Site Characterization Study Report

for the

Former West 18th Street Gas Works

Manhattan, New York

VCA Site # V00530-2

Prepared For:
Consolidated Edison Company of New York, Inc.
31-01 20th Avenue
Long Island City, NY 11105-2048

Prepared By:
TRC Environmental Corporation
1200 Wall Street West
Lyndhurst, New Jersey 07071

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EXECUTIVE SUMMARY

The former West 18th Street Gas Works Site (Site), which is located in the Chelsea section of Manhattan, New York, was investigated by the Consolidated Edison Company of New York, Inc. (Con Edison) to determine if structures of the former gas plant or residual byproducts from the gas production process are present at the Site. The former Site, which operated from approximately 1833 to approximately 1914 when the last of the gas holders were demolished, occupied a four-block area bounded by West 16th and West 20th Streets between 10th Avenue and the bulkhead along the Hudson River. In addition, a small parcel located along the south side of West 18th Street, west of 10th Avenue, contained two gas holders. The plant included the gas works, which was located on the block between West 17th and West 18th Streets, a total of eleven above-ground gas holders previously located on various parcels, and coal storage areas. The former plant site currently contains commercial and industrial businesses that include storage warehouses, office buildings, art galleries, commercial studios and public parking lots.

Site characterization study (SCS) activities were performed in accordance with a Voluntary Cleanup Agreement (VCA) (Index #D2-0003-02-08), between Con Edison and the New York State Department of Environmental Conservation (NYSDEC), and in accordance with the NYSDEC-approved SCS Work Plan. Due to the number of property owners involved and access conditions, the SCS was conducted in a discontinuous manner from April 2004 to November 2005.

For ease of discussion, the Site has been segmented in to six areas, as designated below.

FORMER WEST 18th STREET GAS WORKS

HISTORICAL MGP STRUCTURES

DESIGNATED AREAS	HISTORICAL STRUCTURES
Area 1	Two former gas holders (Designated Gas Holder No. 1 and Gas Holder No. 2), located on the south side of West 18th Street between 9th and 10th Avenues.
Area 2	Two former gas holders (Designated Gas Holder No. 3 and Gas Holder No. 4), and the former Gas Light Company pipe and store yards. Located between West 19th and 18th Streets and between 10th Avenue and the bulkhead along the Hudson River.

FORMER WEST 18th STREET GAS WORKS HISTORICAL MGP STRUCTURES	
DESIGNATED AREAS	HISTORICAL STRUCTURES
Area 3	Former structures include a retort house, purifying house, workshops, and laboratory. Located between West 17th and 18th Streets and between 10th Avenue and the bulkhead of the Hudson River.
Area 4	The former Gas Light Company coal yards. Located between West 16th and 17th Streets and between Route 9A and 10th Avenue.
Area 5	Three former gas holders (Designated Gas Holder No. 5, Gas Holder No. 6, and Gas Holder No. 7), located between West 19th and 20th Streets and between the bulkhead along the Hudson River and 10th Avenue.
Area 6	Four former gas holders (Designated Gas Holders No. 8 through No. 11), centrally located along current Route 9A, between Area #4 and the bulkhead along the Hudson River.

The following table summarizes the types and numbers of investigation activities that were conducted in each of the six Areas of the Site.

Although the SCS entailed a significant number of sampling locations within the Site, additional investigation is required to characterize and fully delineate the subsurface soil and groundwater contamination present there. A proposed remedial investigation strategy is presented as an appendix to this SCS Report.

SCS Activity Description	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6
Exploratory Test Pits	2	1	2	0	1	0
Soil Boring Locations	7	13	15	2	12	3
Soil Samples (Including Duplicates)	33	58	61	11	39	10
Monitoring Wells	2	3	2	1	3	0
Groundwater Samples (Including Duplicates)	2	4	1	1	3	0
Collection of NAPL Samples	2	1	0	0	0	0

The key findings from the Site Characterization Study are summarized below.

- Soils encountered beneath the Site consist of four primary stratigraphies, overlying bedrock and consisted of urban fill, an upper sand unit, a low-permeability silty-clay unit, and a lower sand unit. Auger refusal, believed to be due to bedrock, occurred at depths ranging from approximately 45 feet below ground surface (ft bgs) in SB-07 to 86 ft bgs in SB-30 and SB-24. Based upon depths to auger refusal, bedrock appears to dip from the northeast to the west/southwest. Bedrock core samples were not collected as part of this SCS. The silty-clay unit is absent or discontinuous to the east (upgradient) of the majority of the former MGP site (i.e., east of 10th Avenue). Depth to top of the silty-clay ranged from approximately 20 ft bgs in the east to approximately 41 ft bgs in the western portions of the Site.

- Groundwater occurs in the shallow water table aquifer and deeper aquifer. The water table generally resides in the fill unit and the deeper aquifer occurs in the lower sand unit. The deep aquifer is effectively isolated from the water table aquifer beneath the former MGP by the low permeability silt/clay unit.

- The shallow water table occurs at depths between approximately 5 and 11 ft bgs and groundwater in this aquifer generally flows from east to west towards the Hudson River.

- Impacted subsurface soil, where detected, was almost exclusively present in the urban fill and upper sand units above the silty-clay unit. With one exception, no impacts were detected in the deeper aquifer.

- The presence of former MGP related structures were identified in the subsurface in Areas 1, 2, 3 and 5. Gas holder foundations were encountered in Areas 1, 2 and 5. Retort House, Laboratory and Scrubber foundations were encountered in Area 3.

- Physical evidence of both petroleum and MGP-related contamination was detected in subsurface soil in Areas 1, 2, 3, 4 and 5. Evidence of contamination included odors, staining, sheen, oil-like material (OLM), tar-like material (TLM), light non-aqueous phase liquid (LNAPL) and or dense non-aqueous phase liquid (DNAPL). Where detected, MGP impacts were typically encountered in discrete bands within the 10-foot interval above the top of the silty-clay unit.

- All petroleum impacts detected are not attributed to operations of the former MGP, but rather are due to operations of on-site underground storage tanks (USTs) used to store petroleum or to documented petroleum spills in adjacent and upgradient off-site areas.

- Approximately five feet of coal tar DNAPL was measured in groundwater monitoring well MW-24B (screened in the deep aquifer) prior to groundwater sampling. During drilling and

soil sampling at this well location, no evidence of contamination was detected. The source and mechanism for the occurrence of the DNAPL in this well is not known.

- The concentrations of volatile organic compounds (VOCs), Total VOCs, semi-volatile organic compounds (SVOCs), Total SVOCs and several metals detected in subsurface soil exceeded their NYSDEC recommended soil cleanup objectives (RSCOs) in all Areas of the Site. It is noted that some of the elevated VOCs and SVOCs and the majority, if not all, of the elevated metals concentrations are attributed to the ambient quality of soil that constitutes the urban fill, and are not related to the former MGP.

- The concentrations of VOCs, SVOCs, several metals, and total cyanide detected in shallow groundwater exceeded their NYSDEC ambient water quality standards and guidance values (AWQSGVs) in Area 1. In Areas 3 and 5 only VOCs and SVOCs were detected at elevated concentrations. Only one metal and one VOC were detected at elevated concentrations in Area 2. In area 4 only one metal was detected in groundwater at an elevated concentration. In Area 1 the elevated VOCs and SVOCs concentrations are attributed almost exclusively to documented petroleum releases from existing and former USTs that were operated in this Area and are generally not due to operations of the former gas holders here.

- With the exception of coal tar in monitoring well MW-24B (discussed above), no MGP-related impacts were detected in the deep groundwater.

- The results of the qualitative exposure assessment showed that there are no potential risks of exposure to subsurface soil and groundwater under the current site conditions. Under the current site configuration, all surfaces at the former MGP Site are covered by concrete or asphalt pavement or concrete building foundations. However maintenance, construction and or utility workers may be exposed through direct contact and or inhalation of vapors and or airborne dust containing contaminants of interest.

Recommendations and Conclusions

Residuals from the operations of the former MGP have been identified at the former West 18th Street Gas Works Site. Elevated concentrations of VOCs, SVOCs and metals were detected in subsurface soil and groundwater. Based on these subsurface conditions a Remedial Investigation (RI) will be conducted at the Site to delineate impacts identified during the SCS. A RI Work Plan is provided in Appendix E of this SCS Report.

1 INTRODUCTION

This report (Report) presents the results of the Site Characterization Study (SCS) that was conducted by TRC Environmental Corporation (TRC) on behalf of the Consolidated Edison Company of New York, Inc. (Con Edison) for the former West 18th Street Gas Works Site, located on the lower west side of Manhattan (Chelsea section). The site is a former manufactured gas plant (MGP) that was operated by one of Con Edison's predecessor companies through the early 1900's. Figure 1 shows the Site location. The SCS for the properties that once comprised the grounds of the former West 18th Street Gas Works (the "Site") was conducted pursuant to the terms of Voluntary Cleanup Agreement (VCA) Index # D2-0003-02-08 (the VCA) between Con Edison and the New York State Department of Environmental Conservation (NYSDEC). The SCS field investigation activities for the Site were carried out and completed in accordance with a NYSDEC-approved Site Characterization Work Plan (SCSWP) that was prepared for Con Edison by TRC.

1.1 Project Background

In 2002, Con Edison entered a VCA with the NYSDEC. Under the agreement, Con Edison agreed to investigate and, if necessary, remediate former MGP sites that were operated by its predecessor companies. The West 18th Street former MGP was identified as one of these former sites. Therefore, in compliance with the VCA, Con Edison implemented a SCS at this Site. The details of the SCS are presented herein.

1.2 Project Objectives

The objectives of the SCS were to:

- Determine the presence or absence of residues related to operations of the former MGP;
- Determine if remnant structures of the former MGP are present in the subsurface at the Site; and
- Determine the need for additional site investigation, if any.

As a initial step in satisfying these objectives TRC, on behalf of Con Edison prepared the *Site Characterization Study Work Plan for the Former West 18th Street MGP Site, Manhattan, New York* [SCSWP] (TRC, 2003). The workplan was developed based on the *West 18th Street Manufactured Gas Plant Site History Report* [SHR] (Parsons, 2002), the draft NYSDEC Guidelines for Site Characterization and Remedial Investigation (Draft NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, 2002) and observations made during

a site reconnaissance conducted by Con Edison and TRC in August, 2003. The SCS Work Plan was approved by NYSDEC in February 2004.

1.3 SCS Report Outline

The remainder of this Report is organized as follows:

Section 2.0 outlines the Site Background, including a description of the Site and adjoining properties, current land use and zoning, Site history and ownership, regional geologic and hydrogeologic conditions, findings of previous Site investigations, and the findings of the environmental records search performed by Parsons on behalf of Con Edison.

Section 3.0 provides descriptions of the key aspects of the Site Characterization Study. For the purposes of this Report, the Site has been divided into six Areas as defined below. Note that, with the exception with the adjunct parcel (designated Area 1), all areas are bound on the east and by 10th Avenue and on the west by 11th Avenue (as it existed when the plant was operating – See Figure 2).

Area Number	Current Boundaries	Tax Block and Lot	Key MGP Features
1	Along West 18th Street between 9th and 10th Avenues	Block 715, Lot 59	Gas Holders No. 1 and No. 2
2	Between West 18th and West 19th Streets, from 10th Avenue westward to the bulkhead of the Hudson River	Block 690, Lots 12, 20, 29, 40, 42 and 54; a portion of Block 622	Gas Holders No. 3 and No. 4, Pipe and Storage Yards
3	Between West 17th and West 18th Streets, from 10th Avenue westward to the bulkhead of the Hudson River	Block 689, Lot 17; a portion of Block 622	Retort House, Purifying House, Scrubbers, Laboratory, Workshops, New and Foul Lime Storage
4	Between West 16th and West 17th Streets, from 10th Avenue westward to Route 9A	Block 688, Lots 1001 and 1002	Coal Yard

Area Number	Current Boundaries	Tax Block and Lot	Key MGP Features
5	The western portion of the block between West 19th and West 20th Streets, westward to the bulkhead along the Hudson River	Block 691, Lots 1 and 11; a portion of Block 622	Gas Holders No. 5, No. 6, and No. 7
6	A portion of Route 9A westward to the bulkhead along the Hudson River, from West 16th Street to West 17th Street	A portion of Block 662	Gas Holders No. 8, No. 9, No. 10, and No. 11

Section 4.0 presents site-specific geologic and hydrogeologic information, and discusses the field observations and analytical data in comparison to the applicable NYSDEC regulatory standards.

Section 5.0 presents the qualitative exposure assessment, which consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating contaminant fate and transport.

Sections 6.0 presents the conclusions and recommendations developed in consideration of the findings and observations discussed in Section 4.0.

Section 7.0 presents the references used in preparation of this SCS Report.

2 SITE BACKGROUND

A detailed summary of the Site Background was developed by Parsons for Con Edison, and is presented in the August 2002 MGP Site History Report (SHR). That report was prepared based on Parson's review of available data and records for the Site with respect to both historical operations and current Site conditions. A summary description of the information presented in the SHR, and supplemented by additional information, is provided below. The Site background presented in the SHR was supplemented present-day conditions observed by Con Edison and TRC during a site walk on August 5, 2003.

2.1 Site Description

The former West 18th Street Gas Works is located in the Borough of Manhattan, New York City and New York County, New York (Figure 1). As is recorded in the SHR and the VCA, thirteen present-day Blocks/Lots comprise the former MGP Site, which covers portions of five modern city blocks, parts of Route 9A, and parts of the Chelsea Piers (Figure 3) along the Hudson River bulkhead. Specifically, the former MGP includes:

- Block 688, tax Lots 1001 and 1002 (entire block bounded by West 16th Street, West 17th Street, 10th Avenue and Route 9A);
- Block 689, tax Lot 17 (entire block bounded by West 17th Street, West 18th Street, 10th Avenue and Route 9A);
- Block 690, tax Lots 12, 20, 29, 40, 42, and 54 (entire block [except tax Lot 46] bounded by West 18th Street, West 19th Street, 10th Avenue and Route 9A);
- Block 691, tax Lots 1 and 11 (western end of block bounded by West 19th Street, West 20th Street, 10th Avenue and Route 9A);
- Block 715, tax Lot 59 (northwestern area of block bounded by West 17th Street, West 18th Street, 9th Avenue and 10th Avenue);
- The line of Route 9A between West 16th Street and West 20th Street (formerly parts of Blocks 688, 689, 690 and 691); and
- Portions of the Chelsea Piers (Piers 59, 60, 61 and 62) designated Block 662, (formerly part of Blocks 666, 688, and 689) along the Hudson River bulkhead.

The western ends of Blocks 688, 689, 690, and 691 were truncated for the inland extension of the Hudson River piers (now designated Block 662, City 3, 7, 11, 16, 19, and 62) and the reconfiguration of 11th Avenue and Marginal Street in the early twentieth century, and the later construction of the Route 9A during the 1920s and 1930s. A major reconstruction project for segments of Route 9A took place in the vicinity of the Site from 1996 to 2001. Block 666, a wedge-shaped area of the gas plant formerly located west of present-day Blocks 688, 689, and 690 along the then bank of the Hudson River, was condemned when the piers were extended inland. It should be noted that the existing tax Lots are an amalgam of smaller real estate lots, which were historically sold to the Manhattan Gas Light Company (one of Con Edison's

predecessor companies) by individual owners. Figure 3 shows the current street configuration with an overlay of the former MGP structures (based on historical maps and drawings (e.g., Sanborn Fire Insurance maps, Viele maps, Beers maps, etc.) and aerial photographs.

2.2 Current Land Use and Zoning

Within the general geographic area of the Site, property usage is light commercial, light industrial, local service district, and residential. All of the tax Lots contained on the Blocks (688, 689, 690, 691, and 715) that comprise the former MGP Site are zoned as M1-5 and are defined as Light Manufacturing District - High Performance. The Site usage includes storefront retail facilities to the east and west and a sports/entertainment complex located to the west and adjacent to the Site. A mixture of commercial office/warehouse facilities, art galleries and residential properties are located to the north and adjacent to the Site. An office facility and high-rise apartment building are located to the south. Details of current land use are described in the following paragraphs.

No aboveground remnants of MGP-related structures or by-products were observed during the site walk.

2.3 Site History, Process Operations and Uses

A summary of the Site history, ownership and use based on the SHR, is presented below chronologically as pre-, active, and post-MGP periods. In addition to the title search results, Sanborn Insurance Maps from 1895 to 1996 and other historical maps and atlases were used to develop the chain of ownership and evolution of site operations. A complete and tabular description of the real estate property transfers for each block/lot, as of Summer 2002, is included in the SHR (Parsons, August 2002).

2.3.1 Pre-MGP Ownership and Site Operations

The West 18th Street Gas Works property housed various structures prior to its use as a MGP, as described below by location and or present-day Tax Block number. Note that 11th Avenue was later replaced by Route 9A, and 13th Avenue was destroyed when the Hudson River shoreline/bulkhead was re-aligned.

Block 688 (bounded by West 16th and West 17th Streets, 10th and 11th Avenues)

As described above, Block 688 was completely under water until the 1830s, when landfilling began west of 10th Avenue. By the late 1830s and early 1840s the eastern half of the block, now reclaimed from the river, supported two houses along 10th Avenue (Assessed Valuation of Real Estate 1836 through 1842). By 1857, there were fifteen houses along 10th Avenue; six houses, a

stone yard, and two sheds on the south side of West 17th Street; and two houses east of 11th Avenue (Assessed Valuation of Real Estate 1857). These structures are depicted on the 1852 Dripps map. On the eastern end of the block, various residences, shops, a "Whiting Factory," a wagon factory, and a wood yard appeared on the 1859 Perris and Company map and the 1869 Perris and Browne map.

Block 689 (bounded by West 17th and West 18th Streets, 10th and 11th Avenues)

Housed little or no development prior to its use as an MGP. Once the eastern end of the block had been filled, the Manhattan Gas Light Company purchased the lots along West 18th Street and part of 10th Avenue in 1833 from various owners. Concurrently, individuals bought lots and constructed five houses at the southeast end of the block, adjacent to the MGP Works. These houses endured until the late 1850s, when the gas company bought these lots and razed the houses to make room for additional MGP structures.

