVED: 11/1/2011 1:28 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
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PROJECTNAME: ----
IMAGES: 43015X01.jpg
XREFS: 43015X00 43015X02

CITY:SYRACUSE, N.Y. GROUP:ENVCAD-141 DB: CM, RCB, R.ALLEN PM: M. JONES LYR:ON=*;OFF=REF* (FRZ)
C:\Users\aschilling\Desktop\IB\0043015\000210\0022\DWG\43015V07.dwg LAYOUT: 3-3 SAVED: 11/1/2011 1:30 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/8/2013 10:40 AM BY: SCHILLING, ADAM
XREFS:
43015X00
IMAGES:

A
WEST

A'
EAST

PETROLEUM STORAGE TANKS

CONC. RETAINING WALL

SB-106/MW-102 (SECTION E-E')

SB-121/MW-108

SB-105

MW-5

SB-118

TIMBER BULKHEAD

SD-26 (32' SW OF LINE)

SD-27

SD-28

ZEREGA AVENUE

WESTCHESTER CREEK

ELEVATION (FT AMSL)

30
20
10
0
−10
−20
−30
−40

FILL

SILT

BOULDER

GLACIAL TILL

ALLUVIAL CLAY

GNEISS

LEGEND:

- WELL OR BORING ID (SB-121/MW-108)
- GROUND SURFACE
- GROUNDWATER
- LITHOLOGIC CONTACT (DASHED WHERE INFERRED)
- SCREEN
- SUMP
- BOTTOM OF BORING

- UNDIFFERENTIATED FILL
- SILT
- ALLUVIAL CLAY
- GLACIAL TILL (SAND AND SILT)
- GNEISS (HARTLAND FORMATION)
- OBSERVED NAPL

NOTES:

1. WATER ELEVATION IN WESTCHESTER CREEK IS APPROXIMATE.
2. GROUNDWATER ELEVATIONS AS MEASURED ON 4/27/2009.
3. ALL ELEVATIONS REFER TO NAVD 1988 VERTICAL DATUM.

0 10' 20'
VERTICAL SCALE

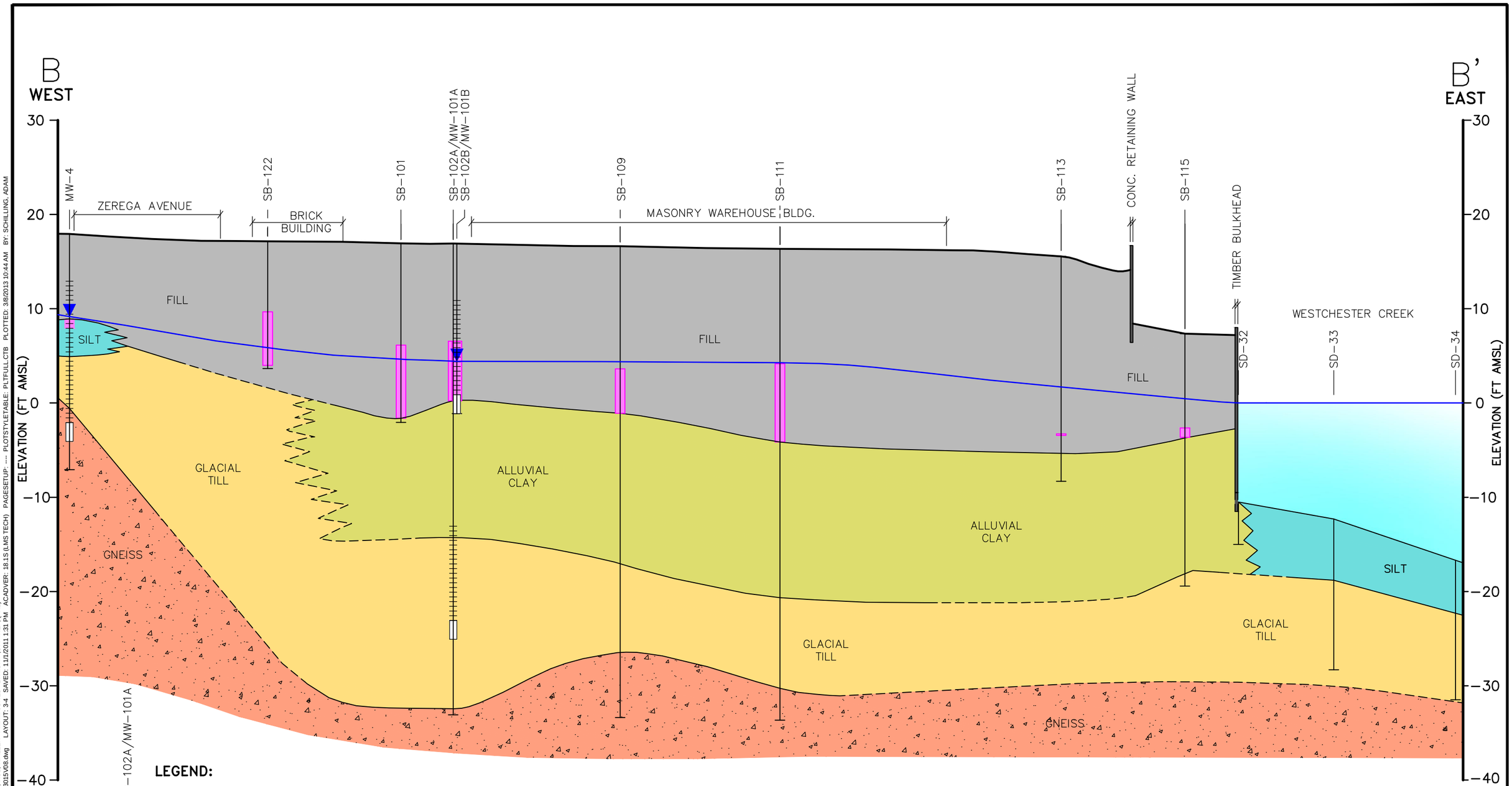
0 40' 80'
HORIZONTAL SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

GEOLOGIC CROSS SECTION A-A'

ARCADIS

FIGURE
3-3



LEGEND:

- WELL OR BORING ID (SB-102A/MW-101A)
- GROUND SURFACE
- GROUNDWATER
- LITHOLOGIC CONTACT (DASHED WHERE INFERRED)
- SCREEN
- SUMP
- BOTTOM OF BORING
- UNDIFFERENTIATED FILL
- SILT
- ALLUVIAL CLAY
- GLACIAL TILL (SAND AND SILT)
- GNEISS (HARTLAND FORMATION)
- OBSERVED NAPL

NOTES:

1. WATER ELEVATION IN WESTCHESTER CREEK IS APPROXIMATE.
2. GROUNDWATER ELEVATIONS AS MEASURED ON 4/27/2009.
3. ALL ELEVATIONS REFER TO NAVD 1988 VERTICAL DATUM.

0 10' 20'
VERTICAL SCALE

0 40' 80'
HORIZONTAL SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

GEOLOGIC CROSS SECTION B-B'

ARCADIS

FIGURE
3-4

CITY:SYRACUSE, N.Y. GROUP:ENVCAD-141 DB: CM, RCB, R.ALLEN PM: M. JONES LYR:ON=*;OFF=REF, (FRZ)
C:\User\aschilling\Desktop\B0043015\000200022\DWG\43015V08.dwg LAYOUT: 3-4 SAVED: 11/1/2011 1:31 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/8/2013 10:44 AM BY: SCHILLING, ADAM
XREFS:
43015X00
IMAGES:

C
WEST

C'
EAST

ZEREGA AVENUE
SB-120
SB-104/MW-109
SB-107
SB-108
SB-110/MW-103
SB-114
BRICK BLDG.
CONC. RETAINING WALL
SB-116
TIMBER BULKHEAD
SD-29 (17' SW OF LINE)
SD-30
SD-31
WESTCHESTER CREEK

ELEVATION (FT AMSL)

30
20
10
0
-10
-20
-30
-40

FILL
ALLUVIAL CLAY
GLACIAL TILL
GNEISS
SILT

SB-104/MW-109

LEGEND:

- WELL OR BORING ID
- GROUND SURFACE
- GROUNDWATER
- LITHOLOGIC CONTACT (DASHED WHERE INFERRED)
- SCREEN
- SUMP
- BOTTOM OF BORING
- UNDIFFERENTIATED FILL
- SILT
- ALLUVIAL CLAY
- GLACIAL TILL (SAND AND SILT)
- GNEISS (HARTLAND FORMATION)
- OBSERVED NAPL

NOTES:

1. WATER ELEVATION IN WESTCHESTER CREEK IS APPROXIMATE.
2. GROUNDWATER ELEVATIONS AS MEASURED ON 4/27/2009.
3. ALL ELEVATIONS REFER TO NAVD 1988 VERTICAL DATUM.

0 10' 20'
VERTICAL SCALE

0 40' 80'
HORIZONTAL SCALE

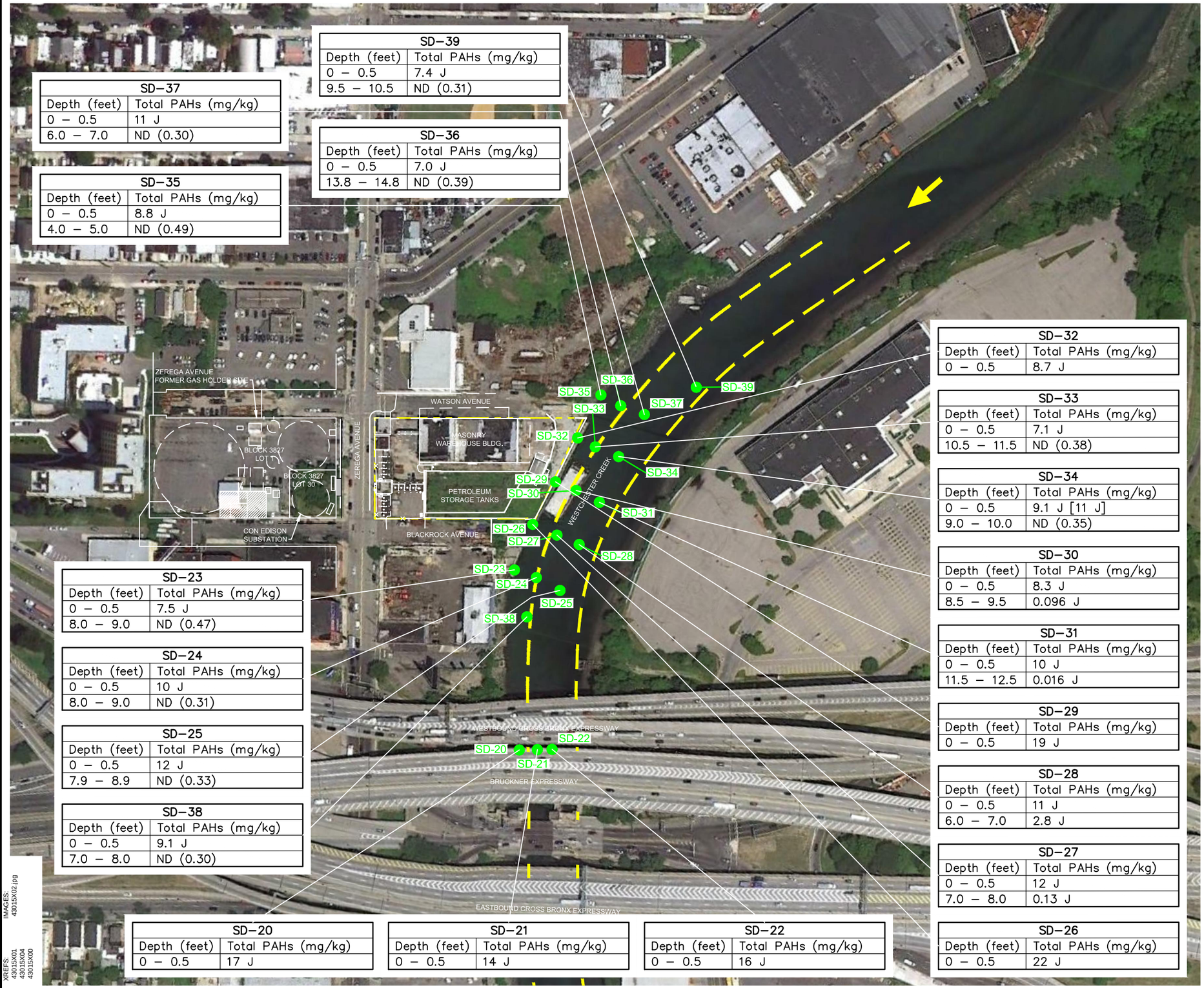
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