Block 690 (bounded by West 18th and West 19th Streets, 10th and 11th Avenues)

The earliest development on Block 690 was a steam mill, constructed by William Hockman on the south side of the block along the newly filled shoreline by the late 1830s or early 1840s. Block 690 also contained a lumberyard, a coal yard, several houses, various sheds and shanties, a "Distillery and Manufactory of Compressed Yeast" complex, a paint factory, a cooperage (repair and making of barrels and tubs), and the "Manhattan Pottery" complex.

Block 691 (bounded by West 19th and West 20th Streets, 10th and 11th Avenues)

Housed primarily residences from the 1830s, when its eastern end was reclaimed from the Hudson River, through 1866, when the gas company purchased its first lots on the block. In the late 1830s and early 1840s, the block supported a stable and 8 houses. By 1857, the block had 19 houses, 8 lots with sheds, and a lumberyard.

Block 715 (bounded by West 17th and West 18th Streets, 9th and 10th Avenues)

Supported a number of houses and shops, although tax Lot 59, the property later owned by the gas company, was vacant during these years. In 1845 and 1846, individuals sold what would become tax Lot 59 to the Manhattan Gas Light Company for construction of a building to house two gasholders.

Block 662 - Former Block 666 (bounded by West 16th and West 19th Streets, former 11th and 13th Avenues)

Was under water through the 1830s and early 1840s, but had been filled by the early 1850s. The gas company purchased the central part of Block 666 in 1846 and 1849 and the southern part in 1858.

2.3.2 Active MGP History

MGP operations began at the West 18th Street Gas Works in 1834. During 1834, the Manhattan Gas Light Company purchased its initial property on the eastern end of Area 3 (Block 689) and began construction of the gas plant. The Manhattan Gas Light Company had formed in 1830, and by 1834, was providing gas to all of Manhattan north of Grand and Canal streets. The West 18th Street Gas Works was to be the second gas plant in the city, and the first erected by the Manhattan Gas Light Company. Construction of the West 18th Street Gas Works began in the fall of 1833, and continued for the next year. By November 1834, the plant was manufacturing and distributing coal gas to customers (Collins, 1934). During the nineteenth century, the West 18th Street Gas Works grew in size as the Manhattan Gas Light Company continued to purchase land and construct additional facility structures.

The first property bought by the Gas Works was on the south side of West 18th Street, at the eastern end of Area 3 (Block 689). A Retort House, Condensers, Scrubbers, and Purifying House, likely contained in one or two structures were constructed on this parcel.

In 1845 and 1846, the company purchased lots on Block 715 (Area 1) and built its first gas holders, enclosed in a brick warehouse-type structure along the south side of West 18th Street. Also purchased at this time was the center section of former Block 662, which allowed direct access to the river and a company pier. It used this area as a coal yard as well.

The purchase of more property at the eastern end of Area 3 in 1848 and 1849 allowed the MGP to expand its operations by constructing a new, detached Purifying House at the northeastern corner of the block. The company also bought land at the eastern end of Area 2 (Block 690), directly to the north, and constructed the initial pair of large, open gasholders.

In 1858, the Manhattan Gas Light Company purchased the western two-thirds of Block 688 (western portion of Area 4), and the southern section of former Block 666 (Area 6). The company erected four additional gas holders (250,000 cubic feet) in the middle of Area 6 and used the western end of Block 688 as a coal yard (now the Hudson River). The western-most portion of the then newly purchased part of former Block 666 was used for a lime yard. Also during this period, the Retort House (Area 3) had been expanded to include six groups of 160 retorts each, for a total of 960 retorts. To the west of the Retort House was a large coal house,

where coal was stored after being unloaded from the adjacent waterfront pier. To the east of the Retort House was a Laboratory along West 18th Street, and south of that, a building containing Condensers, Scrubbers and Washers.

In the late 1860s, the company purchased additional properties on Area 2 and Area 4, as well as lots on Area 5 (Block 691). The MGP works were expanded to include several large coal yards in Areas 2, 4 and 5, a pipe yard in Area 2, and another pair of large gas holders in Area 5. The West 18th Street Gas Works continued to operate through the final decades of the nineteenth century, although it did not acquire any additional property or change its configuration markedly during that period. The West 18th Street Gas Works appears to have operated only one or two years into the twentieth century.

In 1909, the two smaller gas holders in Area 5 were demolished, and in 1914, the remaining gas holders in Areas 1 and 2 were razed. During the 1910s, the gas company began to sell its property on the West 18th Street Gas Works blocks to other owners, marking the end of the MGP history.

2.3.3 Post-MGP Ownership and Use

The Site covered approximately four contiguous city blocks bound by West 20th Street to the north, West 16th Street to the south, 10th Avenue to the east, and the present Hudson River bulkhead to the west; as well one property located along 18th Street between 9th and 10th Avenues. Con Edison no longer owns any of the parcels that comprise the site of the former MGP. Figure 3 presents the current tax block/lot numbers referenced below.

Area 1 (Block 715, bounded by West 17th and West 18th Streets, 9th and 10th Avenues) housing tax Lot 59 contains the former gas holder house, now used as a garage. Although the gas holders have been removed and the building has been retrofitted, the exterior shell of the building has changed little.

Area 2 (Block 690, bounded by West 18th and West 19th Streets, 10th Avenue and the Hudson River bulkhead) had its western end condemned for pier and roadway reconfigurations, nearly all of the remaining property on the block belonged to the Consolidated Gas Company through the early 1900s. Specifically, the former MGP occupied modern tax Lots 12, part of 20, 29, part of 40, 42, and 54, as well as a portion of Block 662 (Chelsea Piers). ?After that time, tax Lot 12 was used as a wagon yard until 1922, when a large garage (with buried gasoline tanks), was built over nearly the entire lot. This structure, with some modifications, still stands in its original location.

- On tax Lot 12, the owners (West 19th Street Development, LLC) entered into an independent VCA with the NYSDEC, which required it to conduct a site investigation

and remediate impacts identified in the subsurface. Subsequently, West 19th Street Development, LLC, conducted two extensive site investigations to assess soil and groundwater quality beneath the site, as part of its property redevelopment. The results of the investigations showed that soil and groundwater beneath this parcel were impacted by MGP residuals as well as various petroleum products. Due to the thorough site investigations and NYSDEC-approved remediation that has taken place, residual contamination is being let in place;

- On tax Lot 20, a large garage was erected over the portion fronting West 18th Street in 1919, and is still standing in its original location. The smaller portion of tax Lot 20 along West 19th Street contained two row houses, built in the 1890s. They were razed for construction of a private garage, erected in 1947, which remains;

- Tax Lot 29 was used as a wagon yard after the gas holders were razed; it later became an truck parking lot, and last, a public automobile parking lot. Two structures located on the southeast corner of the lot were built in the mid-1920s. The lot contains underground gasoline tanks;

- Tax Lot 40 originally contained two halves: the Consolidated Gas Company owned one part, and used it as a pipe yard, while the second part was owned by other individuals, and contained a shop, which later became an automobile repair facility. In 1923, the Huntoon Ice Company purchased both halves of the lot, and in 1929, constructed a warehouse for ice storage over the entire lot. In 1969, Eli Studios purchased the building and lot; the former warehouse has been used as a movie studio since that time;

- Tax Lot 42 was sold to the Huntoon Ice Company in 1922, which erected a two-story warehouse the following year. A spring water company occupied the building later, which is still standing in its original location;

- Tax Lot 54 located at the corner of West 19th Street and Route 9A contained a two-story hotel, which later burned. The lot has been vacant since the 1960s; and

- The portion of Block 662, along the Hudson River bulkhead, where the Chelsea Piers Sports and Entertainment Complex, constructed in 1995, is now present.

Area 3 (Block 689, bounded by West 17th and West 18th Streets, 10th Avenue and the Hudson River bulkhead) also was owned entirely by the gas company, and is now designated principally as tax Lot 17. A portion of this area also extends to the Hudson River bulkhead, abutting Chelsea Piers (Block 662). In 1917, the Consolidated Gas Company sold the whole block (West 17th to West 18th Streets) to the New York State Realty and Terminal Company. From 1932-

1960, the property was owned by the New York Central Railroad Company. Since 1960, the block has been owned by a series of realty companies and corporations. After the gas company sold the property, some of the former MGP buildings on the block were used for other purposes. The remainders of the old MGP buildings were razed after the railroad acquired the property (1932), and a railroad yard (with tracks) was built in their place. Later, the tracks were covered and the block was used as surface parking for cars. In the mid-1950s, an automobile service station and garage were also built along West 17th Street, near present-day Route 9A. The buildings were demolished in the 1980s.

Currently, the block is used exclusively as a parking lot. The remainder of this area encompasses the portion of Route 9A along the west side of the block and a portion of the Chelsea Piers Sports and Entertainment Complex (Block 662).

Area 4 (Block 688, bounded by West 16th and West 17th Streets, 10th Avenue and Route 9A) was owned entirely by the gas company, and was designated as tax Lots 1001 and 1002 (now 7501). In 1916, the Consolidated Gas Company sold the whole block to the Merchants Refrigerating Company, and the following year the new owner constructed a ten-story warehouse with basement, covering the entire block. The property purchased by the Able Empire Group in 1982, and by the Tenth Avenue Mini Storage Associates in 1984. This building, although somewhat modified since its initial construction, still stands on the lot in its original location. Today it is occupied by condominiums and a mini storage facility.

Area 5 (Block 691, bounded by West 19th and West 20th Streets, 10th Avenue and the Hudson River Bulkhead) is comprised of modern tax Lots 1 and 11. After the gas holders were demolished, tax Lot 1 contained a small office building at its northwest corner while the rest of the property was vacant and used as a "house wrecker's yard." The eastern portion of tax Lot 11 was used for the Department of Street Cleaning's wagon yard. The American Red Cross had a structure along the 11th Avenue side of the block during the 1920s, covering parts of tax Lots 1 and 11. In 1929, the YMCA of New York purchased tax Lot 1, and the following year constructed an eight-story building (with basement) for use of its members (after the American Red Cross building was razed). This building, with minor alterations, remains on the lot in its original location today. Tax Lot 11 has been vacant since the American Red Cross building was demolished, and currently is used as a parking lot.

Area 6 (portion of Block 662, opposite of West 16th Street and west of Route 9A) is part of a paved pedestrian and bike path along the Hudson River bulkhead and Chelsea Piers Sports and Entertainment Complex. The original western ends of Blocks 662, 688, 689, 690, and 691 are now under the current alignment of Route 9A or were removed during waterfront modifications, which were laid out in the first decades of the twentieth century. By the 1930s, this roadway also supported the elevated Miller Highway, which was demolished in the early 1970s.

2.4 Site Operations

The processes and practices described in the following section are drawn from Harper's New Monthly Magazine (1862), historic maps, Con Edison records, Collins (1934), Hartgen (n.d.), Public Service Commission (PSC) Records, Brown's Directories, Eng (1985), Hornby (1911), Alrich (1934), Downing (1934), Stewart (1958), and EEI (1984), as described in the Parsons SHR.

The West 18th Street Gas Works manufactured coal gas from 1834 to the early 1900s (Collins, 1934 and Department of Docks and Ferries 1903 through 1905). Anthracite coal was delivered by barge or lighter to the Hudson River waterfront piers, and then by cart to the plant itself, located in Area 3. The coal was stored in a "coal house" at the western end of the block. Condensers and Scrubbers were located at the eastern end of the Retort House. Raw gas was piped to and went through the Purifying House, located at the far eastern end of the block. From the Purifying House the gas went to the holders at various locations in Areas 1, 2, and 5, for storage before being distributed to customers. At its peak, the West 18th Street Gas Works had 11 gas holders, with a combined capacity of approximately 3,500,000 cubic feet (PSC, 1908).

The Retort House was constructed of brick, and consisted of a furnace supporting a series of clay retorts on brick benches. Each bench contained 15 retorts, and there were 64 benches, for a total of 960 retorts (Perris and Company, 1859 and Harper's, 1862). The retorts were heated by lighting fires below them, which in turn heated the coal inside the retorts in the absence of ambient air. The retort gas was passed through a series of processes to recover byproducts and impurities. Once the raw gas was driven from the coal, it was drawn from the retort and through a hydraulic main located on the roof of the Retort House. The hydraulic main was sealed and contained water, which permitted steam, tar vapors, and some ammonia compounds to settle out before continuing to the condensers. From the hydraulic main, the gas traveled to the air condenser, located immediately east of the Retort House. The air condenser cooled the gas by indirect contact cooling water to remove heavy tars and water vapor. Tar byproducts were siphoned off at this stage, for reuse or sale. The gas was then fed through a second, water-cooled condenser, located just east of the air condenser, to remove additional impurities. Next, the gas flowed through an exhauster, situated south of the Condensers, which blew the gas through the Scrubber or Washer (located east of the Condensers) to remove ammonia and some sulfur. The Scrubber was a cylindrical structure filled with coke; materials in the Scrubber were sprayed with water, and these water soluble impurities settled to the bottom of the chamber, where they were collected (Harper's, 1862 and Hartgen, n.d.).

The final stage in the removal of impurities was the removal of sulfur. Sulfur was removed from the gas stream by the formation of calcium sulfate as the coal gas was passed through lime purifiers. The purifiers consisted of square tanks (eastern side of Area 3, see Figure 2) in which

stacked trays containing damp, powdered lime, were situated. The gas was forced up from beneath the trays, in the process removing sulfurous compounds like hydrogen sulfide through reaction with the calcium in the lime. At the West 18th Street Gas Works, a fresh lime house was attached to one side of the purifying house, while a foul lime house was located at the other end. The spent lime could then be sold for fertilizer (Harper's 1862, and Hartgen, n.d.).

From the Purifiers, the gas was metered and then passed into a storage holder, ready for distribution to the customers. The West 18th Street Gas Works began with only two gas holders (in Area 1), but by the turn of the twentieth century, there were eleven holders on four contiguous blocks.

A complete record of by-product quantities, reuse, sale, and disposal is not available. PSC reports began publication in 1908, after the West 18th Street Gas Works had essentially stopped producing gas. During the period that the West 18th Street Gas Works operated, there were no known published reports detailing byproduct output and sales. Typical residuals and byproducts produced at an MGP may include coal tar, ammonia, purifier wastes (calcium sulfate and/or spent ferric oxide impregnated wood chips), sulfur, coal ash and cinders. The disposal history of purifier residuals is unknown. The coal tar was sold as a byproduct, as was the sulfur. The coal tars could be distilled to produce ammonia liquors, light oils, creosote oils, anthracene oils, and pitch. The light oils could be further rectified yielding benzol, solvent naphtha, carbolic acid, and anthracene (Collins, 1934).

2.5 Previous/Other Investigations

Prior to and independent of the SCS, site investigations were performed at several of the present-day properties within the former MGP. The results of these investigations are summarized below by property location and or owner.

2.5.1 Site Investigation of Block 689, Lot 17

MTA performed a Phase I and Limited Phase II environmental site investigation in 1998 on Block 689, Lot 17 (MTA, 1998b and MTA, 1998c), AKRF prepared a summary document, *Soil Sample Summary and Result for Soil Safe Criteria* in April 1999 (AKRF, 1999), and Blasland, Bouck and Lee, Inc (BB&L) prepared a *Remediation Work Plan* in November, 1999 (BB&L, 1999). This investigation was conducted to characterize the subsurface soil quality and determine acceptance of the soil by a facility in New Jersey (Soil Safe) where soil excavated during planned future site development would be disposed. Towards this goal, paired soil borings were excavated at each of 18 locations to depths of approximately 20 feet below ground surface (ft bgs). During the investigation, subsurface soil samples were collected from two depth intervals (0 to 8 ft bgs and 8 to 20 ft bgs) from each boring. As ground water generally occurred

at 8 to 11 ft bgs, this sampling scheme was developed to evaluate soil quality above the water table and that below the water table. The soil recovered from each interval for each soil boring pair was composited and analyzed for metals using the Toxicity Characteristics Leaching Procedure (TCLP), polychlorinated biphenyls (PCBs), pesticides, VOCs, and total petroleum hydrocarbon (TPH). The sample interval was specific for the analysis being performed. The soil analytical results were compared to the appropriate New Jersey waste acceptance thresholds, Resource Recovery and Conservation Act (RCRA) toxicity criteria for waste acceptance purposes. The analytical results were also compared to NYSDEC RSCOs.

The findings of the investigation are summarized below:

- Total VOCs were detected at concentrations above the disposal facility acceptance criteria of 500 milligrams per kilogram (mg/kg) total in 8 of 66 composite samples;
- TPH concentrations exceeded New Jersey 30,000 parts per million (ppm) threshold for TPH in only 1 of 139 composite samples;
- No hazardous waste for TCLP Metals;
- PCBs and pesticides were not detected at above the disposal facility acceptance criteria;.
- A UST was identified at one soil boring location in the central portion of Block 689;
- VOCs and polycyclic aromatic hydrocarbons (PAHs) were detected in soils across the property;
- VOCs from 0 to 8 ft bgs did not exceed NYSDEC RSCOs for individual compounds detected;
- One PAH sample from 0 to 8 ft bgs exceeded the NYSDEC RSCO for Total SVOCs of 500 mg/kg. This sample was collected from a soil boring pair located on the western end of Block 689;
- Total VOC concentrations exceeded the NYSDEC RSCO for Total VOCs of 10 mg/kg in samples collected from 8 to 20 ft bgs in seven soil boring pairs. The borings were primarily located in the central and western portions of Block 689;
- Total PAHs were detected at concentrations exceeding the NYSDEC RSCO for Total SVOCs of 500 mg/kg in three composite samples collected from between 8 and 20 ft bgs in three soil boring pairs located in the central and western portions of Block 689;
- Worldwide Geosciences, Inc. performed an interpretive characterization of TPH results from 71 samples collected on the eastern portion of Block 689 to fingerprint the source materials contained in the soil samples. The conclusion was that 56 of the 58 interpretable chromatograms were indicative of coal tar or MGP residues; and

- BTEX and PAHs were detected in all three groundwater samples collected on Block 689. The highest BTEX and PAH concentrations exceeded NYSDEC AWQSGVs for Class GA water in one groundwater monitoring well located near the northwest corner of Block 689. Benzene and naphthalene exceeded the standards in one monitoring well located at the eastern end of the site, and only benzene exceeded the standards in one well located near the southwest corner of the Block.

2.5.2 Geotechnical Investigation Block 689, Lot 17

In July 1998, Melick-Tully and Associates, P.C. (MTA) conducted a geotechnical investigation and limited Phase II environmental investigation at the property. The geotechnical engineering investigation was performed in support of design of a distribution center, which was planned for construction at the property at Block 689, Lot 17 (i.e., that portion of Area 3, the entire block bounded by West 17th and West 18th Streets and 10th and Route 9A).

The Phase II investigation was performed to assess soil quality to evaluate disposal options for soil that would ultimately be excavated as part of the site redevelopment. Two soil samples were collected from each of the intervals 0 to 5 ft bgs, 8 to 12 ft bgs, and 15 to 20 ft bgs. The samples were analyzed for the full suite RCRA constituents using the TCLP. The results of these investigations are summarized below.

Geotechnical Investigation Findings:

As presented in the report, the subsurface conditions encountered at the site consisted of the strata described listed below, presented in order of increasing depth:

Surface Materials: Surface materials at the site generally consisted of a thin (less than six inches) asphalt/stone base course layer. The asphalt thickness is generally on the order of two to three inches in thickness. The "stone" base course is variable, consisting of varying mixtures of clean stone, cinders, and silty sand.

Fill: Underlying the surface materials is a layer of a heterogeneous mixture of native and non-indigenous anthropogenic material ranging in thickness from roughly 20 feet in the eastern portions of the site to roughly 40 feet in the western portions. The fill consists of a heterogeneous mixture of silt, sand, gravel, and cinders, with frequent obstructions, particularly in the upper five to ten feet. Based on fragments collected in the split spoons or captured on the auger flights, the obstructions appeared to consist primarily of concrete and brick rubble. Frequent intermixing of organic silt was also encountered in the lower portions of the fill.

The fill is highly variable in consistency, ranging from very loose to very dense, although the higher Standard Penetrations Test results (i.e., N-values) appeared to be mostly due to the presence of obstructions.

Corrosivity testing results of two fill samples indicated moderately corrosive resistivity levels and moderately corrosive levels of sulfates. Sulfides, redox potential, and pH indicate low corrosivity potential.

Organic Silt: A layer of very soft to stiff clayey organic silt is present below the fill across most of the site, although several of the borings in the eastern portion of the site did not encounter any organic silt. One Atterberg Limits test was conducted on a sample of the organic silt indicated that this lithology was of low to moderate plasticity with a plastic limit of 19 percent and a liquid limit of 37 percent.

The organic silt is generally five to ten feet thick, ranging occasionally as thick as 15 to 20 feet. The bottom of the organic silt generally ranges in depth from approximately 20 to 25 feet below the ground surface in the eastern portion of the site to approximately 50 feet below the ground surface in the western portion.

Silty Sand: Silty sand typically underlies the organic silt (or the fill where organic silt is not present) and extends to the top of bedrock. The sand is generally loose to medium dense in consistency and is stratified with varying amounts of silt and generally low percentages of gravel. Occasional zones were encountered where the percentage of gravel in this stratum exceed the percentage of sand.

Based on the behavior of the drill rig while conducting the explorations, cobbles and/or boulders were believed to be present throughout this stratum, particularly below a depth of approximately 70 to 80 feet. High N-values reported at these depths are believed to be a result of cobbles/and or boulders.

Interbedded Clayey Silt: Discontinuous layers of medium to stiff clayey silt with varying amounts of fine sand were encountered at varying depths in many of the test borings within and above the silty sand stratum. The encountered thickness of these interbedded layers generally ranged from 5 to 15 feet.

Schist Bedrock: - Schist bedrock underlies the silty sand stratum at depths ranging from approximately 60 to 100 feet below the ground surface. The top of rock is generally shallowest in the eastern portion of the site (at depths ranging from 60 to 70 feet below the ground surface) and deepest in the central portion of the site (at depths ranging from 90 to 100 feet below the ground surface).

The upper one to five feet of the schist bedrock is generally highly to completely weathered and was occasionally penetrated several feet with hollow stem auger drilling equipment. Generally, below this depth, the schist is slightly to moderately weathered with a relatively high Rock Quality Designation, RQD (generally above 70 to 80 percent). At one location, however, in the center of the site (Boring B-13), the boring was advanced approximately 20 feet into the rock using hollow stem augers without obtaining refusal.

Phase II Findings:

- Groundwater was typically encountered at depths ranging from approximately 8 to 11 ft bgs. Due to the close proximity of the Site to the Hudson River, MTA concluded that tidal fluctuations in groundwater depths should be anticipated, particularly in the western portion of the Site;
- Groundwater table is relatively flat and flows to the west-southwest;
- The permeability of the soil that comprise the water table aquifer were estimated to range from 0.1 to 1.3 ft per day;
- No analytes were detected at concentrations that exceeded their respective RCRA Toxicity Criteria (TC);
- VOC and or SVOCs were detected in groundwater at concentrations that exceeded their respective NYSDEC AWQSGVs in monitoring wells MW-2, located in the central western-most portion of Block 689; and
- Naphthalene was detected in groundwater at a concentration that exceeded its NYSDEC AWQSGVs in monitoring wells MW-3, located in the central eastern-most portion of Block 689.

2.5.3 Site Investigation Tax Block 690, Lot 12

On October 16 and 17, 2002, Blasland, Bouck, and Lee, Inc. (BB&L, 2002) conducted a preliminary site investigation at Block 690, Lot 12. The subject of the investigation was the property that comprises the western-most portion of the block, which is located between West 18th and 19th Streets and between 10th Avenue and Route 9A.

The investigation entailed advancing eight soil borings and four temporary well points. Material indicative of urban fill was encountered to a depth of 4 ft bgs. Native materials included gravelly sands, sandy silts, and clayey sands and were described intermittently between 4 feet and 16 ft bgs. Groundwater was encountered at 7 feet to 8 ft bgs. Slight to strong odors were detected at all locations between 2 and 12 ft bgs. NAPLs were not observed in any borings.

BB&L concluded that the types of VOCs detected during the investigation (soil and groundwater) were indicative of gasoline/kerosene products, and MGP by-product tars. The highest benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations were detected adjacent to and down gradient of a series of former underground storage tanks (USTs) used to store petroleum products, including gasoline and fuel oils and north of the MGP Retort House located on Block 689, due south of the property investigated.

BB&L also concluded that the semi-volatile organic compounds detected in both soil and groundwater (including phenolic compounds and PAHs) was indicative of MGP-related tars. The highest PAH concentrations were detected in the same soil and groundwater samples, as were the BTEX compounds.

BB&L recommended supplemental investigation activities, including the installation of borings to delineate the horizontal and vertical extent of BTEX and PAH impacted soil, to determine the presence of the clay layer, and to confirm that NAPLs are not present at the property. BB&L also recommended the installation of additional monitoring wells to delineate the horizontal and vertical extent of BTEX, phenolic and PAH compounds, to evaluate groundwater flow direction, and to evaluate hydrogeologic properties.

2.5.4 Site Investigation Tax Block 715, Lot 59

The building that occupies this property has been utilized as a parking garage since its construction in 1915. Prior to that, the property contained two 85-foot diameter gas holders, which were used to store gas produced by the West 18th Street Gas Works that operated along the west side of 10th Avenue. In 1993, six USTs that were used as part of the garage operations were removed from this property. The USTs included five 550-gallon tanks used to store gasoline located under the northeast corner of the garage building and one 4,000-gallon tank used to store diesel fuel was located along the west side of the building. No evidence of soil contamination was reportedly observed during the tank removals.

In early 2000, Langan Engineering (Langan) conducted a Phase I Environmental Site Assessment (ESA). Based on the findings from this assessment, Langan identified several areas of concern, which included the locations of the former USTs and a hydraulic lift system.

In June 2001, during building renovation activities being performed by Verizon, the then and current building tenant, petroleum contaminated subsurface soil was encountered below the concrete building foundation slab. The soil was screened for total VOCs using an organic vapor meter equipped with a photoionization detector (PID). Total VOCs measured with the PID ranged in concentration from 16 ppm to 634 ppm. In addition, samples were submitted to

Worldwide Geosciences, Inc of Houston, Texas for product fingerprint analysis. The result of the fingerprint determined the source of the contamination to be gasoline.

In response to this finding, Verizon notified the NYSDEC, which assigned Spill No. 01-03363 to the property. The petroleum-contaminated soil was excavated at that time.

Based on the PID screening results, EnviroTrac sampled the contaminated soil, on behalf of the property owner. The analytical results for these samples showed that the concentrations of several VOCs and SVOCs exceeded their respective NYSDEC RSCOs.

In August 2001, EnviroTrac performed a Subsurface Investigation at the property. During the investigation 12 soil borings were advanced using GeoProbe drilling methods. One soil and one groundwater sample was collected from each boring. The samples were analyzed for VOCs and SVOCs.

The result of this investigation showed that VOCs and SVOCs were detected at concentrations above their respective NYSDEC RSCOs in 9 of the 12 borings. The VOCs detected at elevated concentrations included benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX), isopropylbenzene, naphthalene, n-propylbenzene, methyl tert-butyl ether (MTBE) and 1,2,4- and 1,3,5-trimethylbenezenes. Two samples contained total VOCs at concentrations above the NYSDEC RSCO for total VOCs of 10 ppm. One or more of six SVOCs, all PAHs, were detected at elevated concentrations in eight of the 12 soil samples. Total SVOCs concentrations exceeded the NYSDEC RSCO for total SVOCs of 500 ppm in soil from two soil borings.

All groundwater samples contained VOCs at concentrations that exceeded their respective NYSDEC AWQSGVs. The VOCs detected at elevated concentrations at least once, were BTEX; isopropylbenzene; 1,2,4- and 1,3,5-trimethylbenezenes; n-propylbenzene and naphthalene. Benzene was detected at elevated concentrations in all groundwater samples.

Based on the findings of the investigation discussed above, an additional 60 cubic yards of contaminated soil were excavated from the property and disposed off-site.

Subsequently, eight permanent groundwater monitoring wells were installed at the property. Sampling of the wells was performed by EnviroTrac periodically between 2002 and May 2005. Analytical results of these sampling events, were similar to those previously detected.

2.5.5 Route 9A Reconstruction Project

The western end of the West 18th Street Gas Works was sampled by AKRF, Inc. as part of the Route 9A reconstruction project (AKRF et al, 1994). Six test borings were drilled between the

former MGP and the Hudson River and piers, three during Phase 1A and three during Phase 1B of the reconstruction. One monitoring well was installed two blocks south of the former MGP and one well was installed approximately two blocks north of the former MGP during Phase 1A. Analytical results for samples collected from these locations, which were all in the vicinity of the former MGP, indicated the following:

Soil

Heavy metals and PAHs were detected in most soil samples at concentrations below Extraction Procedure (EP) toxicity criteria. Total lead was detected in Site soils below the EP toxicity criteria and below NYSDEC RSCOs. VOCs, Cyanide, and TPH were detected sporadically at low concentrations in limited areas of the Site.

Groundwater

A groundwater sample from a monitoring well located mid-block along West 16th Street contained BTEX and PAHs concentrations of 1.0 mg/L and 0.063 mg/L, respectively. An additional groundwater sample collected from a monitoring well located two blocks south of the Site contained BTEX and PAHs concentrations of 132 mg/L and 63 mg/L respectively. This sample also exhibited the presence of many heavy metals.

2.6 Environmental Records Search

Files at Con Edison and the Department of City Planning were searched for records of additional site history and information on documented contaminant release sites. A freedom-of-information request was filed with the NYSDEC for information on potential waste sites (e.g., petroleum spill sites, hazardous waste sites, etc.) within and in the vicinity of the investigation area.

Summary Documented Spills in the Vicinity of the Site

Twenty-three petroleum spills were within approximately one-quarter mile of the Site, and an additional thirty petroleum spills were within approximately one-quarter to one-half mile of the Site, as reported in the Leaking Storage Tank Incident Reports (LTANKS) section of the environmental database search. The location of and distance/direction from the Site the LTANKS are as follows:

Equal/Higher Elevation	Address	Distance (mile)/Direction from the Site
528 West 19th Street/Manhattan	528 West 19th Street	0-1/8 ESE
555 West 17th Street/Manhattan	555 West 17th Street	0-1/8 SSE
501-513 West 19th Street	513 West 19th Street	0-1/8 ESE
Mendon Leasing Corporation	515 West 18th Street	0-1/8 SE
GETTY 58542	152 Tenth Avenue	0-1/8 E
152-156 Tenth Avenue/Manhattan	152-156 Tenth Avenue	0-1/8 E
535 East 21st Street	535 East 21st Street	1/8-1/4 NE
507 West 21st Street	507 West 21st Street	1/8-1/4 ENE
Pier 57- 11th Avenue	Pier 57/11th Avenue	1/8–1/4 S
NYC Transit Authority/Manhattan	West 15th Street/ 11th Avenue	1/8–1/4 S
193 10th Avenue	193 10th Avenue	1/8–1/4 ENE
Pier 57- Westside Highway	Pier 57/17th Street	1/8–1/4 S
Auto Care West	458-460 West 18th Street	1/8–1/4 SE
19 11th Avenue/NYCTA-Hudson	19 11th Ave	1/8–1/4 S
11 Eleventh Avenue	11 Eleventh Avenue	1/8–1/4 S
Freedman Cutouts	444 West 17th Street	1/8–1/4 SE
562 West 23rd Street/Manhattan	562 West 23rd Street	1/8–1/4 NNE
Edison Parking Garage	527 West 23rd Street	1/8–1/4 NE
Mendon Leasing Corporation	527 West 23rd Street	1/8–1/4 NE
Tank failed Mendon Leasing	527 West 23rd Street	1/8–1/4 NE
Menden Leasing	523 West 23rd Street	1/8–1/4 NE
505 West 14th Street	505West 14th Street/ 10th Ave	1/8–1/4 S
501 West 14th Street/ SUNOCO	501 West 14th Street	1/8–1/4 S

Additional information on spills and releases is presented in the Site History Report. It is noted that all LTANKS sites are located to the north, south, or east of the former MGP site. As the predominant groundwater flow direction in the fill unit was determined to be towards the west/southwest, many of these spills are upgradient of the Site.

2.7 Regional Geology/Hydrogeology

A U.S.G.S Quadrangle Map indicating the location of the Site is included as Figure 1. The geology beneath the site is based on data collected from two borings drilled as part of the Route 9A Reconstruction Project (AKRF, 1994).

According to the subsurface conditions encountered in the above-referenced borings, fill material is ubiquitous and consists of dredged river sediment, coal plant refuse, and construction debris in thickness of approximately 3 to 25 feet. Pockets of silt, sand and clay are found between the fill and bedrock (AKRF, 1994). Typical subsurface soils (fill) consisted of brown fine to coarse sand, with traces of silt and fine to medium gravel, brick, and ash fill to a depth of 13 ft bgs. Water was encountered at approximately 5 to 6 ft bgs. Fill materials encountered consisted of black slag-like material with brick-like material and glass from near the surface to approximately 3 ft bgs. Below the fill was light brown sand with silt and some gravel. Black-brown coarse to fine sand with abundant rock fragments and slight odor was encountered at approximately 9 ft bgs. Water was encountered at approximately 6 ft bgs. AKRF reports that in general, the overburden materials in the area consist of up to 35 feet of construction debris that may include brick, weathered schist, sand, silt, clay, stone, and wood above a 10 to 40 foot thick layer of organic silt above a layer of up to 50 feet of glacial till (AKRF, 1994).

The Hudson River forms the western boundary of the Site as it exists today. The Hudson River is a Class I surface water body adjacent to the West 18th Street Site (NYSDEC, 2001). Manhattan's drinking water is obtained from reservoirs located greater than 25 miles north of the city. No drinking water supply wells were identified in the vicinity of the Site (EDR, 2002 and NYSDOH, 1982). Old stream channels and buried utilities may act as preferential pathways and exert some influence on the occurrence and movement of shallow groundwater in the region. Depths to groundwater at the western end of the former West 18th Street Gas Works are approximately 5 to 6 ft bgs (AKRF, 1994), and depths to groundwater on Block 689 are approximately 8 to 11 ft bgs (MTA, 1998a). It is noted that differences in groundwater depths between those measured by AKRF and MTA likely reflect seasonal and daily changes in ground water elevations in response to seasonal and daily tidal fluctuations in water elevations in the Hudson River.

3 SITE CHARACTERIZATION SCOPE OF WORK

This section provides a description of the methodologies used during the field investigation of the West 18th Street former MGP Site. The location and number of samples taken, along with the corresponding analytical parameters, are presented in the following sections. Descriptions of all field activities conducted during the SCS are presented by field task and/or environmental media. The locations of the SCS samples are shown on Figure 4. Specific tasks performed during the SCS consisted of the following:

- Underground utility clearance and geophysical survey;
- Community air monitoring;
- Subsurface soil sampling;
- Test pit excavation;
- Soil boring installation;
- Monitoring well installation and development;
- Groundwater sampling;
- Soil and groundwater analysis;
- Quality assurance/quality control sampling (QA/QC);
- Investigation residuals management; and
- Site survey.

Due to delays posed by the owners of various properties, associated access restrictions, subcontractor availability and permit constraints, the field work was executed in a non-contiguous manner, beginning in April 2004 and extending until December 2005.

Ambient air, indoor air, and subsurface gas sampling was conducted at two properties during the SCS. The first was within Area 2, at Block 690, Lot 46. The second was conducted within Area 5, at Block 691, Lot 1. Separate reports were prepared and submitted independently for each investigation, and these activities are not discussed further in this SCS Report.

3.1 Underground Utility Clearance

Prior to initiation of intrusive investigation activities, sample locations were cleared in accordance with Con Edison's utility clearance procedures. Due to the highly developed nature of the Site and a review of available utility plates, subsurface utilities including natural gas, electric, and steam lines, telephone lines as well as fiber optic cables, water lines, and sewers, were located. The New York City "One Call" organization was contacted to request utility mark outs in accordance with Code 753, a minimum of three working days prior to start of the fieldwork. All mark outs by Code 753 participating companies were complete in the specified timeframes in advance of all field intrusive activities. Renewal calls were made in accordance with the timeframes allowed in the regulations.

A geophysical survey was also conducted using ground penetrating radar, electromagnetic conductivity, a magnetometer, and a pipe locator within an approximate 10-foot radius of each of the proposed sample locations (whenever possible). Manholes and other utility boxes (e.g., gas valve box) were opened and inspected in order to confirm or ascertain the depth to and orientation of the subsurface utilities. This non-intrusive investigation provided an added level of assurance with respect to confirming utilities marked out by the New York City One Call group, to trace utilities onto the private properties, and/or to identify anomalous areas where private utilities or other unknowns may be present.