GEOLOGIC CROSS SECTION C-C'

ARCADIS

FIGURE
3-5

CITY:SYRACUSE, N.Y. GROUP:ENVCAD-141 DB: CM, RCB, R.ALLEN PM: M. JONES LYR:ON=*;OFF=REF, (FRZ)
C:\Users\laschilling\Desktop\B0043015\0002\0002\DWG\43015V10.dwg LAYOUT: 3-5 SAVED: 3/8/2013 10:46 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
XREFS: IMAGEBASE IMAGES PROJECTNAME: ----
43015X00



SD-37	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	11 J
6.0 – 7.0	ND (0.30)

SD-39	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	7.4 J
9.5 – 10.5	ND (0.31)

SD-36	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	7.0 J
13.8 – 14.8	ND (0.39)

SD-35	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	8.8 J
4.0 – 5.0	ND (0.49)

SD-32	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	8.7 J

SD-33	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	7.1 J
10.5 – 11.5	ND (0.38)

SD-34	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	9.1 J [11 J]
9.0 – 10.0	ND (0.35)

SD-30	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	8.3 J
8.5 – 9.5	0.096 J

SD-31	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	10 J
11.5 – 12.5	0.016 J

SD-29	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	19 J

SD-28	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	11 J
6.0 – 7.0	2.8 J

SD-27	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	12 J
7.0 – 8.0	0.13 J

SD-26	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	22 J

SD-23	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	7.5 J
8.0 – 9.0	ND (0.47)

SD-24	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	10 J
8.0 – 9.0	ND (0.31)

SD-25	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	12 J
7.9 – 8.9	ND (0.33)

SD-38	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	9.1 J
7.0 – 8.0	ND (0.30)

SD-20	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	17 J

SD-21	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	14 J

SD-22	
Depth (feet)	Total PAHs (mg/kg)
0 – 0.5	16 J

LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PAHs IS THE SUM OF THE 16 PRIORITY POLLUTANT PAHs AS DETERMINED BY USEPA SW–846 METHOD 8270.
6. J – INDICATES AN ESTIMATED VALUE
7. ND – COMPOUND NOT DETECTED. VALUE IN PARENTHESES IS THE COMPOUND QUANTITATION LIMIT.

0 200' 400'
GRAPHIC SCALE

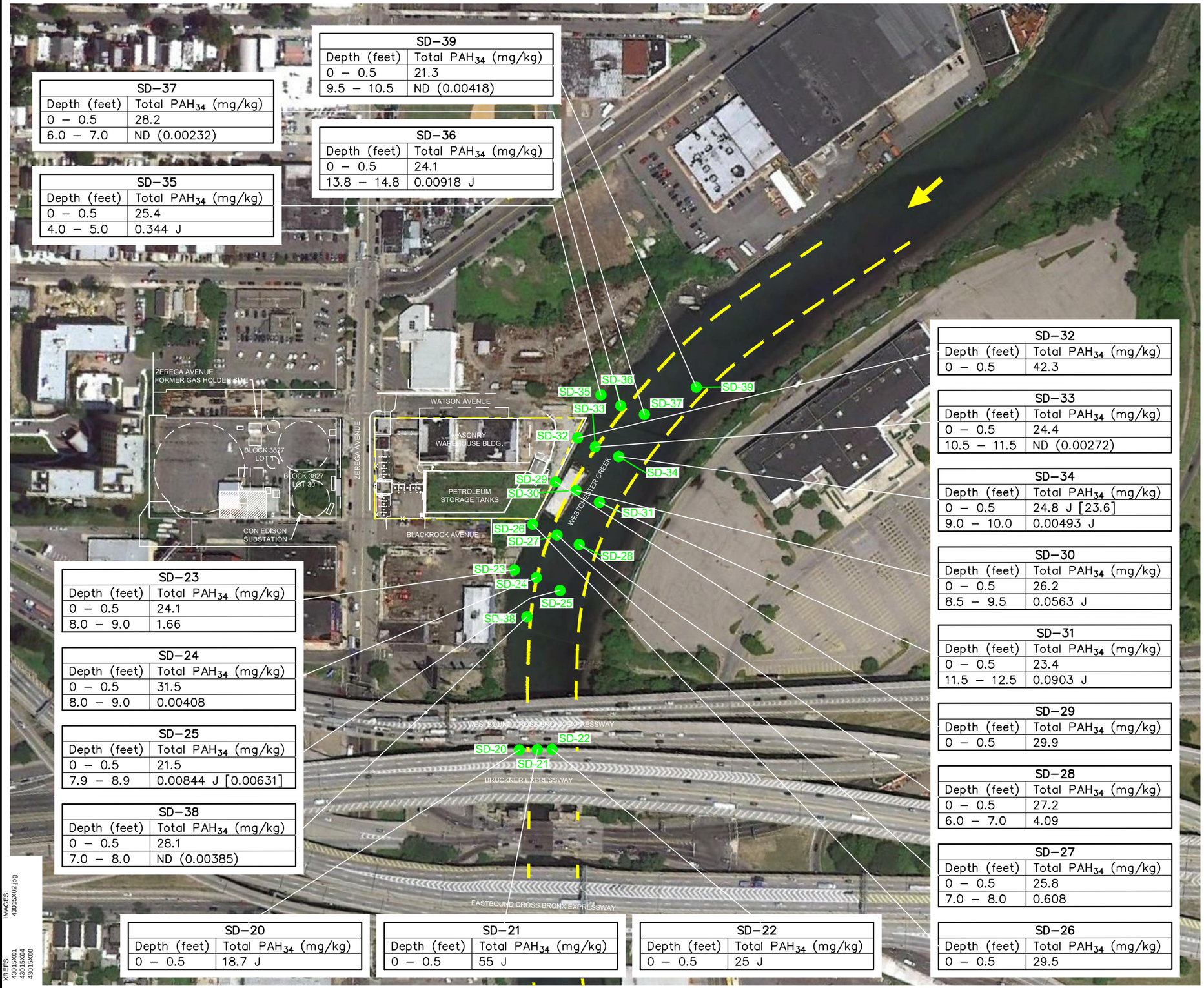
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE ANALYTICAL RESULTS - TOTAL PAHs

ARCADIS

FIGURE
3-6

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0043015000\01000004\DWG\SCR43015C05.dwg LAYOUT: 3-6 SAVED: 11/1/2011 2:49 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:54 PM BY: SCHILLING, ADAM
XREFS: 43015X01 43015X04 43015X00 IMAGES: 43015X02.jpg



SD–39	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	21.3
9.5 – 10.5	ND (0.00418)

SD–37	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	28.2
6.0 – 7.0	ND (0.00232)

SD–36	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	24.1
13.8 – 14.8	0.00918 J

SD–35	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	25.4
4.0 – 5.0	0.344 J

SD–32	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	42.3

SD–33	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	24.4
10.5 – 11.5	ND (0.00272)

SD–34	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	24.8 J [23.6]
9.0 – 10.0	0.00493 J

SD–30	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	26.2
8.5 – 9.5	0.0563 J

SD–31	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	23.4
11.5 – 12.5	0.0903 J

SD–29	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	29.9

SD–28	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	27.2
6.0 – 7.0	4.09

SD–27	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	25.8
7.0 – 8.0	0.608

SD–26	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	29.5

SD–24	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	31.5
8.0 – 9.0	0.00408

SD–25	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	21.5
7.9 – 8.9	0.00844 J [0.00631]

SD–38	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	28.1
7.0 – 8.0	ND (0.00385)

SD–20	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	18.7 J

SD–21	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	55 J

SD–22	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	25 J

LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PAH_{34} IS THE SUM OF THE 34 ALKALYATED PAHS AS DETERMINED BY USEPA METHOD 8270C.
6. J – INDICATES AN ESTIMATED VALUE
7. ND – COMPOUND NOT DETECTED. VALUE IN PARENTHESES IS THE COMPOUND QUANTITATION LIMIT.

0 200' 400'
GRAPHIC SCALE

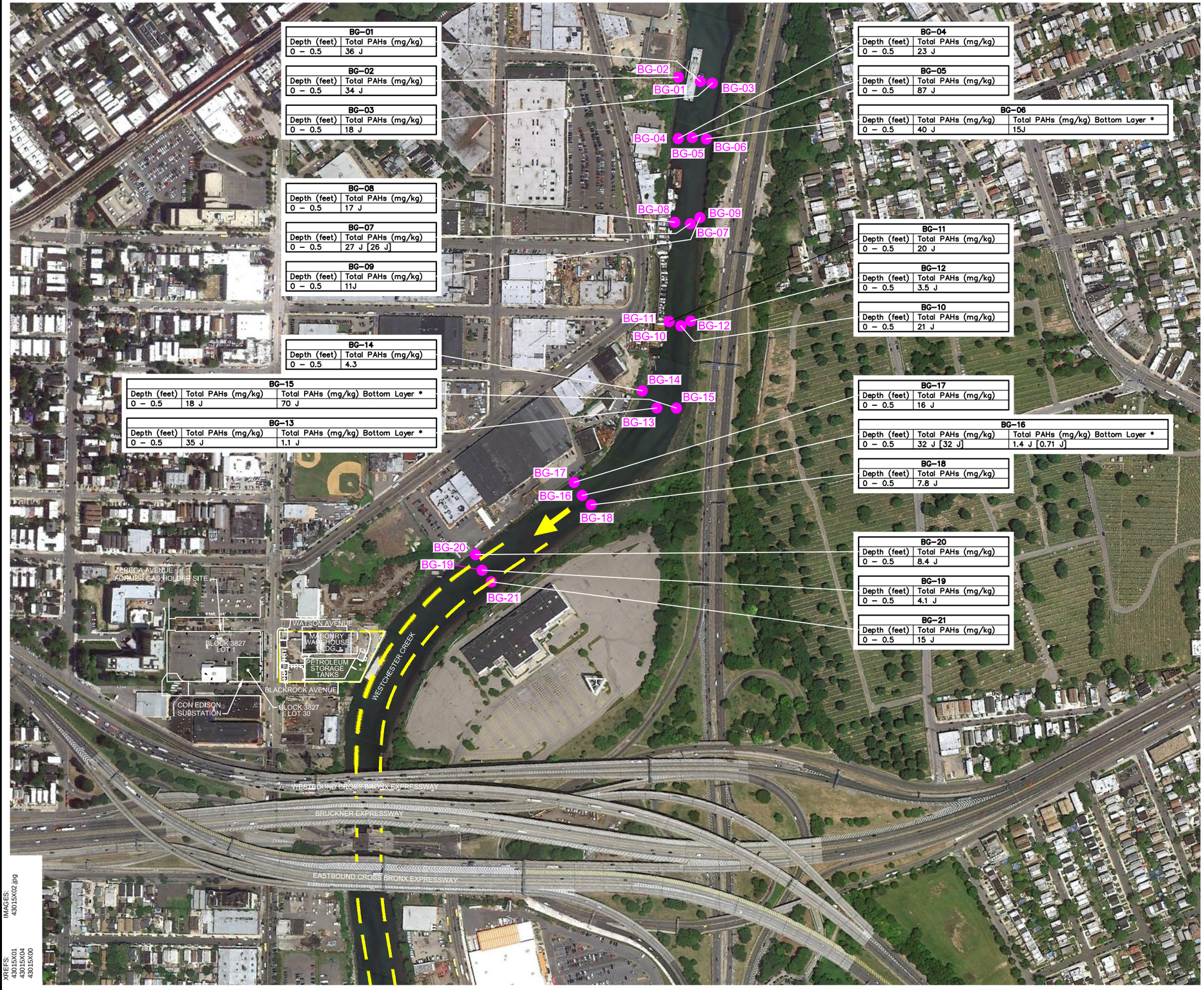
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE ANALYTICAL RESULTS - TOTAL PAH_{34}