As an additional precaution to ensure worker safety and to prevent damage to potential subsurface utilities, proposed boring locations were cleared by non-mechanical means (e.g., hand digging, and vacuum extraction). Soil was excavated, typically to a maximum of five feet below grade, by non-mechanical means to physically confirm the presence/absence of subsurface utilities at each of the proposed boring locations. If proposed sample locations were determined to be too close to subsurface utilities to safely conduct the field investigations, the location was moved to another area to achieve the same investigative objective. Alternatively, special precautions were taken (e.g., coordinating with Con Edison's Gas Operations Group and exposing the utility) when working in close proximity to a high pressure gas main. Concrete and asphalt materials were saw cut prior to excavation. Soil excavated from the pilot holes was stored on plastic poly sheeting adjacent to the area and then used as backfill. Temporary repairs using asphalt cold patch, concrete, and/or steel road plates were made as a means to secure the openings until in-kind, final repairs to the surface could be made.

3.2 Community Air Monitoring

The site-specific Health and Safety Plan for the SCS field investigation includes a Community Air Monitoring Program (CAMP) that was implemented during all ground intrusive activities. Community air monitoring was conducted using real-time, hand-held monitoring instruments (Mini-RAE organic vapor meter equipped with PID for volatile organic compounds and a MIE DataRam for airborne particulates). Two sets of air monitoring equipment were calibrated daily and set up at upwind and downwind stations near each invasive activity. If concurrent invasive activities were in close proximity, the two stations were sufficient to monitor the ambient air. If the invasive activities were distant, two sets of equipment were utilized for each activity.

3.3 Subsurface Soil Sampling

3.3.1 Exploratory Test Pits

In general, exploratory test pits were used to locate and investigate remnant MGP structures. The primary objectives of the exploratory test pits were to visually inspect and determine the

presence or absence of historic MGP features, such as ring wall structures of former gas holders or the foundations of supporting operational buildings, to identify the presence of MGP-related impacts (such as the presence of non-aqueous phase liquids), and to evaluate subsurface conditions in the vicinity of these structures.

The exploratory test pits were excavated using a backhoe with a qualified OSHA-certified operator. Asphalt surfaces were saw-cut prior to the excavations. Using a bucket attachment on the backhoe, soils were removed in lifts of one to two feet at a time to accurately correlate the soils brought to the surface with the depth from which they were obtained. The exploratory test pit was left open only for the amount of time needed to log and photo-document conditions within the test pit (i.e., sidewalls, presence of ring wall, foundation construction etc.), to physically inspect the excavated materials, screen with a PID, and to collect samples for laboratory analysis. All excavated materials were returned to the test pit and compacted with the backhoe bucket. Temporary patching was installed where necessary to minimize contact with the soil until such time that the final restoration to the surface could be made. In certain instances, the use of steel road plates was required.

3.3.2 Soil Borings

Prior to excavating soil borings, utility clearance was performed at each location in accordance with Con Edison's subsurface utility clearance procedure. Typically, locations were saw cut and shallow soil samples were obtained using a decontaminated steel spoon or a hand auger.

After confirming the absence of subsurface utilities, drilling at each soil boring location was performed using either hollow stem auger (HSA) or direct-push "DP" (e.g., GeoProbe™) drilling methods. Using these methods soil was continuously sampled from approximately 5 ft bgs (i.e., below the interval excavated by hand during utility clearance) to the final depth. Using HSA methods, soil samples were obtained with a standard 2-inch diameter split-spoon sampler in accordance with the Standard Penetration Test (SPT) Method (ASTM D-1586). The SPT method entails recording the number of blows required to advance the split-spoon sampler the last 12 inches of the split-spoon using a 140 pound weight falling freely for 30 inches. A four-foot long by 2-inch diameter stainless steel macro core sampler containing a clean polyethylene liner was used to collect soil with the DP drilling method.

The retrieved soil was characterized by the field geologist for physical properties including lithology, grain size, and moisture content, and for physical evidence of contamination, including staining, sheen, light non-aqueous phase liquid (LNAPL), dense non-aqueous phase liquid (DNAPL), and/or odors, etc. Each sample was field screened with a PID for Total VOCs immediately upon opening the sampler. Soil was classified in accordance with the Unified Soil

Classification System (USCS). All field observations and measurement were recorded in a bound field notebook.

Based on field screening of the soil cores, soil samples were collected for chemical analysis from each boring, in general accordance with the following sampling strategy:

(1) From the six-inch interval within the vadose zone that exhibited the strongest evidence of contamination (if any), such as staining, sheen, odors, elevated VOCs based on PID readings, etc.;
(2) At the soil/water table interface;
(3) From the 6-inch interval within the saturated zone that exhibited the strongest evidence of contamination (if any), such as staining, sheen, odors, elevated VOCs based on PID readings, etc.;
(4) From the 6-inch interval above the top of the first low permeability unit encountered (if any) in the soil boring; and/or
(5) In borings where contamination was apparent based upon field observations, from a 6-inch interval of apparently clean material below contaminated soil (to provide data for vertical delineation).

If there was insufficient sample volume to fill the sample jars for chemical analyses from the 6-inch interval, additional soil was collected from the split-spoon sampler within the same 2-foot interval. Samples for VOCs were collected first.

Samples were transferred from either the split-spoon sampler or macro-core samplers directly to laboratory-supplied sample jars. The jars were sealed, labeled and placed in a cooler containing ice for shipment to Chemtech Laboratories, located in Mountainside, New Jersey for analysis. The coolers were shipped under chain of custody protocols. The samples were analyzed as described in Section 3.6 of this report.

Retrieved drill cuttings were returned to the borehole if not grossly contaminated. Soil cuttings containing free product or staining were containerized in 55-gallon steel drums and managed as described in Section 3.8 of this report. Drums were labeled on a daily basis.

During setup of the drill rig at each location, a polyethylene plastic liner was placed under the working platform of the drill rig to contain any potential spills and drips resulting from equipment failure or leaks of motor oil, hydraulic fluid, and/or diesel fuel. Soil cuttings generated during drilling and soil samples that are not submitted for analysis were placed in DOT-approved 55-gallon drums and handled as described in Section 3.8 of this Report. Once sampling was complete, the borehole was then backfilled and sealed with cement-bentonite grout.

3.4 Monitoring Well Installation and Development

To accommodate each overburden aquifer monitoring well (designated with "A") installation, a soil boring was first completed using a HSA drill rig with 4.25-inch inside diameter (ID) augers. After advancing a soil boring to the desired depth, a well was installed in the boring. All wells were constructed using 2-inch diameter polyvinyl chloride (PVC) casing and 10-feet long 20-slot screen. The screen was installed such that it straddled the water table. In addition, a two-foot long sump for the collection of DNAPL, if any was encountered during drilling of the boring, was installed at the bottom of the well screen.

Semi-confined or confined monitoring wells (designated with a "B") were installed below the low permeability silty/clay unit. In order to prevent vertical migration of contamination from the vadose zone to deeper intervals via the soil boring/monitoring well, a 6-inch diameter steel casing was installed in the borehole to a depth of at least over two feet into the clay. The annulus between the steel casing and borehole was filled with grout from the base to grade using a tremie pipe. The grout was allowed to cure for a minimum of 24 hours prior to resuming drilling to final well depth inside the steel casing. The monitoring well construction was similar to that used for the overburden monitoring wells, with the exception that the top of the screen was set within one foot of the bottom of the low permeability unit.

Following well installation and prior to sampling, new wells were developed using surging and pumping. The wells were pumped at low flow rates to minimize the volume of development water generated, while also ensuring that they are sufficiently developed to achieve the target water quality. Development was not initiated sooner than 24 hours after well installation. Prior to development, the wells were checked for presence of LNAPL and/or DNAPL using an electronic oil/water interface probe. Wells that contained LNAPL and/or DNAPL greater than 1/16 inch were not developed.

Groundwater generated during well development was performed until a minimum of three well volumes was evacuated from each well and the discharge water was reasonably free of visible sediment, the field parameters have stabilized. Development was continued up to a maximum of two hours in efforts to achieve turbidity measurements below the NYSDEC goal of 50 Nephelometric Turbidity Units (NTUs). The well development observations and field measurements were recorded in a bound field logbook and well development log form.

All monitoring wells were developed in September 2005. The wells were pumped with a submersible pump and dedicated polyethylene tubing at low flows to minimize the volume of development water generated, while also ensuring sufficient development to achieve the target water quality. Properly decontaminated and/or dedicated equipment was used during development. Prior to development, the wells were checked for LNAPL and/or DNAPL.

Field parameters monitored during well development included temperature, pH, conductivity, and turbidity. Parameters were considered stabilized upon successive readings for temperature within 0.1ºC, pH levels within 0.1 standard unit (S.U.), conductivity levels within 5 percent, and turbidity levels within 10 percent (for values greater than 1 NTU).

3.5 Groundwater Sampling

Prior to groundwater sampling an electronic oil/water interface probe was used at each well to measure static water levels, depth to water, and depth to the well bottom (to check for possible siltation). The oil/water interface probe was also used to confirm the absence of measurable separate-phase product. In accordance with the SCS Work Plan, groundwater samples were not collected from any wells containing of LNAPL and/or DNAPL of greater than 1/16 inch.

The well diameter and the length of water column in each well were used to calculate the volume of water in the well. A peristaltic pump and dedicated polyethylene tubing were used during sampling to minimize turbidity and purge water volumes. Using this method, water was drawn through the well screen from the formation at a flow rate that was equal to or less than the natural well recharge rate. A minimum of one well volume was required to be removed with the low flow method, assuming stabilization of field parameters was achieved, as the standing water column in the well above the screen zone was not drawn into the screen and removed, therefore, need not be purged from the well. Field parameters consisted of pH, temperature, conductivity, and turbidity. Additional parameters that were recorded in the field at selected wells included oxidation-reduction potential (ORP) and dissolved oxygen (DO). Parameter stabilization is described in the USEPA Standard Operating Procedure (SOP) #GW 0001.

Purge water and other IDW were containerized in DOT-approved 55-gallon drums and disposed off-site at a permitted waste disposal facility, as described Section 3.8 of this report.

After purging was complete, groundwater samples were collected directly from the polyethylene tubing discharge into laboratory-supplied sampled bottles containing appropriate preserving agents. Collected samples were stored in iced coolers and shipped under chain-of-custody procedures to the laboratory for analysis.

3.6 Soil and Groundwater Analyses

The soil and groundwater samples collected during the SCS were analyzed for:

- VOCs by USEPA SW-846 Method 8260B;
- SVOCs by USEPA SW-846 Method 8260C;
- Metals (Priority Pollutant List – PPL) by USEPA SW-846 Method 6010B and 7471A;
- Total and Amenable Cyanide by USEPA SW-846 Method 9012A;

- Herbicides by USEPA SW-846 Method 8151;
- Pesticides by USEPA SW-846 Method 8081A; and
- PCBs by USEPA Method 8082.

All soil, groundwater, and waste classification samples were analyzed by Chemtech Laboratories of Mountainside, New Jersey in accordance with the NYSDOH's Analytical Services Protocol (ASP). Selected soil samples were also subject to pesticides, polychlorinated biphenyls (PCBs) and forensics analysis. Pesticides and PCBs were analyzed fusing USEPA Methods 9010 and 9012A , respectively. Forensics analysis was performed by Meta Environmental, located in Watertown, MA. The forensics analysis entailed solvent extraction of the samples, followed by analysis of the extractant fluid by gas chromatography with a flame ionization detector (GC/FID). The resulting chromatogram was then interpreted by comparisons to a library of chromatograms of known source materials.

3.7 Quality Assurance / Quality Control

Data quality objectives are qualitative and quantitative criteria, which specify the quality of data required to the objectives outlined in Section 1.2 of this report. All analytical data were validated independently by TRC. The review criteria used for the SC investigation data are from following United States Environmental Protection Agency, Region 2 documents:

- Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999, Validating Volatile Organic Compounds by SW-846 Method 8260B;
- SOP Number HW-22, Revision 2, June 2001, Validating Semi-Volatile Organic Compounds by SW-846 Method 8270;
- SOP Number 23B, Revision 1.0, May 2002, Validating PCB Compounds by SW-846 Method 8082; and
- SOP Number HW-2, Revision 11, January 1992, Evaluation of Metals Data for the CLP Program.

Data usability summary reports were prepared and are included in Appendix B of this Report.

3.8 IDW Management

The IDW generated during this SCS was managed and properly classified, transported, and disposed of at a pre-approved, licensed off-site facility. IDW was contained in DOT-approved 55-gallon drums. Drums containing IDW were labeled at the end of each day with the date, contents, contact information, job name/number, location origin, and drum count number.

Four types of IDW were generated as listed below.

- Concrete and asphalt;
- Soil cuttings;
- Aqueous wastes (decontamination fluids, well development and purge groundwater); and
- Plastic/personal protective equipment/bottleware/miscellaneous waste.

Concrete and asphalt was placed in 55-gallon drums and disposed of as a non-DOT regulated non-hazardous waste. PPE, used bottle-ware, and miscellaneous waste (such as plastic used for the staging of soil from test pits) were disposed of in 55-gallon steel drums as non-DOT regulated non-hazardous waste. Soil cuttings and aqueous wastes were managed separately in 55-gallon drums, sampled, and chemically analyzed for Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds, TCLP semi-volatile organic compounds, TCLP metals, RCRA Characteristics, and PCBs.

The drums were transported by Clean Earth of New Jersey, Inc., a licensed, Con Edison-approved waste hauler. The drums were disposed at properly licensed, permitted and Con Edison-approved disposal facility.

3.9 Surveying

The locations of all soil borings, test pits and groundwater monitoring wells were surveyed by a NYS-licensed surveyor. Other Site and proximal features, such as building corners, streets, etc., were also surveyed for purposes of establishing a base map for the SCS field investigation project. Horizontal locations were measured to an accuracy of 0.1-foot. Elevations were measured to an accuracy of 0.01-foot, and included the top of well casing and ground surface elevations. All horizontal coordinates were surveyed using the New York State Coordinate System (East), North American Datum (NAD) 83, as derived from the global positioning system (GPS). All vertical datum are based upon the North American Vertical Datum (NAVD) 88, as derived from GPS.

3.10 Site Restoration

All Areas of the Site properties that were disturbed by the SCS field investigation activities were restored to the satisfaction of the property owners.

3.11 Summary of Changes from the Approved SCS Work Plan

One test pit (TP-1) was planned in Area 1 across the ring walls of the two former gas holders in this portion of the Site. Due to the volume of vehicular traffic and parking in this area, a less intrusive approach was taken. Two smaller test pits (TP-1 and TP-1B) were completed manually based upon scaled drawings and field observations made during the utility clearance procedure

implementation. Brick structures consistent with remnants of ring walls were encountered in both test pits.

For all of the borings installed to a depth below a low permeability unit in order to achieve a target depth of 100 ft bgs or top of bedrock, whichever came first, the sampling strategy in the original work plan was modified to collect an additional sample directly below the bottom of the low permeability unit and at the bottom of each boring. Additional samples were collected at Con Edison's discretion to provide additional data in determining the horizontal and vertical extent of impacts.

Due to the presence of a multiple utility vaults and subsurface utilities, exploratory test pit TP-5 was deleted from the program.

The confined aquifer monitoring well MW-40B was deleted from the program based on the field observations that the confining unit was continuous/semi-continuous down to bedrock, and that there was no observed confined aquifer at the soil boring location.

Additional soil borings (SB-53, SB-54 and SB-55) were added to the field activities when Con Edison gained access to the building on West 19th Street (Block 690, Lot 42). The boring locations were advanced using direct push drilling techniques due to limited overhead clearance. As such, blow counts and SPT could not be recorded for the soil boring locations in this Area.

Due to overhead clearance constraints, all soil borings in Area 1 were completed using direct push techniques. As such, blow counts and SPT could not be recorded.

The boring locations SB-35 and SB-37 were deleted from the program due to restricted access at the original location and subsurface utilities and obstructions surrounding the location.

The boring locations SB-41 and SB-42 (western sidewalk along Route 9A) were deleted from the program due to subsurface utilities and electrical vaults on this block. One monitoring well (MW-41A) was planned for installation in Area 6 of the Site. However, this location could not be completed due to the presence of electrical vaults beneath the sidewalk.

At several soil boring locations where visible oil-like and/or tar-like material was encountered, a representative sample from the 6-inch interval of apparently clean material below the contaminated soil interval could not be collected. In these borings, there was too much potential carry down of the oil-like and/or tar-like material product into the clean interval for a representative clean sample to be collected.

At select boring locations, a temporary steel casing was installed into the low permeability unit to allow drilling to continue while minimizing the potential for carry down of contamination and/or NAPL.

4 RESULTS

This section discusses the field observations and analytical results for the samples collected during the SCS at the Site. The analytical results of the subsurface soil samples that were collected as part of the SCS are summarized and compared to the NYSDEC RSCOs specified in TAGM 4042. The analytical results of the groundwater samples are compared to NYSDEC AWQSGVs specified in the Technical and Operational Guidance Series 1.1.1 (TOGS), Class GA criteria.

Tables 4-7 through 4-35 organize the field observations and laboratory results into the six geographic areas of the Site (i.e., Areas 1 thought 6), as defined in Section 1.3 of this report. In general, all references to intervals in the tables and narrative are relative to feet below grade.

4.1 Data Usability Summary Reports and QA/QC Samples

In accordance with the Quality Assurance Project Plan (QAPP), QA/QC samples were collected periodically throughout the SCS investigation. The analytical results for the blind duplicate samples and the corresponding sample are presented in the data summary tables. Data usability summary reports (DUSRs) for all laboratory sample delivery groups are presented in Appendix B. The complete laboratory reports (NYSDEC ASP Category B deliverable format) are provided in Adobe Acrobat format on compact discs in Appendix C.

In brief, based on the data validation as discussed in the DUSRs, it is concluded that the data quality is usable for the purposes of satisfying the project objectives as summarized in Section 1.2 of this report.

4.2 Site-Specific Geology

Geology and hydrogeology was determined based on observations in the soil borings and test pits excavated across the Site. The stratigraphy and groundwater encountered at the Site is summarized below.

Stratigraphy:

Geology beneath the Site is consistent with that described by others (see Section 2.5.2) and consists of four primary stratigraphies, which are underlain by bedrock. The stratigraphic units, in order from shallowest to deepest, are: fill, upper sand, silty/clay and lower sand.

Fill Unit: The fill material consists of construction debris (brick, concrete, glass, wood timbers, ash, slag, rebar, etc.) co-mingled with brown to black, fine to coarse sand, gravel, cobbles and silt. The thickness of the fill is variable and was encountered from the near surface to depths

ranging from of 7 ft bgs to greater than 35 ft bgs. The apparent thickness is consistent with those reported during previous investigations.

Upper Sand Unit: In some areas of the Site, the fill is underlain by a layer of poorly sorted to well sorted sands. Where present, this unit ranges up to 29-feet thick. The sand is characterized by brown to gray, fine to coarse sand, trace silt, and trace gravel. This unit is generally absent from the eastern portion of the Site where the silty/clay unit was closer to or at the surface, prior to backfilling out from the shoreline.

Silty Clay Unit: The low-permeable silty clay is gray to black in color with intermittent peat lenses. The silty clay is likely a Holocene salt march deposit. Salt marshes were once prevalent along the Manhattan shoreline and, since the 1800s, have been filled and built over. This unit contains small marine shells, such as those from clams, mussels, and snails, etc, and organic material, such as decayed fibrous and non-fibrous plant materials. The upper surface of the clay-silt layer is irregular, but generally slopes down towards the Hudson River. Poorly sorted to well sorted sand, silty sand and gravel lenses were found within the silty clay unit, which are likely remnants of ancient stream channels or estuarine environments. In general, this unit pinches out to the east and is absent or discontinuous in the eastern portions of the Site and thickens to the west towards the Hudson River.

Lower Sand Unit: Underlying the silty clay is poorly sorted coarse to medium sand. In some areas of the Site, the lower sand unit is interbedded by silty sand, up to 13 feet thick.

A geologic cross section of the stratigraphic units extending across Areas 1 and 3 of the Site is presented as Figure 4A.

Groundwater

Groundwater occurs in the fill unit and occurs at depths ranging from 1.80 ft mean sea level (MSL) (MW-34A) to approximately -1.19 ft MSL (MW-12A). On October 11, 2005 a synoptic round of groundwater depth measurements was performed in all wells. Using the surveyed elevation of the measuring point on each well, the measured depths to groundwater were converted to elevations. The groundwater depth measurements and corresponding elevations are summarized in Table 4-36. The groundwater elevations were plotted on Figure 14 and contoured. Based on the plotted groundwater elevations shown on Figure 14, groundwater predominantly flows to the west/southwest in the fill unit towards the Hudson River. Based on variations in the depth to groundwater observed and or measured in various borings and monitoring wells during the course of the SCS, and in consideration of previous investigations conducted by others, it appears that groundwater levels are influenced by seasonal and daily tidal

fluctuations. In addition, there may be some localized groundwater mounding in the vicinity of MW-34A/Areas 2 and 5.

4.3 Area 1 – Summary of Findings

Area 1 has been designated as that portion of the Site where former Gas Holders No. 1 and No. 2 were located, along 18th Street between 9th and 10th Avenues (see Figures 2 and 4). At the time of the SCS activities, Verizon was using the property for vehicle parking and offices. This portion of the Site has been the subject of ongoing investigations of multiple leaking underground storage tanks, which are being conducted by the property owner. The results of these investigations to date are summarized in Section 2.5.4 of this report. The USTs were used to store gasoline, fuel oil and hydraulic oil.

A total of two test pits (TP-1 and TP-1B), seven soil boring locations (SB-1, SB-2, SB-3, SB-4, SB-5A, SB-5B, and SB-6) and two groundwater-monitoring wells (MW-5A and MW-5B) were completed in Area 1. These sample locations are shown on Figure 4. Table 4-7 presents a summary of the field work and observations. The following sections present a discussion of the field observations and analytical results for subsurface soil samples.

4.3.1 Summary of Field Observations

During excavation of the exploratory test pits, brick walls, which appeared to correlate with the approximate locations of the ring wall foundations for the two former gas holders were encountered at TP-01 (Gas Holder No. 2) and TP-01B (Gas Holder No. 1). While hand excavating for utility clearance at soil boring SB-6, a brick wall, which corresponded to the location of northwest portion of the ring wall for the former Gas Holder No. 2, was encountered. The apparent ring wall of former Gas Holder No. 1 was encountered in test pit TP-01B.

Note that all depths referenced on boring logs, tables, and subsequent text is relative to surface elevations (top of concrete slab) at each location. It is noted however, that the top of the concrete slab in the parking area of the building that occupies Area 1 is approximately 2.5 feet higher than street level at this location. It is believed that this elevated parking area is due to the placement of fill around the gas holder foundations during initial construction of the building. The source of this non-indigenous fill material (above street level elevation) does not represent soil conditions during operations of the former gas holders on this property.

No odors or staining were detected in subsurface soil encountered in exploratory test pit TP-01. In exploratory test pit TP-01B, gasoline-like odors were detected from 0 to 3 ft bgs. Wood timbers containing black staining were also observed in this test pit from 2 to 3 ft bgs.

Petroleum, fuel oil, gasoline, and/or MGP-related odors were observed in six of the seven soil borings (SB-2, SB-3, SB-4, SB-5A, SB-5B, and SB-6) completed in Area 1. It is noted that soil boring SB-1 in the southeastern portion of the property could not be advanced to the water table and, therefore, it is not known if the evidence of petroleum impacts also occur at this boring location. The most predominant odor detected was petroleum in five locations (SB-2, SB-4, SB-5A, SB-5B, and SB-6). The petroleum odors were detected consistently through the following depth intervals: 13 to 15 ft bgs in SB-2, 11 to 15 ft in SB-4, 10 to 22 ft bgs in SB-5A, 10 to 19 ft bgs in SB-5B, and 10 to 19 ft bgs in SB-6. These intervals all start at the approximate depth of the water table encountered at this parcel. This is indicative of a plume of petroleum contamination in groundwater across most of this parcel. A petroleum sheen was observed on the groundwater associated with soil samples from borings SB-4, SB-5A, SB-5B, and SB-6, and trace LNAPL was observed in SB-6. Gasoline odors were detected in subsurface soil at a depth interval of 0.8 to 2 ft bgs in soil boring SB-2, at a depth interval of 13 to 15 ft bgs in soil boring SB-3, and at a depth interval of 6.5 to 11 ft bgs in soil boring SB-4, which suggests a smear zone. Observations of gasoline odors are not consistent throughout the borings and do not indicate a consistent source. As noted previously, there is an ongoing groundwater investigation study at the Verizon building involving a gasoline release(s) from several former USTs.

MGP-related odors were only detected in SB-2 and SB-4 ranging from 15 to 20.5 ft bgs and 15 to 21 ft bgs, respectively. Both of these borings were excavated inside the footprints of former Gas Holders No. 1 and No. 2, respectively. It is noted that refusal at both of these locations was at approximately 21 ft bgs, which suggests that the holder bottoms are present at this depth. Soil borings MW-5B and SB-6 were excavated outside the former holders (e.g., in) were advanced to depths 42 ft bgs and 72 ft bgs, well below the 21 foot depth achieved at borings inside the holders. In addition, subsurface soil encountered in the upper 20 feet in these borings (i.e., outside the holder) was different than that inside the holder.

There were no observations of TLM in any of the seven soil borings completed in Area 1. OLM was only observed in soil boring SB-4 between 19 and 21 ft bgs, directly above the point of drilling refusal (i.e., the apparent holder bottom of Gas Holder No. 2). The affected soil in this interval also exhibited a very strong MGP-like odor, heavy black staining and an elevated PID reading of 3,124 ppm.

Depths to groundwater ranged from approximately 8 ft bgs in soil borings SB-4, 5 and 6 to approximately 13 ft bgs in soil borings SB-2 and SB-3. Groundwater elevations were 0.63 ft MSL and 0.84 ft MSL for MW-5A and MW-5B, respectively.

4.3.2 Analytical Results for Subsurface Soil

A total of thirty-three soil samples (from 30 discrete intervals plus 3 duplicates) and two groundwater samples were collected. The monitoring wells MW-5A and MW-5B were installed in soil boring locations SB-5B and SB-5A, respectively. Analytical results for VOCs, SVOCs and inorganics (metals and cyanide) for subsurface soil samples collected in Area 1 are summarized in Tables 4-8 through 4-10, respectively. Figure 5 presents a summary of constituents detected and a comparison with the NYSDEC RSCOs. Concentrations that exceeded their respective individual NYSDEC RSCOs have been bolded, italicized, and or colored in the summary tables and figures to for easy identification.

4.3.2.1 Volatile Organic Compounds

A total of 17 VOCs were detected in subsurface soil samples collected from Area 1. Six of these VOCs, namely benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene were detected at concentrations that exceeded their respective individual NYSDEC RSCOs. M/p-xylenes, ethylbenzene, and isopropylbenzene had the highest frequency of exceedances (approximately 12% of the number of samples analyzed), and m/p-xylenes and o-xylene were detected at the highest concentrations (320,000 ug/kg and 120,000 ug/kg, respectively) reported at location SB-6 in the 13 to 15 ft bgs interval. Strong petroleum-like odor, black staining, and trace LNAPL were also detected in this interval. The maximum PID reading in soil boring SB-6 was 3,520 ppm. None of the concentrations of the VOCs detected in the shallow subsurface soil samples collected from either of the test pits exceeded their respective NYSDEC RSCOs.

The concentrations of Total VOCs in soil samples SB-2 (19 to 20.5 ft bgs), SB-4 (19 to 21 ft bgs), SB-5B (11 to 12 ft bgs), and SB-6 (13 to 15 ft bgs) exceeded the NYSDEC RSCO of 10,000 ug/kg. As discussed above, soil borings SB-2 and SB-4 were excavated inside the former gas holder foundations. There was no evidence of Total VOC impacts to deeper soils in soil borings SB-5B or SB-6.

4.3.2.2 Semi-Volatile Organic Compounds

Twenty-three SVOCs were detected in subsurface soil samples. Eleven of the 23 SVOCs detected exceeded their respective NYSDEC RSCOs. Benzo(a)pyrene exhibited the highest frequency of exceedances (approximately 18%), followed by benzo(a) anthracene and chrysene (approximately 6%). Naphthalene had the highest detected concentration (220,000 ug/kg) in the soil sample SB-4 (19 to 21 ft bgs). This is consistent with the observation of OLM between 19 to 21 ft bgs in soil boring SB-4, which is located inside Gas Holder No. 2. None of the concentrations of the SVOCs detected in subsurface soil samples collected from the test pit exceeded their respective NYSDEC RSCOs.

The concentration of Total SVOCs in soil sample SB-4 (19 to 21 ft bgs) exceeded the NYSDEC RSCO of 500,000 ug/kg.

4.3.2.3 Inorganics

Twelve metals were detected in the subsurface soil samples. The concentrations of five metals, namely copper, lead, mercury, nickel, and zinc exceeded their respective NYSDEC RSCOs in one or more samples. The maximum concentration of lead of 2,240 mg/kg was detected in soil sample SB-2 (19 to 20.5 ft bgs). Mercury was detected at the highest frequency of exceedances (approximately 36%), although the maximum detected concentration was within one order of magnitude of its NYSDEC RSCO. Cyanide was sporadically detected and ranged in concentration from 0.66 mg/kg in soil sample SB-5B (21 to 22 ft bgs) to 190 mg/kg in SB-2 (19 to 20.5 ft bgs). There are no NYSDEC RSCOs established for total or amenable cyanide.

4.3.2.4 Fingerprint Results

Two soil samples (SB-4 [19 to 21 feet] and SB-6 [13 to 15 feet]) were submitted for fingerprint analysis from this Area. The soil sample from SB-4 contained monocyclic aromatic hydrocarbons (MAHs) and polycyclic aromatic hydrocarbons (PAHs) in a pyrogenic pattern. Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures, but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They are also formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials. The fluoranthene/pyrene ratio (1.10) and the dibenzofuran/fluorine ratio (0.55) suggested that the pyrogenic material was coal tar. The predominance of naphthalene and the high relative concentrations of MAHs indicated that the coal tar had been subjected to little or no weathering.

The soil sample from SB-6 contained a petrogenic substance. Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt. The petrogenic material in this sample was characterized by aromatic and aliphatic hydrocarbons eluting about from about hexane (3 minutes on the GC/FID fingerprint) to about tetradecane (22 minutes). The sample contained primarily alkylated benzenes. Some common petroleum products with these characteristics include gasoline and some jet fuels. The reduced relative concentrations of benzene and toluene suggested that the material had been subjected to mild to moderate weathering.

4.3.3 Analytical Results for Groundwater

A total of 2 groundwater samples (2 locations) were collected from the 2 monitoring wells (MW-5A and MW-5B) that were completed in Area 1. Table 4-7 presents a summary of the field work and observations. Analytical results of the groundwater samples are presented in Tables 4-33 to 4-35. Well construction details and groundwater elevations are presented in Table 4-36. The concentrations of VOCs, SVOCs, and inorganics that exceeded the NYSDEC AWQSGVs concentrations are posted on Figure 11. Concentrations that exceeded their respective individual NYSDEC RSCOs are bolded and or italicized in the tables and figure to ease in their identification.

4.3.1.1 Volatile Organic Compounds

A total of eight VOCs were detected in shallow groundwater collected from monitoring well MW-5A, which is the only water table well installed in this area during the SCS. Six of these VOCs, acetone, benzene, m/p-xylenes, and o-xylene were detected at concentrations above their respective NYSDEC AWQSGVs. Acetone was detected at the highest concentration of 1,100 ug/l.

Only methyl tert-butyl ether (MTBE) was detected in the one deep well installed on this property during the SCS, MW-5B. MTBE is a gasoline additive and is not related to operations of the former gas holders.

4.3.1.2 Semi-Volatile Organic Compounds

Five SVOCs were detected in MW-5A. The concentrations of two of these (2,4-dimethylphenol and naphthalene) exceeding their NYSDEC AWQSGVs. The highest concentration was reported for 2,4-diemthylphenol (500 ug/l). No SVOCs were detected in groundwater sample MW-5B.

4.3.1.3 Inorganics

Six metals were detected in MW-5A, with concentrations of arsenic and lead exceeding their NYSDEC AWQSGVs. In MW-5B, antimony was the only metal out of the three detected that exceeded its' NYSDEC AWQSGVs. Both total and amenable cyanide were detected in MW-5A. The concentration of total cyanide of 1.4 mg/l exceeded the NYSDEC AWQSGV of 0.2 mg/l). There is no NYSDEC AWQSGV for amenable cyanide.

4.4 Area 2 – Summary of Findings

Area 2 has been designated as that portion of the Site bounded by West 18th and West 19th Streets, from 10th Avenue westward to the bulkhead along the Hudson River. Features of the

former gas works that were present in this area included (west to east) the former MGP storage and pipe yards, and Gas Holders Nos. 3 and 4 (see Figure 2). At the time of the SCS activities, demolition and remediation activities were being conducted on the western-most quarter of the block (abutting Route 9A) by the West 19th Street Development, LLC. The parcels that comprise the remainder of Area 2 are occupied by art galleries, a night club, a vacant building, a public parking lot, the adjacent portions of Route 9A, and Chelsea Piers Sports and Entertainment Complex.

One exploratory test pit (TP-2), 13 soil borings (SB-7, SB-8, SB-9, SB-10, SB-11, SB-12, SB-13, SB-14/SB-14A, SB-15, SB-18, SB-53, SB-54 and SB-55) and a total of three groundwater monitoring wells [two overburden (MW-7A and MW-12A) and one deep confined (MW-12B)] were completed in Area 2. The locations of all sampling points are shown on Figure 4.

One subsurface soil sample was collected from the test pit, a total of 58 subsurface soil samples (56 discrete intervals plus 2 duplicates) were collected from the 14 soil borings. A total of 4 groundwater samples were collected from the wells in Area 2; one groundwater sample was collected from each well, along with the collection of one blind duplicate sample. Table 4-2 presents a summary of the sample locations, the rationale for sample location selection, sample interval(s), list of the chemical analyses, and a summary of comparisons of the each analytical group to NYSDEC RSCOs. Table 4-11 presents a summary of the field work and observations. The following sections present a discussion of the field observations and analytical results.

4.4.1 Summary of Field Observations

Table 4-11 summarizes the field observations and other information (e.g., rationale for end of boring depth). The test pit was a series of excavations that targeted the ring walls of the two former gas holders located on the east end of Area 2.

Based on the soil encountered in the borings, stratigraphy encountered in Area 2 was consistent with that described in Sections 2.5.2 and 4.2.

Depths to groundwater ranged from approximately 7 ft bgs in soil borings SB-7, SB-13, SB-15 and SB-18 to approximately 11 ft bgs in soil boring SB-14A. Groundwater elevations measured in monitoring wells MW-7A and MW-12A were 0.97 ft MSL and -1.19 ft MSL, respectively, suggesting that the water table slopes down towards the west. The groundwater elevation in MW-12B was measured at -0.03 ft MSL, suggesting an upward hydraulic pressure (when compared to MW-12A) in this area of the Site.

Note that all depths referenced on boring logs, tables, and subsequent text is relative to surface elevations (e.g., sidewalk, top of concrete slab) at each location. Soil borings SB-53, SB-54 and SB-55 were drilled in the foundation slab inside the building at Block 660, Lot 42, which is level

with the top of the loading docks. The top of the loading docks, as well as the top of the foundation slab inside the building, are approximately 4 feet above the grade of the sidewalk in front of the building. Accordingly, the upper four feet of soil beneath the raised building foundation slab inside the building was imported from an unknown source during construction and does not represent ambient soil conditions/quality at this lot prior to construction of the building.

During the exploratory test pit activities, apparent remnants of former MGP structures were encountered. Photographs of these structures are presented in Appendix D. An intact brick wall, which correlates with the approximate location of the ring wall foundation for the former Gas Holder No. 3, was encountered at test pit TP-2. A slight petroleum odor was detected throughout the test pit to the final depth of 11 ft bgs. There was no evidence of staining or residual MGP products within the test pit.

Evidence of contamination, which included odors, NAPL, staining and or sheen, was detected in 11 of the 13 soil borings completed at Area 2. No evidence of contamination (odors, staining, sheen, visible product, etc.) was detected at soil borings SB-12, MW-12A, and MW-12B.