ARCADIS

FIGURE
3-7

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(On)ON=*;OFF=*REF* PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/8/2013 10:03 AM BY: SCHILLING, ADAM
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XREFS: 43015X01 43015X04 43015X00 IMAGES: 43015X02.jpg



LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKBROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 9 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PAHs IS THE SUM OF THE 16 PRIORITY POLLUTANT PAHs AS DETERMINED BY USEPA SW–846 METHOD 8270. THE INDIVIDUAL ANALYTE RESULTS ARE PRESENTED IN TABLE 3–3.
6. J – INDICATES AN ESTIMATED VALUE
7. * – INDICATES THAT THE SAMPLE EXTRACT WAS BIPHASIC UPON CONCENTRATION. SAMPLE RESULTS FROM BOTH THE TOP AND BOTTOM LAYERS ARE PROVIDED FOR THIS SAMPLE

0 400' 800'

GRAPHIC SCALE

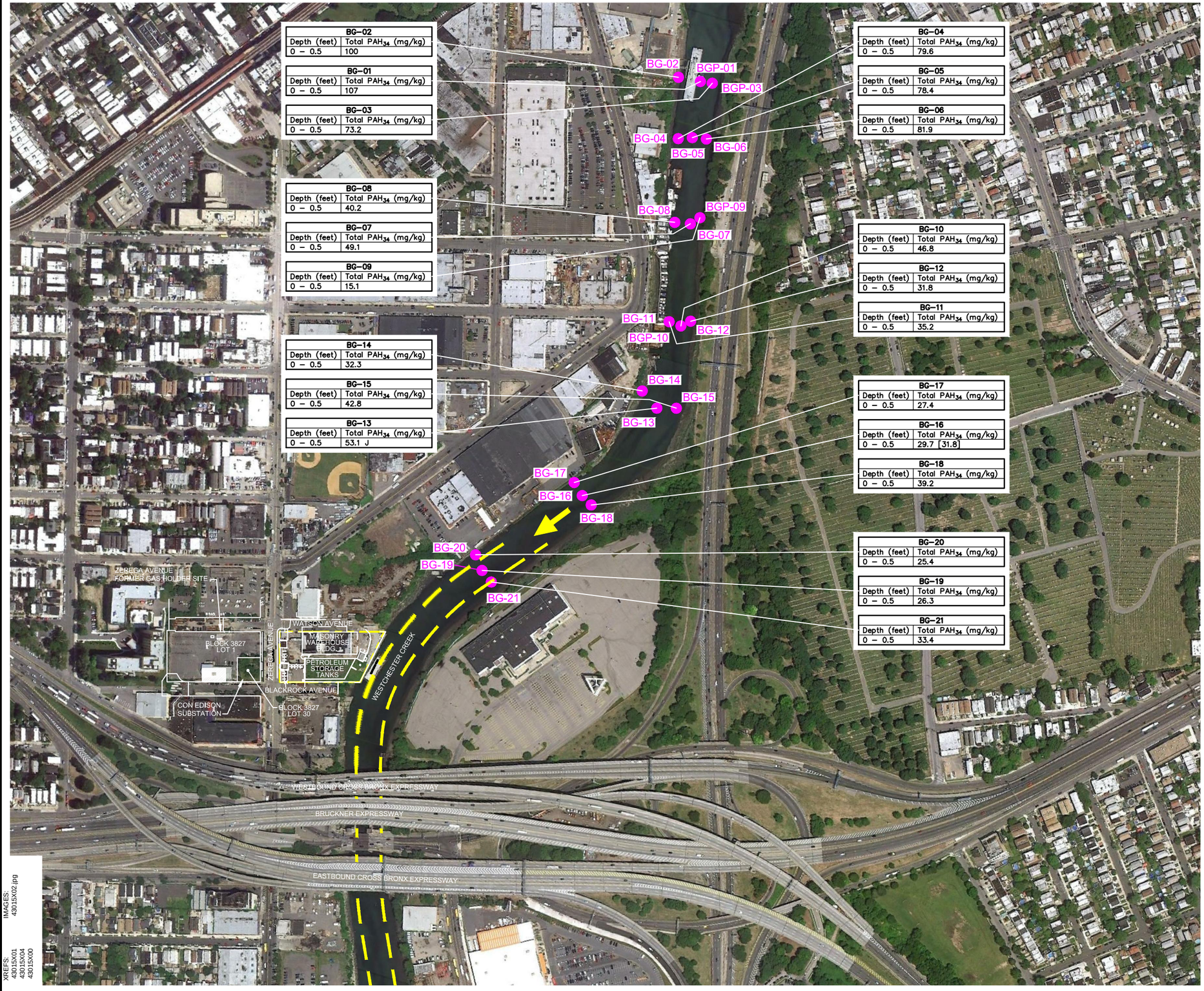
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE ANALYTICAL RESULTS - TOTAL PAHs

ARCADIS

FIGURE
3-8

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\043015\000\10000\041DWG\SCR\43015C01.dwg LAYOUT: 3-8 SAVED: 11/1/2011 2:53 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:53 PM BY: SCHILLING, ADAM
XREFS: IMAGES:
43015X01 43015X02.jpg
43015X04
43015X00



BG–02	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	100

BG–01	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	107

BG–03	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	73.2

BG–08	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	40.2

BG–07	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	49.1

BG–09	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	15.1

BG–14	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	32.3

BG–15	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	42.8

BG–13	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	53.1 J

BG–04	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	79.6

BG–05	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	78.4

BG–06	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	81.9

BG–10	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	46.8

BG–12	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	31.8

BG–11	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	35.2

BG–17	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	27.4

BG–16	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	29.7 [31.8]

BG–18	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	39.2

BG–20	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	25.4

BG–19	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	26.3

BG–21	
Depth (feet)	Total PAH_{34} (mg/kg)
0 – 0.5	33.4

LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKGROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PAH_{34} IS THE SUM OF ALKALYATED PAHs AS DETERMINED BY USEPA METHOD 8270C.
6. J – INDICATES AN ESTIMATED VALUE

0 400' 800'

GRAPHIC SCALE

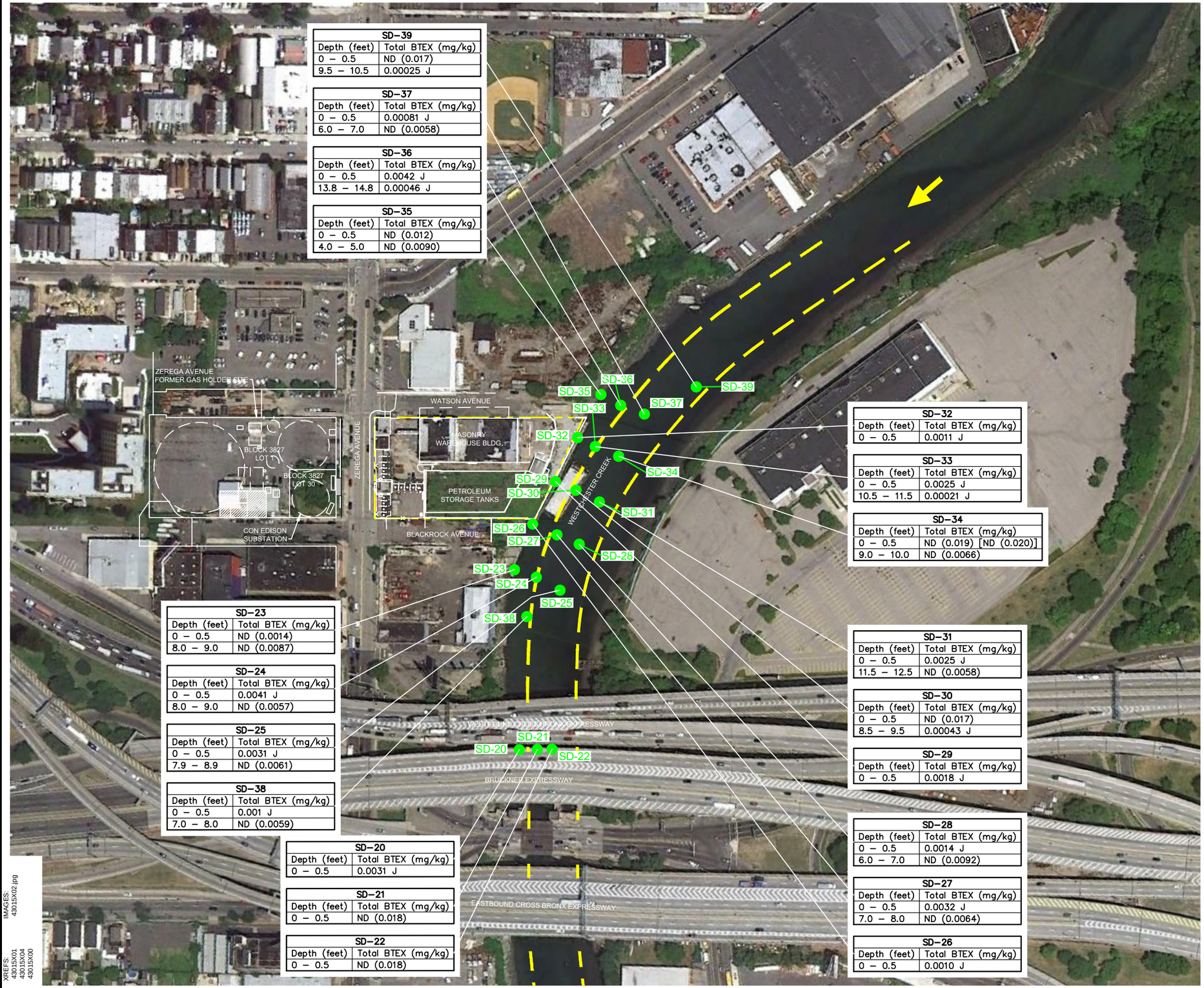
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE ANALYTICAL RESULTS - TOTAL PAH_{34}

ARCADIS

FIGURE
3-9

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES:
43015X01 43015X02.jpg
43015X04
43015X00



SD-39	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.017)
9.5 – 10.5	0.00025 J

SD-37	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.00081 J
6.0 – 7.0	ND (0.0058)

SD-36	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0042 J
13.8 – 14.8	0.00046 J

SD-35	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.012)
4.0 – 5.0	ND (0.0090)

SD-32	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0011 J

SD-33	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0025 J
10.5 – 11.5	0.00021 J

SD-34	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.019) [ND (0.020)]
9.0 – 10.0	ND (0.0066)

SD-23	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.0014)
8.0 – 9.0	ND (0.0087)

SD-24	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0041 J
8.0 – 9.0	ND (0.0057)

SD-25	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0031 J
7.9 – 8.9	ND (0.0061)

SD-38	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.001 J
7.0 – 8.0	ND (0.0059)

SD-20	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0031 J

SD-21	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.018)

SD-22	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.018)

SD-31	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0025 J
11.5 – 12.5	ND (0.0058)

SD-30	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	ND (0.017)
8.5 – 9.5	0.00043 J

SD-29	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0018 J

SD-28	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0014 J
6.0 – 7.0	ND (0.0092)

SD-27	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0032 J
7.0 – 8.0	ND (0.0064)

SD-26	
Depth (feet)	Total BTEX (mg/kg)
0 – 0.5	0.0010 J

LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY-GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL BTEX IS THE SUM OF BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES.
6. J – INDICATES AN ESTIMATED VALUE
7. ND – COMPOUND NOT DETECTED. VALUE IN PARENTHESES IS THE COMPOUND QUANTITATION LIMIT.