Petroleum, fuel oil, gasoline, and/or MGP-related odors were observed in eleven of the thirteen soil borings (soil borings SB-7, SB-8, SB-9, SB-10, SB-11, SB-13, SB-14A, SB-15, SB-53, SB-54, and SB-55) completed in Area 2. The most predominant odor detected in this Area was petroleum. These odors were detected in seven soil borings (SB-8, SB-9, SB-10, SB-11, SB-13, SB-14A, and SB15). The petroleum odors were consistently detected in subsurface soil from one foot bgs to several feet into the water table (i.e., to approximately 15 feet bgs). Specific intervals where petroleum odors were detected are: 1 to 15 ft bgs in SB-8; 1 to 10 ft bgs in SB-9; 1 to 14 ft bgs in SB-10; 1 to 9 ft bgs in SB-11; 11 to 13 ft bgs in SB-13; 7 to 19 ft bgs in SB-14A; and 5 to 13 ft bgs in SB-15. LNAPL, along with petroleum odors, black staining, sheen and or elevated PID readings, was observed from 5 to 13 ft bgs in soil boring SB-15. Elevated total VOCs concentrations based on field screening using a PID ranged from 1,000 ppm [SB-10 (6 to 10 ft bgs)] to over 2,800 ppm in [SB-10 (4 to 6 ft bgs)].

MGP-related odors were observed in seven locations (SB-7 from 19 to 35 ft bgs; SB-9 from 22 to 26 ft bgs; SB-11 from 21 to 33 ft bgs; SB-15 from 13 to 21 ft bgs; SB-53 from 1 to 4.5 ft bgs and 9 to 11 ft bgs; SB-54 from 0.8 to 1 ft bgs and 2 to 4 ft bgs; and SB-55 from 0.8 to 2 ft bgs. Several of these soil borings (SB-7, SB-9, and SB-11) were located within or near the footprints of former gas holders, while some are located within the former storage yard (SB-15, SB-53, SB-54, and SB-55). Some of these intervals correlate with physical evidence of MGP-related residue.

OLM was observed in two locations (SB-11 from 23 to 29 ft bgs, and SB-15 from 13 to 21 ft bgs). TLM was observed in three locations (SB-11 from 25 to 29 ft bgs, SB-15 from 13 to 21 ft bgs, and SB-54 from 2 to 4 ft bgs).

Based on the field observations contamination was identified in three potential portions of Area 2. The contamination in both of these areas is characterized by visible OLM, TLM, sheen, black staining, and MGP-related odors. One of these areas includes soil borings SB-7, SB-9, SB-11, which are located in the area immediately surrounding the former gas holders on the eastern-most end of Area 2. The observed contamination occurs at depths ranging from approximately 19 to 35 ft bgs. The second area includes SB-15 and the surrounding area and occurs at depths of approximately 13 to 21 ft bgs. Soil boring SB-15 is located approximately 15 feet due east of a parcel known to contain MGP-contamination and which has recently been remediated (see Section 2.5.3) The third area includes soil borings SB-53, SB-54, SB-55, and the surrounding area and is located approximately 0.8 to 5 ft bgs. However, based upon the physical difference in elevation between the street and the top of the concrete slab (upon which the soil sample intervals are referenced) for the borings in the third area, the contamination is limited to the fill materials brought in to construct the present building. The source of the fill material is unknown, and is not known to be related to former MGP operations.

The SHR indicated that there were 53 reported leaking storage tank incidents within 0.5-mile of the Site. There were at least 3 reported spills that involved leaded or unleaded gasoline that abut Area 2. In addition, numerous underground tanks were used throughout Area 2 to store various petroleum products. These underground storage tanks (USTs) are either still active, have been abandoned or their status is not known. Since petroleum was not known to have been used during operations of the former MGP, the relatively shallow petroleum contamination is due to spills or leaks of petroleum from on-site USTs and or off-site USTs. There does not appear to be any direct correlation between the other odors observed in this area and former Site operations.

4.4.2 Analytical Results for Subsurface Soil

Fifty-eight subsurface soil samples were collected from 13 soil borings and one test pit in Area 2 and analyzed for VOCs, SVOCs, and inorganics (metals and cyanide). Soil samples from several sample locations along 10th Avenue were also analyzed for pesticides, herbicides, and PCBs.

Analytical results for VOCs, SVOCs, and inorganics (metals and cyanide) and pesticide/PCBs in the subsurface soil samples are presented in Tables 4-12 to 4-15, respectively. Figure 6 presents a summary of constituents detected and a comparison with the NYSDEC RSCOs. Concentrations of analytes that exceeded NYSDEC RSCOs have been bolded, italicized, and or colored in that figure and respective tables to facilitate ease of identification.

4.4.2.1 Volatile Organic Compounds

As shown in Table 4-12, a total of 15 VOCs were detected in subsurface soil samples collected from Area 2. Eight of these VOCs, namely acetone, methyl-tert butyl ether (MTBE), benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene and were detected at concentrations that exceeded their respective individual NYSDEC RSCOs. Benzene had the highest frequency of exceedances (approximately 16% of the number of samples analyzed), and m/p-xylenes and o-xylene, which both had at the highest concentrations (250,000 ug/kg and 100,000 ug/kg, respectively) at sample SB-10 (6 to 8 ft bgs). A strong gasoline/fuel oil odor was detected in this interval, with the maximum concentration of total VOCs reading of 1,200 ppm measured in the headspace using a PID. Visible brown product was observed from 8.4 to 8.8 ft bgs, with a maximum concentration for total VOCs of 1,100 ppm measured in the sample headspace using a PID. Significant reductions in the PID measurements of total VOCs (maximum 3 ppm) were recorded in the 10 to 12 ft bgs interval, and only a slight petroleum odor was present. Significant reductions in soil VOC concentrations were observed at this location in the 20 to 22 ft bgs interval, where the only benzene was detected at an elevated concentration (64 ug/kg). In soil boring SB-10 the water table was encountered at a depth of approximately 9 ft bgs. None of the concentrations of the VOCs detected in subsurface soil samples collected from the test pit exceeded their respective NYSDEC RSCOs.

The concentrations of Total VOCs in seven soil samples (SB-9 [20 to 22 ft bgs], SB-10 [5 to 6 ft bgs, 6 to 8 ft bgs, 8 to 10 ft bgs], SB-11 [27 to 29 ft bgs], and SB-15 [5 to 6 ft bgs, 17 to 19 ft bgs] exceeded the NYSDEC RSCO for Total VOCs of 10,000 ug/kg. None of the concentrations for Total VOCs exceeded the NYSDEC RSCOs for Total VOCs in deeper soil samples from these borings.

4.4.2.2 Semi-Volatile Organic Compounds

Twenty-seven SVOCs were detected in subsurface soil samples. None of the concentrations of the SVOCs detected in subsurface soil samples collected from the test pit exceeded their respective NYSDEC RSCOs. Twenty-one of the 27 SVOCs detected exceeded their respective NYSDEC RSCOs. Benzo(a)pyrene exhibited the highest frequency of exceedances (approximately 36%), followed by benzo(a) anthracene and chrysene (approximately 29% and 26%, respectively). Of the SVOCs detected, naphthalene had the highest concentration (4,700,000 ug/kg) in soil sample SB-15 (17 to 19 ft bgs). This is consistent with the observation of OLM and TLM observed in this boring immediately above the low permeability silty/clay unit, with the unit commencing at 19 ft bgs.

Based upon a review of historical maps, there were no former MGP structures or features at or in the vicinity of soil boring SB-15. It is noted however, that soil boring SB-15 was located adjacent to a parcel where petroleum and MGP-impacted soil was recently remediated.

The concentrations of total SVOCs in three of the soil samples from Area 2 (SB-11 [27 to 29 ft bgs], SB-15 [17 to 19 ft bgs], and the duplicate sample for SB-55 [2 to 3 ft bgs]) exceeded the NYSDEC RSCO for total SVOCs of 500,000 ug/kg. The total SVOC concentrations in sample SB-55 2 to 3 ft bgs and its duplicate were 184,780 ug/kg and 542,100 ug/kg, respectively. This variability is consistent with the heterogeneity typical of urban fill such as that which comprises the shallow soils across the Site.

4.4.2.3 Inorganics

Thirteen metals were detected in the subsurface soil samples. The concentrations of eight metals, namely arsenic, cadmium, copper, lead, mercury, nickel, selenium, and zinc exceeded their respective NYSDEC RSCOs in one or more samples. Lead was reported at a maximum concentration of 1,740 mg/kg in the subsurface soil sample SB-11 (27 to 29 ft bgs). The concentration of lead in the next interval sampled (35 to 37 ft bgs) at this location was below the NYSDEC RSCO for lead. Of the metals detected, zinc was detected at elevated concentrations most frequently (approximately 31%). The maximum concentration of zinc was within one order of magnitude of its NYSDEC RSCO. Cyanide was detected in 15 samples and ranged in concentration from 0.57 mg/kg in soil sample SB-14 (17 to 19 ft bgs) to 160 mg/kg in SB-53 (6 to 7 ft bgs). There are no NYSDEC RSCOs established for total or amenable cyanide.

4.4.2.4 Pesticides, Herbicides, and PCBs

Twenty-two subsurface soil samples were collected from 7 soil borings in Area 2. No pesticides were detected in any sample. Three herbicides were detected, at low concentrations. One PCB (Aroclor 1260) was detected in samples SB-9 and SB-10 at concentrations of 16 ug/kg and 21 ug/kg, respectively, which are below the NYSDEC RSCO for subsurface PCBs of 10,000 ug/kg.

4.4.2.5 Fingerprint Results

The fingerprint analytical results for soil sample SB-14A (3 to 4 ft bgs) indicated the presence of a petrogenic substance. Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt. The petrogenic material in this sample is characterized by an unresolved complex mixture (UCM), which is typically reflected as a "hump" on the gas chromatograms during the analysis, from approximately octane (C8 - 8 minutes) to tetradecane (C14 - 22 minutes) with a maximum at undecane (C11 - 16 minutes). Common petroleum products with these characteristics include kerosene and some jet fuels. The lack of a dominant normal alkane pattern in the chromatogram indicates that this material has been subject to mild to moderate weathering. The sample also contains a low level, late eluting UCM in the lube oil range. In addition to the petrogenic materials, the sample contains a series of low concentration heavy PAHs in a pyrogenic pattern. Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient

oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials. The specific source of these compounds could not be determined.

4.4.3 Groundwater Analytical Results and Field Measurements

A total of four groundwater samples (three locations plus one duplicate) were collected from the three monitoring wells (MW-7A, MW-12A, and MW-12B) that were completed in Area 2. Table 4-11 presents a summary of the field work and observations. Analytical results of the groundwater samples are presented in Tables 4-33 to 4-35. The concentrations of VOCs, SVOCs, and inorganics that exceeded the NYSDEC AWQSGVs concentrations are posted on Figure 11. Concentrations that exceeded their respective individual NYSDEC RSCOs are bolded and or italicized in the tables and figure to ease in their identification. Well construction details and groundwater elevations are presented in Table 4-36.

4.4.3.1 Volatile Organic Compounds

Six VOCs were detected in the three monitoring wells from this area of the Site, with only benzene exceeding the NYSDEC AWQSGVs. The highest concentration was for benzene which was detected at 65 ug/l in monitoring well MW-12B. Exceedances of the benzene NYSDEC AWQSGV were detected in groundwater sample MW-7A (20 ug/l) and MW-12A (1.2 ug/l, estimated). No VOCs detected in the blind duplicate sample of MW-12A (i.e., MW-22A) exceeded their NYSDEC AWQSGVs.

4.4.3.2 Semi-Volatile Organic Compounds

SVOCs were detected in groundwater samples from Area 2. No SVOCs concentrations exceeded their NYSDEC AWQSGVs for SVOCs. Di-n-butylphthalate was detected in all four samples as estimated and in the laboratory blank. Accordingly, the presence of this compound is attributed to a laboratory source and not associated with the Site.

4.4.3.3 Inorganics

Nine metals were detected in the four groundwater samples collected from this area of the Site. Only thallium (5.2 ug/l) exceeded its NYSDEC AWQSGVs in the blind duplicate sample of MW-12A. All other metals were in compliance with the NYSDEC criteria. This metal is not related to MGP residues.

Total cyanide was detected in three of the four samples, ranging from 0.01 mg/l to 0.013 mg/l. These concentrations are well below the NYSDEC AWQSGV of 0.2 mg/l for total cyanide. No amenable cyanide was detected in the groundwater samples collected from this area.

4.5 Area 3

Area 3 is bounded by West 17th and West 18th Streets, from 10th Avenue westward to the bulkhead along the Hudson River. At the time of the SCS activities, the property was being used as a private parking lot. Area 3 of the Site housed many of the former gas plant operational structures, including the Retort House, Scrubbers, the Purifying House, the Laboratory, and the Workshop. In its' original configuration, a Coal House was located on the western most portion of the block, however, the footprint of that former structure would now be in the Hudson River.

A total of two exploratory test pits (TP-3 and TP-6), 15 soil borings (SB-19, SB-20, SB-21, SB-22, SB-23, SB-24, SB-25, SB-26, SB-27, SB-47, SB-48, SB-49, SB-50, SB-51 and SB-52) and two monitoring wells MW-24A and MW-24B were completed in Area 3. The location of each of these is depicted on Figure 3. A total 61 soil samples (59 discrete intervals plus 2 duplicates) were collected for chemical analysis. Sample locations are shown on Figure 4. Table 4-3 presents a summary of the sample locations, the rationale behind the selection of the sample location, the sample interval(s), a listing of the chemical analyses conducted, and a comparison to the NYSDEC RSCOs for soil. Table 4-16 presents a summary of the field work and observations. The following sections provide summaries of the field observations and analytical results for subsurface soil samples.

4.5.1 Summary of Field Observations

Test pit excavations TP-3 and TP-6 were completed in Area 3 in efforts to determine the presence or absence of remnant foundation structures of the former Scrubbers and Laboratory Building, respectively. In test pit TP-3, a brick wall was encountered from 2.3 to 3.8 ft bgs. A tar-like residue was observed on the east wall of the test pit from 1.9 to 3.75 ft bgs. No other evidence of contamination was observed in test pit TP-3. In test pit TP-6, two ashlar (block-type) walls and two brick walls were encountered between 2 and 5 ft bgs. These walls are consistent with the approximate location of a former Laboratory building (See Figures 2 and 4). No physical evidence of contamination was detected in test pit TP-6.

Depths to groundwater ranged from approximately 5 ft bgs in soil boring SB-24 to approximately 12 ft bgs in soil boring SB-49. Groundwater elevations measured in monitoring wells MW-24A and MW-12A (in Areas 2) in the water table aquifer were 0.97 ft MSL and -1.19 ft MSL. The difference between these water elevations suggests that the water table is relatively flat and may have a slight slope toward the west.

Field observations of contamination in Area 3 included odors (MGP-related, unidentified, non-MGP-related, petroleum, solvent, and ammonia), black staining, sheen, OLM, and TLM/coal tar. Only one boring, SB-21, showed no evidence of contamination.

Petroleum odors were detected in soil boring SB-23 from 9 to 17 ft bgs.

MGP-related odors were detected in five of the 14 soil borings, which were SB-19 [9 to 15 ft bgs], in SB-24 [23 to 33.8 ft bgs], in SB-26 [15 to 33 ft bgs], in SB-48 [9 to 16 ft bgs], and in SB-52 [7 to 9 ft bgs, 15 to 17 ft bgs, and 25 to 31 ft bgs]. In three of these borings (SB-26, SB-48, and SB-52) MGP-related residue was also observed.

In SB-26, OLM occurred from 29 to 33 feet. The top of the silty clay layer was encountered at 32 ft bgs. Black staining was observed in this soil boring from 15 to 17 ft bgs and 19 to 33 ft bgs and sheen was present between 21 and 33 ft bgs. In soil boring SB-48, OLM and TLM occurred from 13 to 16 ft bgs. No staining was observed, but a sheen was present at the same depth as the OLM and TLM. At SB-52, visible OLM/coal tar was observed from 27 to 31 ft bgs. Black staining was present from 13 to 15 ft bgs and 23 to 31 ft bgs and sheen was observed from 25 to 27 ft bgs. These three borings are located within the footprint of either the former retort house (SB-26 and SB-52) or the former workshops (SB-48). In all other borings (except SB-21) in Area 3, either black staining and/or sheen were observed at various depths, both above and below the water table.

A strong ammonia-like odor was detected in SB-19 (17 to 21 ft bgs), which may be attributable to residues from the Scrubbers, which functioned to remove hydrogen sulfide and ammonia. A solvent-like odor was detected in soil boring SB-52 from 23 to 25 ft bgs. Sewage-like odors were detected in soil boring SB-26 from 11 to 13 ft bgs. Non-distinguishable odors were also detected in SB-49 (8 to 20 ft bgs), SB-50 (13 to 17 ft bgs, and 21 to 27 ft bgs), SB-51 (13 to 15 ft bgs and 17 to 27 ft bgs)

4.5.2 Analytical Results for Subsurface Soil

Analytical data for subsurface soil from soil borings and test pits are summarized in Tables 4-17 to 4-20. Figure 7 presents a summary of the constituents detected and a comparison of the sample results with NYSDEC RSCOs. Concentrations that exceed of the NYSDEC RSCOs are bolded, italicized, and or colored in the figure to facilitate identification.

4.5.2.1 Volatile Organic Compounds

A total of 18 VOCs were detected in subsurface soil samples collected from Area 3. Seven of these VOCs, namely acetone, benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene and were detected at concentrations that exceeded their respective individual

NYSDEC RSCOs. Benzene had the highest frequency of exceedances (approximately 48% of the number of samples analyzed). Of the VOCs detected, m/p-xylenes and toluene had the highest concentrations in soil sample SB-51 (21 to 22 ft bgs) at respective concentrations of 950,000 ug/kg and 640,000 ug/kg, respectively. This soil boring was located within the footprint of the former Retort House. A strong odor, elevated total VOCs of (140 ppm, based on PID measurement) and black staining were detected in this sample interval, which was immediately above the top of clay. Significant reductions in VOC concentrations were observed at this location in the 32 to 33 ft bgs interval where only benzene, with a concentration of 270 ug/kg, exceeded its NYSDEC RSCO. None of the concentrations of the VOCs detected in subsurface soil samples collected from the test pits exceeded their respective NYSDEC RSCOs.

Twelve samples exceeded the Total VOC NYSDEC RSCO of 10,000 ug/kg, with the maximum reported concentration of 2,851,248 ug/kg at the in soil sample SB-51 (21 to 22 ft bgs).

4.5.2.2 Semi-Volatile Organic Compounds

Thirty-three SVOCs were detected in subsurface soil samples. The concentrations of 20 of these 33 SVOCs exceeded their respective NYSDEC RSCOs. Benzo(a)pyrene exhibited the highest frequency of exceedances (approximately 72%), followed by benzo(a) anthracene and chrysene (approximately 61% and 54%, respectively). Of the SVOCs, naphthalene had the highest concentration (820,000 ug/kg) in soil sample SB-51 (21 to 22 ft bgs). This is consistent with the detection of the highest VOC concentrations reported in Area 3. The concentration of benzo(a)pyrene in soil sample TP-3 (7.5 ft bgs) of 150 ug/kg exceeded its NYSDEC RSCO (of 61 ug/kg.

Total SVOCs concentrations in soil samples SB-49 (17 to 18 ft bgs) SB-51 (14 to 15 ft bgs and 21 to 22 ft bgs), and SB-52 (27 to 29 ft bgs and 33 to 35 ft bgs) exceeded the NYSDEC RSCO for Total SVOCs of 500,000 ug/kg.

4.5.2.3 Inorganics

Thirteen metals were detected in the subsurface soil samples. The concentrations of seven metals, namely arsenic, cadmium, copper, lead, mercury, nickel, and zinc exceeded their respective NYSDEC RSCOs in one or more samples. Lead was detected at a maximum concentration of 677 mg/kg in subsurface soil sample TP-6 (9.5 ft bgs). Zinc was detected at elevated concentrations most frequently (approximately 41%). Total cyanide was detected in nine samples and ranged in concentration from 0.985 mg/kg in soil sample SB-20 (19 to 20 ft bgs) to 13.62 mg/kg in SB-19 (17 to 19 ft bgs). Amenable cyanide was detected in three soil samples, with the maximum concentration of 5.8 mg/kg in sample SB-21 (11 to 13 ft bgs). There are no NYSDEC RSCOs established for total or amenable cyanide.

4.5.2.4 Pesticides, Herbicides, and PCBs

Seven subsurface soil samples were collected from 2 soil borings in this Area. No pesticides, herbicides, or PCBs were detected in any sample.

4.5.3 Groundwater Analytical Results and Field Measurements

One groundwater sample was collected from the monitoring well MW-24A, which was installed in Area 3. Table 4-16 presents a summary of the field work and observations. Analytical results of the groundwater samples are presented in Tables 4-33 to 4-35. Well construction logs are provided in Appendix A. The concentrations of VOCs, SVOCs, and inorganics that exceeded the NYSDEC AWQSGVs concentrations are posted on Figure 11. Concentrations that exceeded their respective individual NYSDEC RSCOs are bolded and or italicized in the tables and figure to ease in their identification. Well construction details and groundwater elevations are summarized in Table 4-36.

DNAPL was observed in monitoring well MW-24B during well development. Accordingly, no ground water sample was collected. Initial measurements of the DNAPL thickness with two different types of oil/water interface probes (Solinst and GeoTech) did not detect any product. However, upon retrieval, the probes and cables were sporadically coated with DNAPL. TRC conducted an inspection of the monitoring well with a downhole camera, and observed oil-like globules suspended in the water column. At approximately 49 ft bgs, heavy black staining/DNAPL was observed entering the well screen. All threaded joints in the monitoring well were in good condition. The DNAPL entrance point approximately 4 feet below the bottom of the silty/clay layer, which occurs at approximately 45 ft bgs.

4.5.3.1 Volatile Organic Compounds

Six VOCs were detected in the groundwater sample collected from MW-24A, with two of them (benzene and ethyl benzene) exceeding the NYSDEC AWQSGVs. The benzene concentration was the higher of the two, reported at 19 ug/l.

4.5.3.2 Semi-Volatile Organic Compounds

Eleven SVOCs were detected in the groundwater sample collected from MW-24A, with three exceedances of the NYSDEC AWQSGVs (naphthalene, acenaphthene, and fluorene. Of these SVOCs exceedances, fluorene had the highest concentration of 54 ug/l. TLM observed in soil above the clay in this area of the Site, may be locally influencing groundwater quality.

4.5.3.3 Inorganics

Two metals were detected in the groundwater sample collected from MW-24A, with no exceedances of the NYSDEC AWQSGVs. Total cyanide was reported at 0.048 mg/l, below the NYSDEC AWQSGV.

4.6 Area 4

Area 4 has been designated as that portion of the Site where one of the former coal yards was located, from 16th Street to 17th Street, between 10th Avenue and the bulkhead along the Hudson River (see Figure 2). At the time of the SCS fieldwork, the property was used for below-ground vehicle parking and offices at this multi-story building. Sample locations were limited to sidewalk and roadways along the perimeter of the building. In addition, the basement of the building is vaulted and extends beneath the sidewalk on the south, east and west sides of this block. Presence of the structures further restricted the available spaces available for drilling of soil borings and installation of monitoring wells.

No exploratory test pits were planned or conducted in Area 4. Two soil borings (SB-29 and SB-30) and one groundwater monitoring well (MW-29A) were completed in Area 4 at the locations shown in Figure 4. Soil borings were proposed in additional locations, but could not be completed due to subsurface obstructions and utilities, safety considerations and restricted access. A total 11 soil samples (inclusive of two duplicate samples) were collected for chemical analysis.

Table 4-21 presents a summary of the field work and observations. The following sections present a discussion of the field observations and analytical results for subsurface soil samples. Figure 8 presents a summary of the detected constituents at each location, and comparison to the NYSDEC RSCOs.

4.6.1 Summary of Field Observations

Soil boring SB-29 was completed in the southeast corner of the Area 4 near the intersection of West 16th Street and 10th Avenue, and SB-30 was completed along the south side of West 17th Street. No evidence of contamination was observed in soil boring SB-29.

Depth to groundwater was approximately 11 ft bgs in soil borings SB-29 and SB-30. The groundwater elevation was measured in monitoring well MW-29A at -0.62 ft MSL.

Petroleum odors were detected from 12 to 16 ft bgs in SB-30.

MGP-like odors, and visible OLM and TLM blebs were detected in the 20 to 24 ft bgs interval in soil boring SB-30. Based on measurement with a PID, the maximum concentration of total

VOCS in this boring was 1,585 ppm, in the 22 to 24 ft bgs interval. MGP-related odors and a slight sheen on the water in the split spoon samplers were detected in soil boring SB-30 from 16 to 24 ft bgs. Within this interval, black staining was observed from 22 to 24 ft bgs and OLM and TLM blebs were observed from 20 to 24 ft bgs. The occurrence of the TLM and OLM may be related to operations of the gas works on the block directly north of soil boring SB-30.

The top of the silty clay layer was encountered at 24 ft bgs in soil boring SB-30. During drilling into and through this layer, a temporary steel casing was installed several feet into the clay to minimizing the potential for carry-down of the OLM and TLM observed from 20 to 24 ft bgs, above the top of the clay.

4.6.2 Analytical Results for Subsurface Soil

A total of 11 subsurface soil samples (9 discrete intervals plus 2 duplicates) were collected from the two borings that were completed in Area 4. Table 4-4 presents a summary of the sample locations, the rationale behind the selection of the sample location, the sample interval(s), a listing of the chemical analyses conducted, and a comparison to the NYSDEC RSCOs.

Analytical results for VOCs, SVOCs and inorganics (metals and cyanide) for subsurface soil samples collected in Area 4 are summarized in Tables 4-22 through 4-24, respectively. Figure 8 presents a summary of constituents detected and a comparison with NYSDEC RSCOs. Concentrations that exceeded their respective individual NYSDEC RSCOs have been bolded, italicized, and or colored in the summary tables and figures to for easy identification.

4.6.2.1 Volatile Organic Compounds

A total of 13 VOCs were detected in subsurface soil samples collected from Area 4. Eight of these VOCs, namely acetone, methylene chloride, benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene were detected at concentrations that exceeded their respective individual NYSDEC RSCOs. Of the VOCs detected, benzene concentrations exceeded its NYSDEC RSCO most frequently (approximately 27% of the number of samples analyzed), and m/p-xylenes and toluene were detected at the highest concentrations (150,000 ug/kg and 81,000 ug/kg, respectively) reported at location SB-30 in the 22 to 24 ft bgs interval. With the exception of benzene, which was detected at a concentration of 86 ug/kg, none of the other VOCs detected in soil sample SB-30 (28 to 30 ft bgs) exceeded their NYSDEC RSCOs. No VOCs were detected in soil sample SB-30 (84 to 86 ft bgs). Soil boring SB-30 was located approximately 100-300 feet to the east/northeast of the gas holders to the west end of Area 4. The main MGP operational facility was located approximately 100 to 250 feet north of the SB-30 location (i.e., in Area 3). Therefore, the source of the apparent impacts in soil boring SB-30 may be the OLM and TLM detected at former gas works in Area 3 or MGP residues that may be related to operations of the former gas holders in this Area 6.

Two samples exceeded the NYSDEC RSCO for Total VOCs of 10,000 ug/kg, with the maximum reported concentration of 390,900 ug/kg in soil sample SB-30 (22 to 24 ft bgs).

4.6.2.2 Semi-Volatile Organic Compounds

Twenty-three SVOC constituents were detected in subsurface soil samples. Six of the 23 SVOCs detected (benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenz(a,h)anthracene) exceeded their respective NYSDEC RSCOs. Benzo(a) anthracene and benzo(a)pyrene exhibited the highest frequency of exceedances (approximately 18% each.) The highest concentrations of naphthalene and phenanthrene (6,600 ug/kg and 5,800 ug/kg, respectively) were detected in the soil samples SB-30 (22 to 24 ft bgs) for naphthalene, and SB-30 (10 to 12 ft bgs) for phenanthrene. The elevated concentrations for these SVOCs are consistent with the presence of OLM and TLM blebs between 20 to 24 ft bgs.

None of the samples exceeded the NYSDEC RSCO for Total SVOCs of 500,000 ug/kg.

4.6.2.3 Inorganics

Thirteen metals were detected in the subsurface soil samples. Of the metals detected, mercury and zinc concentrations exceeded their respective NYSDEC RSCOs in sample SB-30 (10 to 12 ft bgs). The concentrations for these two metals were only slightly elevated. Mercury was detected at 0.113 mg/kg as compared to it s NYSDEC RSCO of 0.1 mg/kg. Zinc was detected at a concentration of 57.4 mg/kg as compared to its NYSDEC RSCO of 50 mg/kg. The concentrations of these and other metals detected are typical for urban fill. Based upon the data validation performed by TRC, the mercury result was rejected. Further details are presented in the DUSR in Appendix B.

Cyanide (total and amenable) was not detected in any of the soil samples from this Area.

4.6.3 Groundwater Analytical Results and Field Measurements

One groundwater sample was collected from Area 4 monitoring well MW-29A. Table 4-21 presents a summary of the field work and observations. Analytical results of the groundwater sample are presented in Tables 4-33 to 4-35. Well construction details and groundwater elevations are presented in Table 4-36. The concentrations of VOCs, SVOCs, and inorganics that exceeded the NYSDEC AWQSGVs concentrations are posted on Figure 11. Concentrations that exceeded their respective individual NYSDEC RSCOs are bolded and or italicized in the tables and figure to ease in their identification.

4.6.3.1 Volatile Organic Compounds

There were no exceedances of the NYSDEC AWQSGVs for VOCs in this area of the Site. Only one compound, cis-1,2-dichloroethene, was detected.

4.6.3.2 Semi-Volatile Organic Compounds

Two compounds were detected in the groundwater sample collected from MW-29A (di-n-butylphthalate and bis(2-ethylhexyl phthalate)), both of which were in compliance with the NYSDEC AWQSGVs. Di-n-butylphthalate was also detected in the laboratory blank.

4.6.3.3 Inorganics

Four metals were detected in the groundwater sample collected from MW-29A, with thallium exceeding its NYSDEC AWQSGV. There were no detections for total or amenable cyanide in this sample.

4.7 Area 5

Area 5 covers the northern-most block of the former MGP. The western portion of this area formerly contained three former Gas Holders (Nos. 5, 6, and 7). Spatially, this Area covers a portion of Route 9A, an area along the Hudson River bulkhead adjacent to Chelsea Piers, and the western portion of the block between West 19th and West 20th Streets. The Correctional Facility and a public parking lot occupy the Area (see Figure 3). During the SCS, the property was used as a New York State-run medium security women's penitentiary, vehicle parking, and a public roadway.

One exploratory test pit (TP-4), 12 soil borings (SB-31, SB-32, SB-33, SB-34, SB-36, SB-38, SB-39, SB-40A, SB-40B, SB-90, SB-91 and SB-92) and three overburden aquifer monitoring wells (MW-31A, MW-34A and MW-40A) were completed in Area 5. Test pit TP-4 was relocated from the southeast to the northwest corner of the parking lot in part due to the presence of a 1.5 foot thick reinforced concrete slab at the original location. The test pit location is depicted in Figure 4. All of these locations are depicted in Figure 4.

A total of 39 subsurface soil samples (38 discrete samples plus 1 duplicate) were collected for chemical analysis from the twelve borings and one test pit that were completed in Area 5. Table 4-5 presents a summary of the sample locations, the rationale behind the selection of the sample location, the sample interval(s), a listing of the chemical analyses conducted, and a comparison to the NYSDEC RSCOs. Table 4-25 presents a summary of the field work and observations. The following sections present a discussion of the field observations and analytical results for subsurface soil samples.

4.7.1 Summary of Field Observations

During the excavation of test pit TP-4 a concrete structure and a 2-inch diameter metal pipe were encountered at 2 ft bgs. In addition, a brick wall trending from northeast to southwest was encountered in this test pit at a depth of 3 ft bgs, along the western edge of the excavation. This structure correlates with the approximate location of the ring wall foundation of former Gas Holder No. 6. No evidence of contamination was detected in the soil in this test pit.

Depths to groundwater ranged from approximately 4.5 ft bgs in soil borings SB-32, SB-36, and SB-38 to approximately 8 ft bgs in soil borings SB-39. Groundwater elevations measured in MW-31A, MW-34A, and MW-40A in the water table aquifer were -3.01 ft MSL, 1.80 ft MSL, and 1.73 ft MSL, respectively. Based on these elevations, it appears that groundwater is flowing towards the west.

Evidence of contamination, which were detected in soil borings in Area 5 included odors (petroleum, MGP-related, sewage, burned wood, sulfur, natural gas-like, sweet wood, or unspecified), black staining, sheen, and visible OLM.

Petroleum odors were detected in four of the five soil borings typically in the vicinity of the soil water interface. Specifically, the petroleum odors were detected in soil borings SB-32 (5 to 7 ft bgs), SB-32 (9 to 13 ft bgs), SB-33 (5 to 7 ft bgs), SB-34 (2 to 3 ft bgs), and SB-36 (5 to 9 ft bgs). There are several USTs present at the parcel where the borings were excavated. Additionally, these borings are all located in the area due north of (i.e., across the street from) a site where significant releases from operations of former underground storage tanks has been documented. MGP-related odors were only detected in SB-33 (23 to 25 ft bgs) and SB-33 (27 to 37 ft bgs). Visible OLM was only detected in soil boring SB-34 in fill material from 19 to 21 ft bgs. Sheen was observed in five borings (SB-32, SB-33, SB-34, SB-36, and SB-38) at various depths at or below the soil/water table interface between 5 and 27 ft bgs. In soil borings SB-32 and SB-33 sheen was detected in both shallow intervals between 5 and 13 ft bgs and deep intervals from 19 to 25 ft bgs. The shallow intervals show evidence of impacts by petroleum residues and the deeper intervals are associated with MGP residues. In soil borings SB-36 and SB-38 sheen was only observed in the shallow intervals and in SB-34 was only detected in the deep interval.

A strong natural gas-like or decaying odor was detected in soil boring SB-36 in the interval 23 to 27 ft bgs, with a maximum PID reading of 219 ppm recorded in the 25 to 27 ft bgs interval. A continuous clay layer of at least a 6-foot thickness was observed at this location from 28 to 34.7 ft bgs.

Soil boring SB-36, located in the parking lot along West 19th Street, is approximately 14 feet to the west/southwest of former Gas Holder No. 6; and 68 feet south/southeast of former Gas Holder No. 7. At nearby sample location SB-33 (inside of former Gas Holder No. 6), drilling proceeded through wood from approximately 27 to 35 ft bgs (no recovery in 3 split-spoons).

There were no PID readings greater than 75 ppm, and no observances of OLM or TLM. At soil boring location SB-38, located approximately 57 feet to the north of SB-36, the clay was encountered at a shallower depth (17.5 feet to 23.3 ft bgs), and there were no indications of organic contamination being present.

4.7.2 Analytical Results for Subsurface Soil

Analytical results of the subsurface soil samples are presented in Tables 4-26 to 4-28. Figure 9 presents a summary of the detected constituents at each location, and comparison to NYSDEC RSCOs. Samples that exceeded their respective individual NYSDEC RSCOs are highlighted (bolded and italicized) in the tables. The analytical results for soil samples from Area 5 are discussed below.

4.7.2.1 Volatile Organic Compounds

A total of 18 VOCs were detected in subsurface soil samples collected from Area 5. Six of these VOCs, namely acetone, benzene, toluene, ethylbenzene, m/p-xylenes, and o-xylene were detected at concentrations that exceeded their respective individual NYSDEC RSCOs. Acetone exceedances may be associated with laboratory activities. Benzene was detected at elevated concentrations most frequently (approximately 13% of the number of samples analyzed). Of the VOCs detected, m/p-xylenes and benzene had the highest concentrations of 45,000 ug/kg and 43,000 ug/kg, respectively). These elevated concentrations were both detected in soil sample SB-36 (25 to 27 ft bgs). With the exception of benzene (2,000 ug/kg), the concentrations of all VOCs detected in soil sample SB-36 (33 to 35 ft bgs), which is the deepest sample collected from this boring, were below their respective NYSDEC RSCOs. However, because no field evidence of contamination was detected in the clay layer in this sample interval, it is possible that the elevated benzene concentrations may be due to smearing of benzene-impacted soil from the upper interval near the top of the silt/clay layer. VOCs concentrations in the upper sampling intervals of SB-36 (3 to 4 ft bgs), (5 to 7 ft bgs), and (17 to 19 ft bgs [and its' duplicate]) were all in below their NYSDEC RSCOs for VOCs.