0 200' 400'

GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE ANALYTICAL RESULTS - TOTAL BTEX

ARCADIS

FIGURE
3-10

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\043015\000\100004\DWG\SCR\43015C12.dwg LAYOUT: 3-10 SAVED: 11/1/2011 2:58 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:56 PM BY: SCHILLING, ADAM
XREFS:
43015X01
43015X04
43015X00
IMAGES:
43015X02.jpg



LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKGROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL BTEX IS THE SUM OF BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES.
6. J – INDICATES AN ESTIMATED VALUE
7. ND – COMPOUND NOT DETECTED. VALUE IN PARENTHESES IS THE COMPOUND QUANTITATION LIMIT.

0 400' 800'

GRAPHIC SCALE

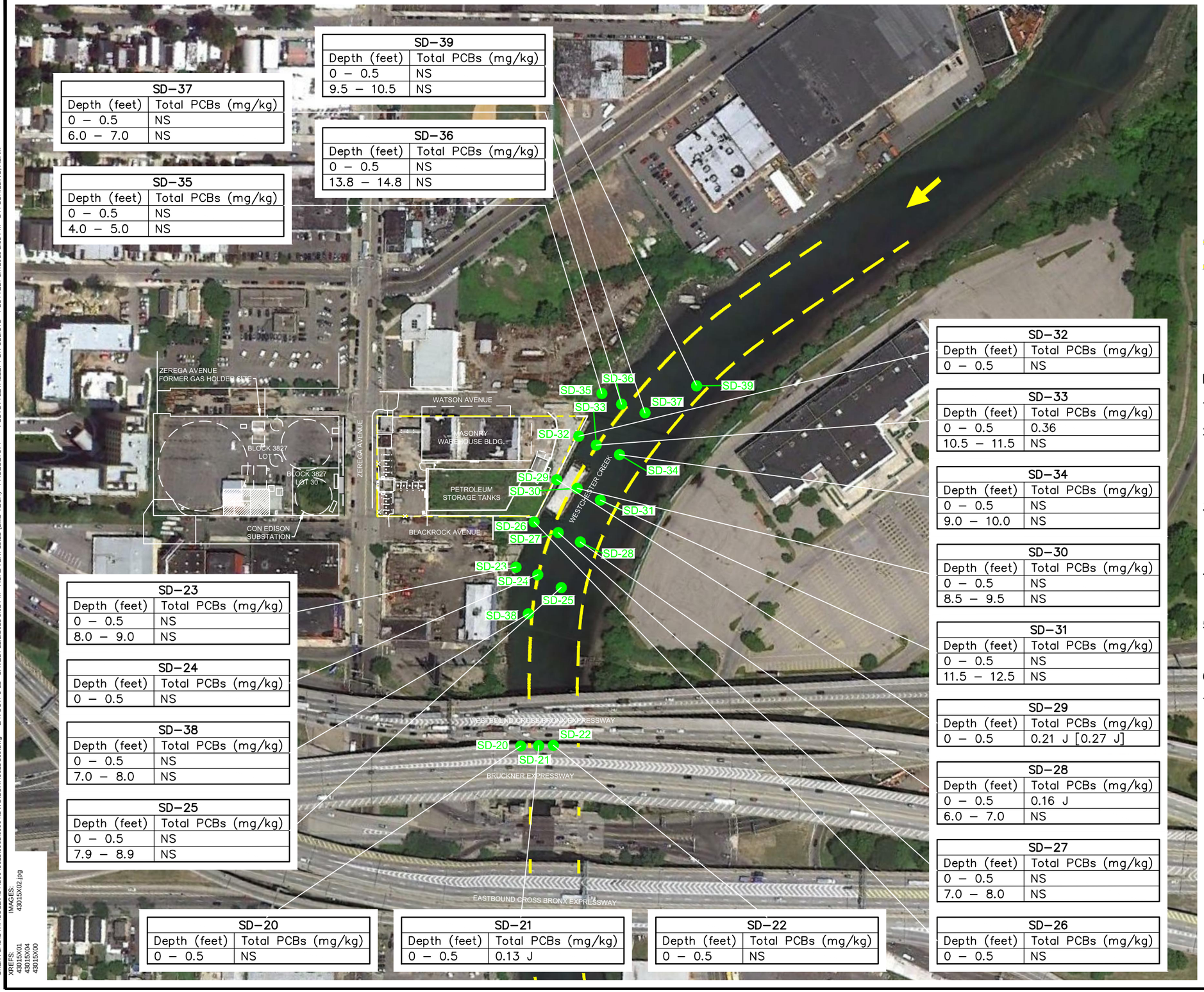
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE ANALYTICAL RESULTS - TOTAL BTEX

ARCADIS

FIGURE
3-11

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES:
43015X01 43015X02.jpg
43015X04
43015X00



SD-39	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
9.5 – 10.5	NS

SD-37	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
6.0 – 7.0	NS

SD-36	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
13.8 – 14.8	NS

SD-35	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
4.0 – 5.0	NS

SD-32	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS

SD-33	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	0.36
10.5 – 11.5	NS

SD-34	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
9.0 – 10.0	NS

SD-30	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
8.5 – 9.5	NS

SD-31	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
11.5 – 12.5	NS

SD-29	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	0.21 J [0.27 J]

SD-28	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	0.16 J
6.0 – 7.0	NS

SD-27	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
7.0 – 8.0	NS

SD-26	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS

SD-23	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
8.0 – 9.0	NS

SD-24	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS

SD-38	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
7.0 – 8.0	NS

SD-25	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS
7.9 – 8.9	NS

SD-20	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS

SD-21	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	0.13 J

SD-22	
Depth (feet)	Total PCBs (mg/kg)
0 – 0.5	NS

LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PCBS IS THE SUM OF THE INDIVIDUAL AROCLORS AS DETERMINED BY USEPA METHOD 8082.
6. J – INDICATES AN ESTIMATED VALUE
7. NS – NOT SAMPLED FOR THIS COMPOUND

0 200' 400'
GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE ANALYTICAL RESULTS - TOTAL PCBs

ARCADIS

FIGURE
3-12

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS:
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IMAGES:
43015X02.jpg



LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKBROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. TOTAL PCBS IS THE SUM OF THE INDIVIDUAL AROCLORS AS DETERMINED BY USEPA METHOD 8082.
6. J – INDICATES AN ESTIMATED VALUE
7. NS – NOT SAMPLED FOR THIS COMPOUND

0 400' 800'
GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE ANALYTICAL RESULTS - TOTAL PCBs

ARCADIS

FIGURE
3-13

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:54 PM BY: SCHILLING, ADAM



SD-26	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	12.6 J
Barium	120
Cadmium	1.00 J
Chromium	92.4
Lead	191
Mercury	1.10
Selenium	36.0 U
Silver	3.60 J
Aluminum	19,500
Antimony	15.9 U
Beryllium	0.760 J
Calcium	7,290
Cobalt	11.2
Copper	192
Iron	38,800
Magnesium	12,500
Manganese	498
Nickel	39.0
Potassium	5,550
Sodium	25,000
Thallium	14.4 U
Vanadium	50.8
Zinc	359
Cyanide	1.97 U

SD-29	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	11.6 J
Barium	116
Cadmium	1.20 J
Chromium	93.1
Lead	193
Mercury	0.880
Selenium	35.3 U
Silver	3.70 J
Aluminum	20,000
Antimony	15.8 U
Beryllium	0.790 J
Calcium	7,250
Cobalt	11.9
Copper	192
Iron	38,400
Magnesium	12,400
Manganese	554
Nickel	39.5
Potassium	5,830
Sodium	22,300
Thallium	14.3 U
Vanadium	53.4
Zinc	349
Cyanide	1.96 U

SD-30		
Depth (feet)	0 – 0.5	8.5 – 9.5
Analyte	Result (mg/kg)	
Arsenic	17.9	8.40 J
Barium	130	48.3
Cadmium	1.30 J	2.00 U
Chromium	101	34.4
Lead	208	9.40
Mercury	1.10	0.0160 J
Selenium	30.7 U	15.3 U
Silver	3.90 J	0.320 J
Aluminum	21,300	13,800
Antimony	13.5 U	6.70 U
Beryllium	0.850 J	0.520 J
Calcium	7,760	2,590
Cobalt	13.1	10.1
Copper	217	15.3
Iron	37,700	27,900
Magnesium	12,500	7,790
Manganese	543	819
Nickel	41.4	22.8
Potassium	5,730	3,960
Sodium	20,400	2,900
Thallium	12.3 U	6.10 U
Vanadium	52.1	38.0
Zinc	384	58.1
Cyanide	1.72 U	0.391 J

SD-32	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	13.7 J
Barium	116
Cadmium	4.70 U
Chromium	93.0
Lead	176
Mercury	0.750
Selenium	35.1 U
Silver	3.50 J
Aluminum	19,000
Antimony	15.5 U
Beryllium	0.870 J
Calcium	6,810
Cobalt	12.2
Copper	190
Iron	41,500
Magnesium	12,500
Manganese	551
Nickel	37.5
Potassium	5,480
Sodium	22,800
Thallium	14.1 U
Vanadium	52.1
Zinc	340
Cyanide	1.91 U

SD-35		
Depth (feet)	0 – 0.5	4.0 – 5.0
Analyte	Result (mg/kg)	
Arsenic	6.50 J	12.4
Barium	80.6	39.7
Cadmium	0.710 J	2.20 U
Chromium	42.6	36.8
Lead	134	14.0
Mercury	0.410	0.0150 J
Selenium	22.9 U	16.5 U
Silver	1.10 J	2.20 U
Aluminum	12,000	17,200
Antimony	10.1 U	7.20 U
Beryllium	0.710 J	0.770 J
Calcium	32,500	3,000
Cobalt	9.40	11.2
Copper	176	14.7
Iron	22,200	32,500
Magnesium	12,000	8,250
Manganese	339	817
Nickel	39.5	27.5
Potassium	2,850	4,090
Sodium	14,300	4,780
Thallium	9.20 U	6.60 U
Vanadium	47.8	41.9
Zinc	561	75.3
Cyanide	1.24 U	0.905 U

SD-33		
Depth (feet)	0 – 0.5	10.5 – 11.5
Analyte	Result (mg/kg)	
Arsenic	10.2 J	7.20 U
Barium	111	132
Cadmium	4.40 U	1.70 U
Chromium	90.1	51.6
Lead	174	8.30
Mercury	1.00	0.0650 U
Selenium	32.8 U	12.8 U
Silver	3.40 J	0.120 J
Aluminum	19,100	22,300
Antimony	14.4 U	5.60 U
Beryllium	0.770 J	0.500 J
Calcium	6,590	1,210
Cobalt	11.1	17.8
Copper	182	42.0
Iron	37,500	33,000
Magnesium	12,000	7,890
Manganese	565	463
Nickel	36.7	44.1
Potassium	5,520	6,850
Sodium	22,400	989
Thallium	13.1 U	5.10 U
Vanadium	48.9	54.5
Zinc	311	65.0
Cyanide	1.77 U	0.712 U

SD-27		
Depth (feet)	0 – 0.5	7.0 – 8.0
Analyte	Result (mg/kg)	
Arsenic	8.30 J	6.70 U
Barium	112	48.7
Cadmium	4.40 U	1.60 U
Chromium	88.6	43.0
Lead	171	12.5
Mercury	0.960	0.0650
Selenium	32.7 U	12.0 U
Silver	3.60 J	0.240 J
Aluminum	18,000	15,200
Antimony	14.4 U	5.30 U
Beryllium	0.760 J	0.210 J
Calcium	6,890	2,240
Cobalt	11.5	10.0
Copper	187	21.0
Iron	38,300	33,200
Magnesium	11,900	4,630
Manganese	531	188
Nickel	36.0	19.0
Potassium	5,140	1,680
Sodium	22,200	379
Thallium	13.1 U	4.80 U
Vanadium	44.0	40.5
Zinc	332	44.4
Cyanide	1.80 U	0.638 U

SD-39		
Depth (feet)	0 – 0.5	9.5 – 10.5
Analyte	Result (mg/kg)	
Arsenic	7.10 J	6.20 U
Barium	130 J	27.6 J
Cadmium	1.50 J	1.50 U
Chromium	90.7	10.5
Lead	228 J	1.10 J
Mercury	1.10 J	0.0570 UJ
Selenium	31.1 U	11.0 U
Silver	4.70	0.0990 J
Aluminum	18,500	4,580
Antimony	13.7 UJ	4.90 UJ
Beryllium	0.780 J	1.50 U
Calcium	7,180 J	871 J
Cobalt	11.1	3.80
Copper	214	12.1
Iron	34,800	8,760
Magnesium	11,700	2,220
Manganese	460	70.1
Nickel	40.0	9.70
Potassium	5,220	1,630
Sodium	21,400	534
Thallium	12.4 U	4.40 U
Vanadium	48.8 J	13.4 J
Zinc	419 J	17.2 J
Cyanide	1.73 UJ	0.600 UJ

SD-34		
Depth (feet)	0 – 0.5	9.0 – 10.0
Analyte	Result (mg/kg)	
Arsenic	14.9 J [12.6 J]	6.80 U
Barium	112 [114]	45.2
Cadmium	1.20 J [4.80 U]	1.60 U
Chromium	90.3 [93.8]	19.0
Lead	175 [174]	2.50 J
Mercury	0.900 [0.980]	0.0600 U
Selenium	35.4 U [36.2 U]	12.1 U
Silver	3.50 J [3.60 J]	1.60 U
Aluminum	18,800 [19,300]	9,210
Antimony	15.6 U [15.9 U]	5.30 U
Beryllium	0.740 J [0.820 J]	0.0980 J
Calcium	6,620 [6,900]	1,170
Cobalt	12.0 [12.5]	5.60
Copper	188 [192]	17.7
Iron	39,000 [37,400]	12,100
Magnesium	12,000 [12,500]	3,400
Manganese	516 [532]	169
Nickel	37.3 [39.0]	15.0
Potassium	5,380 [5,430]	2,640
Sodium	22,600 [23,900]	935
Thallium	14.2 U [14.5 U]	4.80 U
Vanadium	47.1 [47.3]	23.7
Zinc	341 [349]	28.3
Cyanide	1.90 U [2.03 U]	0.659 U

SD-36		
Depth (feet)	0 – 0.5	13.8 – 14.8
Analyte	Result (mg/kg)	
Arsenic	16.6 J	7.20 U
Barium	128	200
Cadmium	4.70 U	1.70 U
Chromium	101	51.4
Lead	195	2.50 J
Mercury	1.00	0.0720 U
Selenium	34.9 U	12.9 U
Silver	3.80 J	0.150 J
Aluminum	21,600	17,400
Antimony	15.4 U	5.70 U
Beryllium	0.860 J	1.70 U
Calcium	7,490	1,470
Cobalt	12.6	11.8
Copper	208	27.1
Iron	41,500	27,300
Magnesium	13,300	8,750
Manganese	602	285
Nickel	41.0	38.2
Potassium	6,110	10,700
Sodium	23,200	321
Thallium	14.0 U	5.20 U
Vanadium	54.3	46.8
Zinc	359	67.7
Cyanide	1.87 U	0.721 U

SD-37		
Depth (feet)	0 – 0.5	6.0 – 7.0
Analyte	Result (mg/kg)	
Arsenic	12.3 J	6.10 U
Barium	113	22.9
Cadmium	1.20 J	1.40 U
Chromium	92.0	10.8
Lead	182	1.50 J
Mercury	1.00	0.0530 U
Selenium	33.3 U	10.8 U
Silver	3.20 J	1.40 U
Aluminum	19,800	4,880
Antimony	14.7 U	4.80 U
Beryllium	0.770 J	1.40 U
Calcium	6,530	1,080
Cobalt	12.6	4.20
Copper	187	12.4
Iron	34,100	6,720
Magnesium	10,500	2,090
Manganese	549	77.7
Nickel	38.3	9.50
Potassium	5,150	1,690
Sodium	8,100	245
Thallium	13.3 U	4.30 U
Vanadium	47.8	14.1
Zinc	344	17.4
Cyanide	1.87 U	0.201 J

SD-31		
Depth (feet)	0 – 0.5	11.5 – 12.5
Analyte	Result (mg/kg)	
Arsenic	12.0 J	5.80 U
Barium	105	29.3
Cadmium	4.50 U	1.40 U
Chromium	87.1	17.7
Lead	165	3.10 J
Mercury	1.00	0.00560 J
Selenium	33.9 U	10.4 U
Silver	3.00 J	1.40 U
Aluminum	18,500	4,470
Antimony	14.9 U	4.60 U
Beryllium	0.730 J	0.0740 J
Calcium	6,220	709
Cobalt	11.4	2.40
Copper	174	4.20
Iron	31,800	4,730
Magnesium	11,300	1,600
Manganese	546	56.8
Nickel	34.9	7.40
Potassium	5,350	660
Sodium	22,100	681
Thallium	13.6 U	4.20 U
Vanadium	43.7	10.4
Zinc	299	16.3
Cyanide	1.83 U	0.579 U

SD-23		
Depth (feet)	0 – 0.5	8.0 – 9.0
Analyte	Result (mg/kg)	
Arsenic	10.5 J	12.9
Barium	115	60.5
Cadmium	1.20 J	2.20 U
Chromium	87.2	38.1
Lead	197	12.5
Mercury	1.00	0.0150 J
Selenium	35.3 U	16.2 U
Silver	3.40 J	2.20 U
Aluminum	18,600	16,600
Antimony	15.5 U	7.10 U
Beryllium	0.670 J	0.670 J
Calcium	6,610	4,570
Cobalt	11.5	11.3
Copper	183	16.4
Iron	35,400	31,800
Magnesium	11,700	8,470
Manganese	489	796
Nickel	35.7	25.9
Potassium	5,420	4,410
Sodium	24,000	1,560
Thallium	14.1 U	6.50 U
Vanadium	46.8	46.5
Zinc	325	68.2
Cyanide	1.93 U	0.871 U

SD-24		
Depth (feet)	0 – 0.5	8.0 – 9.0
Analyte	Result (mg/kg)	
Arsenic	11.0 J	5.90 U
Barium	107	55.3
Cadmium	1.10 J	1.40 U
Chromium	82.9	22.9
Lead	163	2.90 J
Mercury	1.00	0.0550 U
Selenium	34.5 U	10.8 U
Silver	3.20 J	1.40 U
Aluminum	17,300	7,410
Antimony	15.2 U	4.70 U
Beryllium	0.750 J	1.40 U
Calcium	7,090	1,000
Cobalt	10.9	10.6
Copper	178	15.1
Iron	35,900	9,880
Magnesium	11,900	2,410
Manganese	534	98.5
Nickel	35.7	17.0
Potassium	5,130	2,030
Sodium	24,100	110 J
Thallium	13.8 U	4.20 U
Vanadium	47.0	18.2
Zinc	326	24.4
Cyanide	1.90 U	0.574 U

SD-38		
Depth (feet)	0 – 0.5	7.0 – 8.0
Analyte	Result (mg/kg)	
Arsenic	11.1 J	2.30 J
Barium	122 J	81.9 J
Cadmium	1.30 J	1.40 U
Chromium	101	25.6
Lead	199 J	4.10 J
Mercury	1.30 J	0.0530 UJ
Selenium	32.0 U	10.6 U
Silver	4.40	0.140 J
Aluminum	21,300	12,900
Antimony	14.1 UJ	4.70 UJ
Beryllium	0.950 J	1.40 U
Calcium	6,850 J	1,390 J
Cobalt	12.9	7.10
Copper	214	18.1
Iron	42,400	18,800
Magnesium	13,000	4,780
Manganese	557	175
Nickel	41.9	22.7
Potassium	5,860	4,230
Sodium	22,400	346
Thallium	12.8 U	4.20 U
Vanadium	54.0 J	30.4 J
Zinc	388 J	37.3 J
Cyanide	1.77 UJ	0.588 UJ

SD-20	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	13.6 J
Barium	131
Cadmium	1.50 J
Chromium	95.1
Lead	309
Mercury	1.00
Selenium	32.4 U
Silver	3.50 J
Aluminum	18,200
Antimony	14.3 U
Beryllium	0.700 J
Calcium	8,730
Cobalt	12.0
Copper	225
Iron	36,200
Magnesium	11,800
Manganese	504
Nickel	40.2
Potassium	5,110
Sodium	17,800
Thallium	13.0 U
Vanadium	50.8
Zinc	439
Cyanide	1.81 U

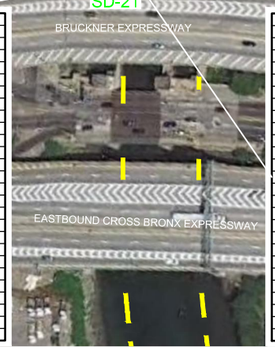
SD-21	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	12.4 J
Barium	111
Cadmium	1.10 J
Chromium	89.4
Lead	195
Mercury	1.20
Selenium	31.8 U
Silver	4.00 J
Aluminum	17,000
Antimony	14.0 U
Beryllium	0.680 J
Calcium	6,390
Cobalt	11.6
Copper	203
Iron	36,000
Magnesium	11,600
Manganese	452
Nickel	37.5
Potassium	4,940
Sodium	20,500
Thallium	12.7 U
Vanadium	48.2
Zinc	386
Cyanide	1.78 U

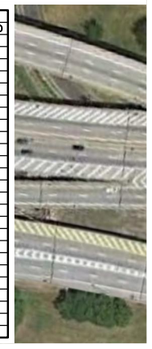
SD-22	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	14.3 J
Barium	115
Cadmium	1.60 J
Chromium	92.2
Lead	195
Mercury	1.10
Selenium	33.2 U
Silver	3.40 J
Aluminum	18,300
Antimony	14.6 U
Beryllium	0.650 J
Calcium	8,050
Cobalt	12.0
Copper	202
Iron	33,100
Magnesium	12,200
Manganese	493
Nickel	37.8
Potassium	5,220
Sodium	19,800
Thallium	13.3 U
Vanadium	50.4
Zinc	407
Cyanide	1.81 U

SD-25		
Depth (feet)	0 – 0.5	7.9 – 8.9
Analyte	Result (mg/kg)	
Arsenic	7.40 J	2.70 J
Barium	120	33.6
Cadmium	1.10 J	1.50 U
Chromium	96.7	22.0
Lead	185	3.90 J
Mercury	0.910	0.00710 J
Selenium	31.9 U	11.3 U
Silver	4.10 J	1.50 U
Aluminum	19,800	7,730
Antimony	14.1 U	5.00 U
Beryllium	0.890 J	0.220 J
Calcium	6,790	785
Cobalt	12.4	5.50
Copper	201	9.80
Iron	43,700	10,300
Magnesium	12,800	2,590
Manganese	519	125
Nickel	39.5	11.3
Potassium	5,350	1,290
Sodium	22,100	442
Thallium	12.8 U	4.50 U
Vanadium	51.3	19.6
Zinc	362	29.0
Cyanide	1.75 U	0.607 U

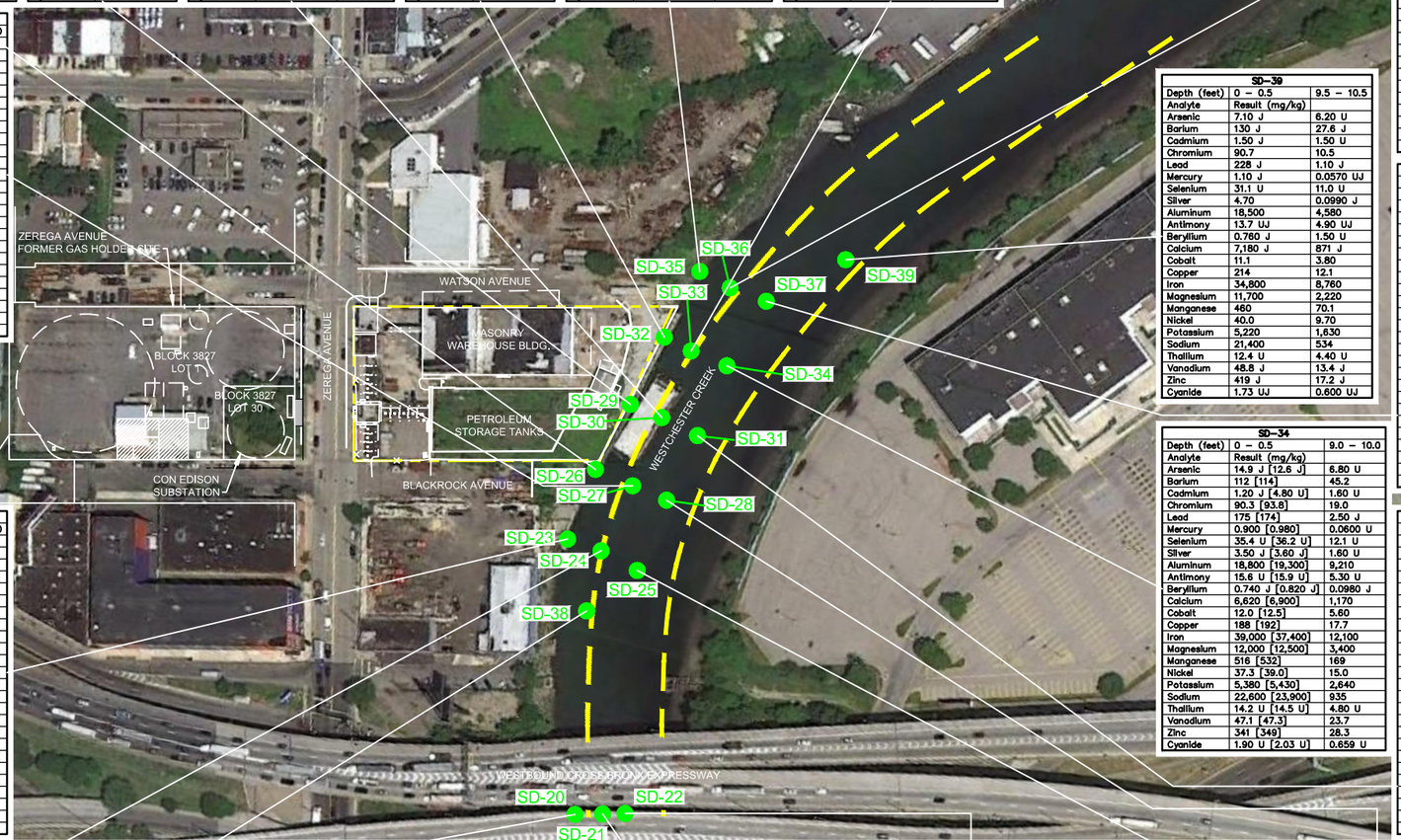
SD-28		
Depth (feet)	0 – 0.5	6.0 – 7.0
Analyte	Result (mg/kg)	
Arsenic	9.10 J	12.1
Barium	114	60.6
Cadmium	1.30 J	2.20 U
Chromium	92.7	42.5
Lead	177	20.7
Mercury	0.950	0.0360 J
Selenium	32.8 U	16.8 U
Silver	3.20 J	0.230 J
Aluminum	20,700	17,200
Antimony	14.4 U	7.40 U
Beryllium	0.810 J	0.630 J
Calcium	6,600	2,540
Cobalt	12.6	12.9
Copper	192	22.4
Iron	34,400	31,100
Magnesium	12,200	9,410
Manganese	506	991
Nickel	38.6	28.0
Potassium	5,680	4,960
Sodium	20,300	3,540
Thallium	13.1 U	6.70 U
Vanadium	48.5	47.4
Zinc	357	80.8
Cyanide	1.79 U	0.920 U











LEGEND:

- SD-25 ● SEDIMENT CORE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. SEDIMENT CORE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 4 AND 5, 2011 USING SURVEY–GRADE GLOBAL POSITIONING EQUIPMENT.
5. J – INDICATES AN ESTIMATED VALUE
6. U – INDICATES THE COMPOUND WAS NOT DETECTED. VALUE IS PARENTHESES IS THE COMPOUND QUANTITATION LIMIT

0 200' 400'

GRAPHIC SCALE

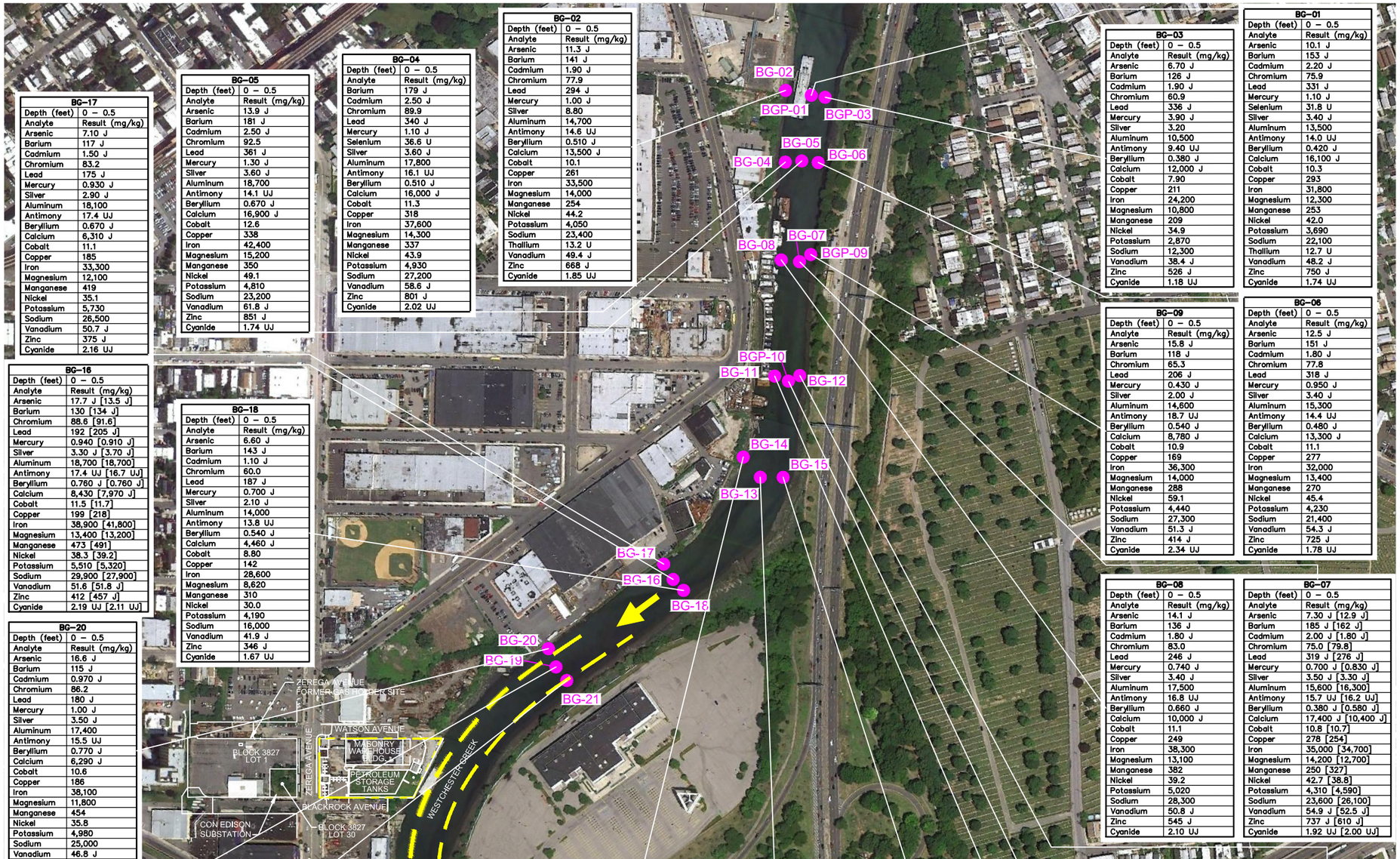
FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

SEDIMENT CORE ANALYTICAL RESULTS - TOTAL INORGANICS

ARCADIS

FIGURE
3-14

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0043015\0001\0000\04\DWG\SCR43015C08.dwg LAYOUT: 3-14 SAVED: 11/1/2011 3:06 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:55 PM BY: SCHILLING, ADAM
XREFS:
IMAGES:
43015X01
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43015X00
43015X02.jpg



BG-17	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	7.10 J
Barium	117 J
Cadmium	1.50 J
Chromium	83.2
Lead	175 J
Mercury	0.930 J
Silver	2.90 J
Aluminum	18,100
Antimony	17.4 UJ
Beryllium	0.670 J
Calcium	6,310 J
Cobalt	11.1
Copper	185
Iron	33,300
Magnesium	12,100
Manganese	419
Nickel	35.1
Potassium	5,730
Sodium	26,500
Vanadium	50.7 J
Zinc	375 J
Cyanide	2.16 UJ

BG-16	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	17.7 J [13.5 J]
Barium	130 [134 J]
Chromium	88.6 [91.6]
Lead	192 [205 J]
Mercury	0.940 [0.910 J]
Silver	3.30 J [3.70 J]
Aluminum	18,700 [18,700]
Antimony	17.4 UJ [16.7 UJ]
Beryllium	0.760 J [0.760 J]
Calcium	8,430 [7,970 J]
Cobalt	11.5 [11.7]
Copper	199 [218]
Iron	38,900 [41,800]
Magnesium	13,400 [13,200]
Manganese	473 [491]
Nickel	38.3 [39.2]
Potassium	5,510 [5,320]
Sodium	29,900 [27,900]
Vanadium	51.6 [51.8 J]
Zinc	412 [457 J]
Cyanide	2.19 UJ [2.11 UJ]

BG-20	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	16.6 J
Barium	115 J
Cadmium	0.970 J
Chromium	86.2
Lead	180 J
Mercury	1.00 J
Silver	3.50 J
Aluminum	17,400
Antimony	15.5 UJ
Beryllium	0.770 J
Calcium	6,290 J
Cobalt	10.6
Copper	186
Iron	38,100
Magnesium	11,800
Manganese	454
Nickel	35.8
Potassium	4,980
Sodium	25,000
Vanadium	46.8 J
Zinc	357 J
Cyanide	1.90 UJ

BG-05	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	13.9 J
Barium	181 J
Cadmium	2.50 J
Chromium	92.5
Lead	361 J
Mercury	1.30 J
Silver	3.60 J
Aluminum	18,700
Antimony	14.1 UJ
Beryllium	0.670 J
Calcium	16,900 J
Cobalt	12.6
Copper	338
Iron	42,400
Magnesium	15,200
Manganese	350
Nickel	49.1
Potassium	4,810
Sodium	23,200
Vanadium	61.8 J
Zinc	851 J
Cyanide	1.74 UJ

BG-18	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	6.60 J
Barium	143 J
Cadmium	1.10 J
Chromium	60.0
Lead	187 J
Mercury	0.700 J
Silver	2.10 J
Aluminum	14,000
Antimony	13.8 UJ
Beryllium	0.540 J
Calcium	4,460 J
Cobalt	8.80
Copper	142
Iron	28,600
Magnesium	8,620
Manganese	310
Nickel	30.0
Potassium	4,190
Sodium	16,000
Vanadium	41.9 J
Zinc	346 J
Cyanide	1.67 UJ

BG-04	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Barium	179 J
Cadmium	2.50 J
Chromium	89.9
Lead	340 J
Mercury	1.10 J
Selenium	36.6 U
Silver	3.60 J
Aluminum	17,800
Antimony	16.1 UJ
Beryllium	0.510 J
Calcium	16,000 J
Cobalt	11.3
Copper	318
Iron	37,600
Magnesium	14,300
Manganese	337
Nickel	43.9
Potassium	4,930
Sodium	27,200
Vanadium	58.6 J
Zinc	801 J
Cyanide	2.02 UJ

BG-02	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	11.3 J
Barium	141 J
Cadmium	1.90 J
Chromium	77.9
Lead	294 J
Mercury	1.00 J
Silver	8.80
Aluminum	14,700
Antimony	14.6 UJ
Beryllium	0.510 J
Calcium	13,500 J
Cobalt	10.1
Copper	261
Iron	33,500
Magnesium	14,000
Manganese	254
Nickel	44.2
Potassium	4,050
Sodium	23,400
Thallium	13.2 U
Vanadium	49.4 J
Zinc	668 J
Cyanide	1.85 UJ

BG-03	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	6.70 J
Barium	126 J
Cadmium	1.90 J
Chromium	60.9
Lead	336 J
Mercury	3.90 J
Silver	3.20
Aluminum	10,500
Antimony	9.40 UJ
Beryllium	0.380 J
Calcium	12,000 J
Cobalt	7.90
Copper	211
Iron	24,200
Magnesium	10,800
Manganese	209
Nickel	34.9
Potassium	2,870
Sodium	12,300
Vanadium	38.4 J
Zinc	526 J
Cyanide	1.18 UJ

BG-01	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	10.1 J
Barium	153 J
Cadmium	2.20 J
Chromium	75.9
Lead	331 J
Mercury	1.10 J
Selenium	31.8 U
Silver	3.40 J
Aluminum	13,500
Antimony	14.0 UJ
Beryllium	0.420 J
Calcium	16,100 J
Cobalt	10.3
Copper	293
Iron	31,800
Magnesium	12,300
Manganese	253
Nickel	42.0
Potassium	3,690
Sodium	22,100
Thallium	12.7 U
Vanadium	48.2 J
Zinc	750 J
Cyanide	1.74 UJ

BG-09	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	15.8 J
Barium	118 J
Chromium	65.3
Lead	206 J
Mercury	0.430 J
Silver	2.00 J
Aluminum	14,600
Antimony	18.7 UJ
Beryllium	0.540 J
Calcium	8,780 J
Cobalt	10.9
Copper	169
Iron	36,300
Magnesium	14,000
Manganese	288
Nickel	59.1
Potassium	4,440
Sodium	27,300
Vanadium	51.3 J
Zinc	414 J
Cyanide	2.34 UJ

BG-06	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	12.5 J
Barium	151 J
Cadmium	1.80 J
Chromium	77.8
Lead	318 J
Mercury	0.950 J
Silver	3.40 J
Aluminum	15,300
Antimony	14.4 UJ
Beryllium	0.480 J
Calcium	13,300 J
Cobalt	11.1
Copper	277
Iron	32,000
Magnesium	13,400
Manganese	270
Nickel	45.4
Potassium	4,230
Sodium	21,400
Vanadium	54.3 J
Zinc	725 J
Cyanide	1.78 UJ

BG-08	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	14.1 J
Barium	136 J
Cadmium	1.80 J
Chromium	83.0
Lead	246 J
Mercury	0.740 J
Silver	3.40 J
Aluminum	17,500
Antimony	16.8 UJ
Beryllium	0.660 J
Calcium	10,000 J
Cobalt	11.1
Copper	249
Iron	38,300
Magnesium	13,100
Manganese	382
Nickel	39.2
Potassium	5,020
Sodium	28,300
Vanadium	50.8 J
Zinc	545 J
Cyanide	2.10 UJ

BG-07	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	7.30 J [12.9 J]
Barium	185 J [162 J]
Cadmium	2.00 J [1.80 J]
Chromium	75.0 [79.8]
Lead	319 J [276 J]
Mercury	0.700 J [0.830 J]
Silver	3.50 J [3.30 J]
Aluminum	15,600 [16,300]
Antimony	15.7 UJ [16.2 UJ]
Beryllium	0.380 J [0.580 J]
Calcium	17,400 J [10,400 J]
Cobalt	10.8 [10.7]
Copper	278 [254]
Iron	35,000 [34,700]
Magnesium	14,200 [12,700]
Manganese	250 [327]
Nickel	42.7 [38.8]
Potassium	4,310 [4,590]
Sodium	23,600 [26,100]
Vanadium	54.9 J [52.5 J]
Zinc	737 J [610 J]
Cyanide	1.92 UJ [2.00 UJ]

BG-19	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	17.3 J
Barium	118 J
Cadmium	1.10 J
Chromium	92.7
Lead	178 J
Mercury	0.990 J
Silver	3.70 J
Aluminum	19,800
Antimony	16.0 UJ
Beryllium	0.780 J
Calcium	6,850 J
Cobalt	11.7
Copper	194
Iron	38,500
Magnesium	12,600
Manganese	539
Nickel	38.3
Potassium	5,810
Sodium	26,100
Vanadium	47.8 J
Zinc	351 J
Cyanide	1.99 UJ

BG-21	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	16.5 J
Barium	198 J
Cadmium	1.30 J
Chromium	87.8
Lead	271 J
Mercury	1.10 J
Silver	3.70 J
Aluminum	18,200
Antimony	14.4 UJ
Beryllium	0.710 J
Calcium	5,940 J
Cobalt	11.4
Copper	234
Iron	35,800
Magnesium	11,800
Manganese	416
Nickel	39.6
Potassium	5,080
Sodium	20,400
Vanadium	49.9 J
Zinc	535 J
Cyanide	1.75 UJ

BG-14	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	4.50 J
Barium	69.7 J
Cadmium	0.460 J
Chromium	37.9
Lead	175 J
Mercury	0.240 J
Silver	1.00 J
Aluminum	8,710
Antimony	7.60 UJ
Beryllium	0.860 J
Calcium	4,310 J
Cobalt	8.70
Copper	153
Iron	19,100
Magnesium	5,960
Manganese	187
Nickel	38.5
Potassium	2,590
Sodium	8,060
Vanadium	26.4 J
Zinc	553 J
Cyanide	0.951 UJ

BG-13	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	11.6 J
Barium	141 J
Cadmium	1.90 J
Chromium	90.5
Lead	245 J
Mercury	0.960 J
Silver	3.70 J
Aluminum	20,000
Antimony	12.6 UJ
Beryllium	0.740 J
Calcium	9,380 J
Cobalt	11.2
Copper	246
Iron	34,300
Magnesium	12,500
Manganese	408
Nickel	39.8
Potassium	5,360
Sodium	20,300
Vanadium	55.6 J
Zinc	515 J
Cyanide	1.59 UJ

BG-15	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Barium	130 J
Cadmium	1.50 J
Chromium	73.2
Lead	180 J
Mercury	0.900 J
Silver	2.60 J
Aluminum	16,100
Antimony	15.2 UJ
Beryllium	0.630 J
Calcium	7,300 J
Cobalt	9.00
Copper	181
Iron	31,300
Magnesium	10,600
Manganese	344
Nickel	32.4
Potassium	4,610
Sodium	19,200
Vanadium	47.4 J
Zinc	393 J
Cyanide	1.94 UJ

BG-11	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	9.00 J
Barium	137 J
Cadmium	1.70 J
Chromium	84.8
Lead	240 J
Mercury	0.820 J
Silver	3.30 J
Aluminum	17,500
Antimony	14.3 UJ
Beryllium	0.680 J
Calcium	8,640 J
Cobalt	11.4
Copper	248
Iron	37,200
Magnesium	12,500
Manganese	375
Nickel	40.5
Potassium	4,820
Sodium	22,800
Vanadium	55.4 J
Zinc	559 J
Cyanide	1.74 UJ

BG-10	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	16.6 J
Barium	112 J
Cadmium	1.30 J
Chromium	73.9
Lead	188 J
Mercury	0.650 J
Silver	2.80 J
Aluminum	16,100
Antimony	15.2 UJ
Beryllium	0.570 J
Calcium	8,550 J
Cobalt	10.0
Copper	208
Iron	35,300
Magnesium	12,300
Manganese	366
Nickel	40.7
Potassium	4,760
Sodium	24,800
Vanadium	47.3 J
Zinc	427 J
Cyanide	1.86 UJ

BG-12	
Depth (feet)	0 – 0.5
Analyte	Result (mg/kg)
Arsenic	21.0
Barium	99.2 J
Cadmium	2.10 J
Chromium	53.5
Lead	166 J
Mercury	0.700 J
Silver	1.40 J
Aluminum	15,900
Antimony	10.0 UJ
Beryllium	0.790 J
Calcium	3,500 J
Cobalt	11.4
Copper	67.3
Iron	57,600
Magnesium	9,650
Manganese	549
Nickel	45.0
Potassium	4,450
Sodium	12,500
Vanadium	41.8 J
Zinc	1,050 J
Cyanide	1.21 UJ

LEGEND:

- BG-01 ● BACKGROUND SAMPLE LOCATION
- SITE LOCATION
- APPROXIMATE LOCATION OF IMPROVED CHANNEL
- FLOW DIRECTION (SEE NOTE 2)

NOTES:

1. AERIAL PHOTO FROM GOOGLE – IMAGERY, 2008.
2. FLOW ARROW REPRESENTS NET FLOW DOWNSTREAM OF THE SITE; HOWEVER, THE FLOW IN WESTCHESTER CREEK IS TIDALLY INFLUENCED AND REVERSES FOUR TIMES DAILY WITH THE TIDE CYCLE.
3. THE BOUNDARIES OF THE IMPROVED CHANNEL, APPROXIMATED TO BE 0.02 NAUTICAL MILES (~121.5 FEET), ARE ESTIMATED BASED ON THE NOAA CHART 12366, ED. 29, JULY 1, 2008.
4. BACKGROUND SEDIMENT SAMPLE LOCATIONS WERE SURVEYED BY ARCADIS FROM MAY 13 TO 17, 2011 USING SURVEY-GRADE GLOBAL POSITIONING EQUIPMENT.

0 400' 800'
GRAPHIC SCALE

FORMER UNIONPORT WORKS SITE
1066 ZEREGA AVENUE BRONX, NEW YORK
WESTCHESTER CREEK SEDIMENT INVESTIGATION

BACKGROUND SEDIMENT SAMPLE ANALYTICAL RESULTS - INORGANICS

ARCADIS

FIGURE
3-15

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: L.POSENAUER LD:(Opt) PIC:(Opt) PM: M.JONES TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\004301S\000010000\04\DWG\SCR\43015C10.dwg LAYOUT: 3-15 SAVED: 11/1/2011 3:08 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/7/2013 2:55 PM BY: SCHILLING, ADAM
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ARCADIS

Appendix A

Field Notes

(on CD Only)

ARCADIS

Appendix B

Analytical Laboratory Data Reports

(on CD Only)

ARCADIS

Appendix C

Data Usability Summary Report

(on CD Only)

ARCADIS

Appendix D

Waste Classification Analytical Results

(on CD Only)

ARCADIS

Appendix E

Boring Logs

(on CD Only)

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Appendix F

Sediment Core Processing Photos

(on CD Only)

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Appendix G

Waste Disposal Receipt

(on CD Only)

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Appendix H

Forensic Evaluation of PAH Compositions of Westchester Creek Sediments

(on CD Only)

5/5/11 WESTCHESTER CREEK PROBING

LOCATION	WD (FT)	PROBE DEPTH (FT)	DESCRIPTION
SP-38	9.1'	9.0'	L. SILT SAND
SP-42	8.5'	10.2'	L. SILT TIGHT SAND
SP-46	7.3'	10.2'	L. SILT TIGHT SAND
SP-15	15.1'	11.1'	L. SILT ROCKS
SP-19	15.4'	13.6'	L. SILT CLAY
SP-23	15.6'	13.4'	L. SILT CLAY
SP-27	16.0'	11.3'	L. SILT SAND
SP-31	16.3'	7.2'	L. SILT SAND GRAVEL
SP-35	15.3'	6.7'	L. SILT SAND
SP-39	15.8'	5.2'	L. SILT SAND
SP-43	16.5'	4.5'	L. SILT SAND
SP-47	15.0'	6.5'	L. SILT SAND
SP-17	15.0'	2.0'	L. SILT ROCK
SP-21	15.0'	3.0	L. SILT HARD BOTTOM
SP-25	12.0'	7.0'	GR. OVER SILT HARD BOTTOM

5/5/11 WESTCHESTER CREEK PROBING

3.5' TOP HEADWALL (GPS) TO TOP OF WATER
4.0' TOP HEADWALL (GPS) TO TOP OF WATER
4.0' TOP HEADWALL (GPS) TO TOP OF WATER

Projects (continued)

4" PVC DISCHARGE TO CREEK FROM CITGO GAS STATION *

5/3/11 BACKGROUND SEDIMENT PROBING

IN ATTENDANCE ROB KUHN
NOAH BAUER > ARCADIS
TOM O'ROURKE
GEORGE BAEZ - CON ED
HANK WILLEMS - DEC

* ALL LOCATIONS SURVEYED BY TOM O'ROURKE BST 7 TRANSECTS INC. EDGES & MIDDLE

LOCATION	WIDTH	PROBE DEPTH (FT)	DESCRIPTION
BGP-01	18.5'	10.0'	VEG/LOOSE SILT, SLIGHT SHEEN
BGP-02	15.0'	10.5'	LOOSE SILT OVER ROCK
BGP-03	10.0'	10.0'	LOOSE SIL, TAKE GRAVEL (OVER LOOSE SILT TAKE SHEENS
BGP-04	12.5'	11.5'	GRAVEL OVER LOOSE SILT
BGP-05	21.0'	10.0'	LOOSE SIL, TAKE GRAVEL
BGP-06	9.0'	10.0'	GRAVEL OVER LOOSE SILT/CLAY
BGP-07	19.0'	10.0'	LOOSE SILT
BGP-08	19.0'	11.0'	LOOSE SILT
BGP-09	5.5'	10.0'	LOOSE SILT OVER STIFF BOTTOM
BGP-10	19.0'	10.0'	GRAVEL OVER LOOSE SILT, TAKE SHEEN
BGP-11	12.0'	15.5'	LOOSE SILT/GRAVEL OVER HARD BOTTOM
BGP-12	6.0'	8.0'	LOOSE SILT OVER STIFF CLAY
BGP-13	19.5'	4.5'	LOOSE SILT OVER TIGHT SAND
BGP-14	6.5'	6.0'	GRAVEL/SILT OVER STIFF BOTTOM
BGP-15	12.0'	12.0'	SILT/GRAVEL OVER STIFF BOTTOM
BGP-16	21.0'	8.0'	LOOSE SILT OVER SAND
BGP-17	13.0'	12.0'	LOOSE SILT OVER STIFF BOTTOM
BGP-18	9.0'	9.0'	LOOSE SILT OVER STIFF BOTTOM
BGP-19	20.0	8.5	LOOSE SILT OVER ROCK
BGP-20	10.0'	17.0'	LOOSE SILT/GRAVEL STIFF BOTTOM
BGP-21	9.0'	8.0'	LOOSE SILT OVER STIFF BOTTOM

5/2/11 HIGH TIDE RECONNAISSANCE

* THREE DISCHARGE PIPES @ BULK OIL FACILITY ON WEST SIDE OF CREEK (NOT LOCATED). SPILLS PERMIT OUTFALL #1! 0087874-001

* ALL PIPES/OUTFALLS LOCATED BY TOM O'ROURKE
* NO FIELD NOTICES FROM PIPES/OUTFALLS
* GENERAL LAND USE CONSISTS OF INDUSTRIAL BUSINESSES ON THE WEST SIDE, EAST SIDE IS PREDOMINATELY BORDERED BY VEGETATION / HIGHWAY. A CITGO GAS STATION IS LOCATED ON THE EAST SIDE UPSTREAM OF THE SITE.
* MARINA LOCATED ON WEST SIDE OF RIVER UPSTREAM OF SITE
* NO STRESSED VEGETATION NOTICED
* BANK MATERIALS ON EAST SIDE CONSIST PREDOMINANTLY OF VEGETATION/STONE R.P RAP. WEST SIDE BANK MATERIALS CONSIST OF SHEET PILING / MARINA / CONCRETE HEADWALLS
* NO VAPOR SEEPS / STAINING / SHEENS OR ODOR NOTICED
* VARIOUS / NUMEROUS DEBRIS (GARBAGE) NOTICED ALONG EASTERN SIDE OF CREEK. WESTERN SIDE INCLUDES TIRES, SCRAP IRON ETC.
* SURFACE WATER USAGE PREDOMINATELY INDUSTRIAL W/ SOME RECREATIONAL BOATING FROM MARINA. NO OTHER BOATS NAVIGATING CREEK TODAY.
* BACKGROUND LOCATIONS CHOSEN DOWNSTREAM OF OIL FACILITY NEAR HEADWATERS TO ~200' UPSTREAM OF SITE

5/2/11 HIGH TIDE RECONNAISSANCE (22)

* THREE DISCHARGE PIPES @ BULK OIL FACILITY ON WEST SIDE OF CREEK (NOT LOCATED). SPOKE PERMIT OWNER #1! 0087874-001

* ALL PIPES/OUTFALLS LOCATED BY TOM O'ROURKE
* NO FISH NOTICED FROM PIPES/OUTFALLS
* GENERAL LAND USE CONSISTS OF INDUSTRIAL BUSINESSES ON THE WEST SIDE, EAST SIDE IS PREDOMINATELY FORESTED W/ VEGETATION / HIGHWAY. A CITGO GAS STATION IS LOCATED ON THE EAST SIDE UPSTREAM OF THE SITE.
* MARINA LOCATED ON WEST SIDE OF RIVER UPSTREAM OF SITE
* NO STRESSED VEGETATION NOTICED
* BANK MATERIALS ON EAST SIDE CONSIST PRIMARILY OF VEGETATION STONE R/P RAP. WEST SIDE BANK MATERIALS CONSIST OF SHEET PILING / MARINA / CONCRETE HEADWALLS
* NO VAPOR SEEPS / STAINING / SHEENS OF ANY KIND NOTED
* VARIOUS / NUMEROUS DEBRIS (GARBAGE) NOTICED ALONG EAST SIDE OF CREEK. WOODED SIDE INCLUDES TREES, SCRUB BRUSH ETC.
* SURFACE WATER USAGE PREDOMINATELY INDUSTRIAL W/ SOME RECREATIONAL BOATING FROM MARINA. NO OTHER BOATS NAVIGATING CREEK TODAY.
* BACKGROUND LOCATIONS CHOSEN DOWNSTREAM OF OIL FACILITY NEAR HEADWATERS TO ~200' UPSTREAM OF SITE

5/4/11 WESTCHESTER CREEK SITE PROBING (23)

* LOCATIONS MOVED DUE TO GAS/ELECTRIC UTILITY CORRIDOR

LOCATION	W.D.(FT)	PROBE DEPTH (FT)	DESCRIPTION	
SP-01	0.2'	0.2'	SAND GR COBBLE	*
SP-02	10.8'	3.7'	L. SILT GR ROCK	*
SP-03	14.6'	6.6'	L. SILT GR ROCK	*
SP-04	0.1'	10.4'	L. SILT TR SLGR	*
SP-05	2.1'	1.4'	SAND GR COBBLE	
SP-06	11.3'	7.2'	L. SILT ROCK	SLIGHT SHEEN
SP-07	16.5'	7.5'	L. SILT HARD BOTTOM	*
SP-08	5.0'	7.0'	L. SILT TR GR. STIFF CLAY	*
SP-09	7.3'	9.3'	L. SILT GR. BOTTOM	
SP-10	14.9'	6.9'	L. SILT OVER ROCK TR SHEEN	
SP-~~X~~13	8.5'	10.0'	L. SILT OVER CLAY HARD BOTTOM	TR SHEEN
SP-~~X~~29	9.4'	6.5'	L. SILT OVER GR	TR. SHEEN
SP-33	6.0'	1.5'	S. GR. OVER ROCK	
SP-37	8.3'	7.2'	SILT GR. HARD BOTTOM	
SP-41	4.4'	1.1'	SILT BTN COBBLE ROCK	
SP-45	5.2'	7.9'	L. SILT STIFF CLAY	
SP-48	15.4'	8.1'	L. SILT SAND	
SP-44	15.1'	8.1'	L. SILT SAND	TR SHEEN
SP-40	15.8'	11.2'	L. SILT HARD BOTTOM	
SP-36	15.0'	12.3'	L. SILT SAND	
SP-32	13.8'	15.2'	L. SILT CLAY	
SP-28	14.2'	15.8'	L. SILT CLAY	
SP-24	14.3'	14.0'	L. SILT CLAY	

5/4/11 WESTCHESTER CREEK PROBING

LOCATION	WD(FT)	PROBE (FT)	DESCRIPTION
SP-20	15.8'	14.2'	L SILT CLAY
SP-16	14.0'	12.0	L SILT TR GR STIFF BOTTOM
SP-12	12.0'	10.0	SILT TR GR STIFF BOTTOM
SP-11	20.5'	7.4'	L SILT ROCK
SP-14	17.7'	9.6'	L SILT SAND
SP-18	17.6'	9.9'	L SILT SAND / ROCK
SP-22	17.9'	12.1'	L SILT SAND
SP-26	17.4'	10.6'	L SILT SAND
SP-30	16.2	8.3'	L SILT ROCK
SP-34	14.8'	8.5	L SILT SAND

* L = LOOSE
* GR = GRAVEL
* TR = TRACE
* S = SAND

5/4/11 LOW TIDE RECONNAISSANCE

* RAINFALL ALL DAY TODAY, FLOW FROM MAJORITY OF OUTFALLS. NO SHEENS / NAPL EVIDENT FROM ANY OUTFALLS
* 3 ADDITIONAL OUTFALLS / PIPES EXPOSED DURING LOW TIDE. TOM O'ROURKE LOCATED W/ GPS
* TRACE SHEENS ON CREEK @ LOW TIDE, METRO MARINE ON WEST BANK WHERE ARCADIS BOAT IS BEING DOCKED HAD NUMEROUS SHEENS ALONG CREEK EDGE.
* FUEL / OIL BARGE BROUGHT UPSTREAM TO OIL FACILITY NEAR HEADWATERS.
* VEGETATION, LAND USE, BANK MATERIALS SIMILAR TO HIGH TIDE RECONNAISSANCE W/ EXCEPTION OF EXPOSED SUNK BARGE / BOATS ON WEST BANK JUST SOUTH OF METRO MARINE ; EXPOSED CAR REMNANTS (MOTOR, BODY) ETC ON EAST BANK NEAR BRIDGE OVER DAM.