The concentration of Total VOCs in soil sample SB-36 (25 to 27 ft bgs) of 157,000 ug/kg exceeded the NYSDEC RSCO for Total VOCs of 10,000 ug/kg. The Total VOCs in this sample are primarily comprised of the BTEX compounds.

4.7.2.2 Semi-Volatile Organic Compounds

Twenty-seven SVOC constituents were detected in subsurface soil samples. Twelve of the 27 SVOCs detected (naphthalene, dibenzofuran, phenanthrene, di-n-butylphthalate, fluoranthene, butylbenzylphthalate, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenz(a,h)anthracene) exceeded their respective NYSDEC RSCOs. Benzo(a)pyrene and benzo(a)anthracene exhibited the highest frequency of exceedances (approximately 77% and 51%, respectively.) Butylbenzylphthalate and phenanthrene had the highest detected concentrations (170,000 ug/kg and 77,000 ug/kg, respectively) in the soil samples SB-36 (5 to 7 ft bgs for butylbenzylphthalate, and 25 to 27 ft bgs for phenanthrene).

None of total SVOCS concentrations exceeded the NYSDEC RSCO for Total SVOCs.

4.7.2.3 Inorganics

Thirteen metals were detected in the subsurface soil samples. The concentrations of seven metals, including arsenic, cadmium, copper, lead, mercury, nickel, and zinc, exceeded their respective NYSDEC RSCOs. The highest metal concentration detected in Area 5 was for lead (2,000 mg/kg) in the soil sample TP-4 (5 to 6 ft bgs). Zinc and mercury were detected at the highest frequency of exceedances (approximately 92% and 79%, respectively). The maximum concentrations of zinc and mercury were 311 mg/kg and 2.3 mg/kg, respectively.

Total cyanide was detected in five samples, with a maximum concentration of 3.26 mg/kg. Amenable cyanide was not detected in any soil samples from this Area. There are no NYSDEC RSCOs established for total or amenable cyanide.

4.7.3 Groundwater Analytical Results and Field Measurements

A total of three groundwater samples were collected; one from each of the monitoring wells MW-31A, MW-34A, and MW-40A, which were installed in Area 5. Table 4-25 presents a summary of the field work and observations. Analytical results of the groundwater samples are presented in Tables 4-33 to 4-35. Well construction details and groundwater elevations are presented in Table 4-36. The concentrations of VOCs, SVOCs, and inorganics that exceeded the NYSDEC AWQSGVs concentrations are posted on Figure 11. Concentrations that exceeded their respective individual NYSDEC AWQSGVs are bolded and or italicized in the tables and figure to ease in their identification.

4.7.3.1 Volatile Organic Compounds

Only one compound (acetone) was detected in any of the groundwater samples. The concentration of acetone was 76 ug/l, which exceeded its NYSDEC AWQSGV. Acetone is not related to MGP residues.

4.7.3.2 Semi-Volatile Organic Compounds

A total of five compounds were detected in the groundwater samples, with only one of them (naphthalene) exceeding the NYSDEC AWQSGV. The reported concentration was 11 ug/l, slightly above the NYSDEC AWQSGV of 10 ug/l for this compound. No SVOC compounds were detected in groundwater sample MW-40A.

4.7.3.3 Inorganics

Eight metals and total cyanide were detected in the groundwater samples collected from this area, however none of them exceeded their NYSDEC AWQSGVs. Amenable cyanide was not detected.

4.8 Area 6

Area 6 is situated in the southwestern portion of the Site, due west and adjacent to Area 4 and includes the southernmost end of the Chelsea Piers Sports and Entertainment Complex. Four of the former Gas Holders (Nos. 8, 9, 10, and 11) were located in this Area, partially under what is now Route 9A. Spatially, this Area covers a portion of Route 9A, from West 16th Street to West 17th Street and is bounded by the Hudson River to the west (see Figures 2 and 4). At the time of the SCS activities, the property was used by the public (e.g., for jogging, skating, biking, etc.), and as a public roadway.

A total of 10 subsurface soil samples were collected from the three boring locations that were completed in Area 6. Table 4-6 presents a summary of the sample locations, the rationale behind the selection of the sample location, the sample interval(s), a listing of the chemical analyses conducted, and a comparison to the NYSDEC RSCOs. The following sections present a discussion of the field observations and analytical results for subsurface soil samples.

The following sections present a discussion of the analytical results for each type of sample group.

4.8.1 Summary of Field Observations

Three soil borings, SB-43, SB-44B, and SB-45, were completed in Area 6. Observations during the field activities are summarized in Table 4-29 and discussed below.

One exploratory test pit (TP-5), two soil borings (SB-41 and SB-42) and one monitoring well (MW-41A) were planned for this area. However, these activities could not be performed at these locations due to restricted access, the presence of subsurface obstructions, structures related to the adjacent building, and or utilities and related safety considerations.

Similarly, despite several attempts to complete soil borings SB-43 and SB-44, refusal due to buried wood prevented their advancement to the target depth (i.e., 50 feet or top of clay). The maximum depth achieved for these borings (i.e., refusal depth) was 24 ft bgs in soil boring SB-43, and 9 ft bgs in soil boring SB-44. It is suspected that the refusal encountered in these borings was due to a wooden platform and/or wooden pilings, which are part of the bulkhead infrastructure in this area. Based on available information the relieving platform for the bulkhead in this Area extends westward approximately 25 to 30 feet from the bulkhead along the Chelsea Piers area. The wooden platform is set at approximately 8 ft bgs, with numerous wooden pilings, rip rap, and fill material beneath it. The original soil boring designated SB-46 was subsequently renumbered to SB-44, as noted in Table 4-31.

MGP-related odors were detected in soil boring SB-44B, from 6 to 9 ft bgs. An elevated concentration for Total VOCs of over 1,500 ppm was measured in soil sample SB-44 (8 to 9 ft bgs) using a PID. No physical evidence of contamination was detected in soil borings SB-43 and SB-45.

Groundwater was encountered from approximately 5.8 ft bgs in soil boring SB-44 to approximately 7.5 ft bgs in soil boring SB-45. Due to site conditions, the monitoring well planned for this area could not be installed, and no direct measurements of groundwater elevation were conducted.

4.8.2 Analytical Results for Subsurface Soil

Ten subsurface soil samples were collected from soil borings in Area 6 and were analyzed for VOCs, SVOCs and inorganics (metals and cyanide [total and amenable]). Analytical results of the subsurface soil samples are presented in Tables 4-30 to 4-32. Figure 10 presents a summary of the detected constituents at each location, and comparison to NYSDEC RSCOs. Samples that exceeded their respective individual NYSDEC RSCOs are highlighted (bolded and italicized) in the tables.

4.8.2.1 Volatile Organic Compounds

A total of 14 VOCs were detected in subsurface soil samples collected from Area 6. Four of these VOCs, namely acetone, benzene, m/p-xylenes, and o-xylene were detected at concentrations that exceeded their respective individual NYSDEC RSCOs. Acetone exceedances may be associated with laboratory activities. O-xylene and acetone had the highest

frequency of exceedances (approximately 20% of the number of samples analyzed), and m/p-xylenes and o-xylene were detected at the highest concentrations (5,900 ug/kg and 5,100 ug/kg, respectively). These elevated concentrations were both detected in soil sample SB-44 (8 to 10 ft bgs).

Concentrations of one or more VOCs were detected in excess of their NYSDEC RSCOs in two of the 10 subsurface soil samples [SB-44 (8 to 10 ft bgs) and SB-45 (31.5 to 32 ft bgs)]. The concentrations of VOCs detected in the shallow samples collected from both of these borings were below their NYSDEC RSCOs. Benzene, o-xylene and acetone were detected at concentrations that exceeded their respective NYSDEC RSCOs in soil sample SB-45 (31.5 to 32 ft bgs).

The concentration of Total VOCs in soil sample SB-44 (8 to 10 ft bgs) of 20,080 ug/kg exceeded the NYSDEC RSCO for Total VOCs of 10,000 ug/kg. The VOCs that contribute to the total concentrations were primarily comprised of o- and m/p-xylenes, acetone and methylcyclohexane.

4.8.2.2 Semi-Volatile Organic Compounds

Twenty-three SVOCs were detected in subsurface soil samples. Concentrations of six of the 23 SVOCs detected (4-nitrophenol, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene) exceeded their respective NYSDEC RSCOs. Benzo(a)pyrene and benzo(a)anthracene exhibited the highest frequency of exceedances (approximately 70% and 60%, respectively). Pyrene and fluoranthene are PAHs that exhibited the highest detected concentrations (13,000 ug/kg and 7,000 ug/kg, respectively) in the soil samples SB-43 (8 to 10 ft bgs). The SVOCs concentrations detected in the deeper sample in soil boring SB-43 (23 to 23.5 ft bgs) were below their respective NYSDEC RSCOs except benzo(a)anthracene (270 ug/kg versus 224 ug/kg) and benzo(a)pyrene (230 ug/kg versus 61 ug/kg).

No Total SVOC concentrations exceeded the NYSDEC RSCO for Total SVOCs.

4.8.2.3 Inorganics

Thirteen metals were detected in the subsurface soil samples. Of these, the concentrations of arsenic, cadmium, copper, lead, mercury, nickel and zinc exceeded their respective NYSDEC RSCOs. The maximum reported metal concentration in Area 6 was that for lead of 956 mg/kg, which was detected in subsurface soil sample SB-43 (8 to 10 ft bgs). Of the metals detected, the concentrations of zinc and mercury exceeded their respective NYSDEC RSCOs most frequently (approximately 90% and 80%, respectively). The maximum concentrations of zinc and mercury were 485 mg/kg and 9.3 mg/kg, respectively.

Total cyanide was detected in two samples, with a maximum concentration of 0.72 mg/kg, Similarly, amenable cyanide was detected in two soil samples from this Area, with a maximum concentration of 0.72 mg/kg. There are no NYSDEC RSCOs established for total or amenable cyanide.

4.8.3 Groundwater Analytical Results and Field Measurements

There were no monitoring wells installed in this area of the Site, nor were any groundwater samples collected from this area as part of the SCS.

4.9 Site-Wide Summary of Organic Compounds Detected in Subsurface Soil

Figures 12 and 13 present a graphical interpretation of the ranges of concentrations reported in soil samples for Total VOCs and Total SVOCs, respectively. Concentrations below the NYSDEC RSCO for Total VOCs (10 mg/kg) and Total SVOCs (500 mg/kg) are presented in green. Other colors, as presented in the figures, represent different ranges of concentrations for each chemical class.

4.9.1 Total VOCs

The concentrations of Total VOCs exceeded the NYSDEC RSCO for Total VOCs in soil from 18 boring locations and 27 sample intervals across the six designated Areas of the Site. The majority of the exceedances were located in Area 3 (which was the location of the Retort House, Scrubbers, Purifying House, Laboratory and Workshops), with the central portion of this area in the vicinity of soil boring SB-51, which had the highest concentration of Total SVOCs of approximately 2,850 mg/kg. The occurrence and concentrations for Total VOCs above the NYSDEC RSCO are summarized by area in the table below.

Area	Sample Location	Sample Interval (ft bgs)	Concentration (mg/kg)
1	SB-2	19 to 20.5	103.10
	SB-4	19 to 21	182.23
	SB-5B	11 to 12	110.80
	SB-6	13 to 15	596.70

Area	Sample Location	Sample Interval (ft bgs)	Concentration (mg/kg)
2	SB-9	20 to 22	13.81
	SB-10	5 to 6 6 to 8 8 to 10	68.96 535.60 234.80
	SB-11	27 to 29	72.37
	SB-15	5 to 6 17 to 19	28.00 360.48
3	SB-19	17 to 19	12.75
	SB-24	25 to 27	863.02
	SB-25	20 to 22 33 to 34	26.84 40.49
	SB-48	15 to 16 19 to 21	35.38 12.44
	SB-49	10 to 12 14 to 15 17 to 18	243.86 34.61 300.02
	SB-51	14 to 15 21 to 22	447.52 2,851.25
	SB-52	27 to 29	196.90
4	SB-30	22 to 24 24 to 26	390.90 30.44
5	SB-36	25 to 27	157.50
6	SB-44	8 to 10	20.08

4.9.2 Total SVOCs

The concentrations of Total SVOCs exceeded the NYSDEC RSCO for Total SVOCs in soil from seven boring locations and nine sample intervals. Spatially, the highest density of exceedances was again in Area 3 of the Site (similar to the Total VOCs trend), with the maximum Total SVOC concentration reported in SB-15 (Area 2, 13,749 mg/kg). SB-15 was located on the

sidewalk, outside of the building at Block 690, Lot 46. The occurrence and concentrations for Total SVOCs above the NYSDEC RSCO are summarized by area in the table below.

Area	Sample Location	Sample Interval (ft bgs)	Concentration (mg/kg)
1	SB-4	19 to 21	728.28
2	SB-11	27 to 29	1,645.70
	SB-15	17 to 19	13,749.00
	SB-56 (Dup.)	2 to 3	542.10
3	SB-49	17 to 18	1,003.05
	SB-51	14 to 15 21 to 22	561.09 2,112.75
	SB-52	27 to 29 33 to 35	797.11 1,391.60

4.10 Groundwater Flow

Based upon the synoptic water level measurements recorded on October 11, 2005, and field survey information, groundwater elevations were calculated in each of the eleven monitoring wells installed within the areas of the Site. Information related to monitoring well construction details, groundwater elevations, and other information is summarized in Table 4-36. The groundwater elevations were then plotted and a groundwater contour map developed, as presented in Figure 14.

Based upon the topography and regional hydrogeologic information, the expected groundwater flow is to the west, towards the Hudson River. It is anticipated that groundwater levels are likely influence by seasonal and tidal fluctuations of water levels in the river. Based upon the water table elevations, the groundwater flow direction within the fill unit on the majority of the Site is towards the west/southwest. There appears to be a hydraulic anomaly located near Area 2, where the water table appears to be mounded. There may be influences from the steel sheet pile that was installed on the Block 690, Lots 12 and 54 properties.

4.11 Community Air Monitoring Results

During the Site characterization study implementation, there was no work stoppage due to elevated PID or particulate readings in excess of the CAMP criteria. There were no complaints from tenants, owners, or operators of commercial establishments of nuisance odors or dust during the Con Edison/TRC investigative efforts. Periodically, an instantaneous reading above the action level on the PID and/or dust monitor was recorded. However, these anomalies were attributed to weather-related conditions (e.g., humidity) by the field personnel.

4.12 Summary of Findings

The key field observations and analytical results for each of the six designated areas are summarized below.

Summary of Findings – Area 1

- The silty/clay unit that forms an intermediate low permeability boundary elsewhere on the Site between the water table and the lower aquifer units is discontinuous or absent in Area 1.

- Evidence of petroleum-related impacts, which included odors and LNAPL, was prevalent in the water table aquifer. The petroleum is related releases from one or more of the 6 USTs that were operated at this property. The spill is actively being managed by the regional NYSDEC office and related actions are ongoing.

- The foundations of the two former gas holders are present in the subsurface of this Area. The bottoms of the holders appear to be intact. The soil fill inside the holders appears to be different than the soil encountered in soil borings outside the holders.

- Evidence of MGP-residues (e.g., OLM, odors, black staining, etc.) was only detected in two soil borings (SB-2 and SB-4) at a depth immediately above of the bottom of both of the former gas holders. These soil borings were advanced inside the holders.

- VOCs, Total VOCs, SVOCs, Total SVOCs and metals were detected at elevated concentrations in subsurface soil.

- Concentrations of VOCs, SVOCs, two metals, and total cyanide were detected at concentrations exceeding the NYSDEC AWQSGVs in shallow groundwater (MW-5A). The majority of the VOCs and SVOCs detected are related to the petroleum contamination at the property from garage operations conducted by others.

- No VOCs or SVOCs were detected at elevated concentrations in deep groundwater (MW-5B). One metal, arsenic, exceeded the NYSDEC AWQSGVs in this well.

Summary of Findings – Area 2

- The silty/clay unit that forms an intermediate low permeability boundary between the water table and the lower aquifer appears to be continuous across Area 2. The depth to the top of the silty/clay unit varies.

- Evidence of petroleum-related impacts, which included odors and LNAPL, was prevalent in the water table aquifer and was typically detected from 1 ft bgs to depths ranging to 15 ft bgs. The petroleum is likely related operations of one or more USTs that were operated in this Area or the numerous petroleum spills that have been identified and documented in the vicinity of the Site.

- Structures associated with the two former gas holders are present in the subsurface in the eastern-most portion of Area 2. The southern portion of the ring wall of former Gas Holder No. 3 was visually confirmed in test pit TP-2, although the ring wall of former Gas Holder No. 4 could not be located. At SB-10, located inside former Gas Holder No. 4, the gas holder bottom was encountered.

- Where detected, evidence of MGP-residues (e.g., OLM, TLM, naphthalene odors, black staining, etc.) was detected as discrete narrow bands in 6 soil borings within the interval of 19 to 35 ft bgs in the eastern-most portion of this Area and adjacent to the area being remediated (Georgetown property) on the western end of Area 2 along Route 9A.

- VOCS, Total VOCs, SVOCs, Total SVOCs and metals were detected in subsurface soil at concentrations exceeding NYSDEC RSCOs. No pesticides, herbicides or PCBs were detected at concentrations in subsurface soil in excess of the NYSDEC RSCOs.

- Concentrations of one VOC, benzene, in shallow groundwater exceeded the NYSDEC AWQSGV. SVOCs were not detected in excess of the NYSDEC AWQSGVs. One metal, thallium, was detected in excess of the NYSDEC AWQSGV in the duplicate sample of MW-12B.

Summary of Findings – Area 3

- The silty/clay unit that forms an intermediate low permeability boundary between the water table and the lower aquifer appears to be continuous across Area 3. The top of this unit ranged in depth from 15 ft bgs on the eastern portion of this Area to 33 ft bgs on the western portion.

- The remnant of the foundation for several former structures were are present in subsurface in the subsurface of this Area. Based upon historical maps, the structures encountered included portions of the retort house, laboratory and scrubbers.

- With the exception of soil boring SB-21, soil encountered in all borings in Area 3 exhibited some evidence of MGP-related impacts, which included OLM, TLM, naphthalene and ammonia odors, black staining, etc. The strongest evidence of MGP impacts (e.g., OLM, TLM and heavy black staining) was detected in four borings (SB-24/MW-24 cluster, SB-26, SB-48 and SB-52). Where present, OLM, TLM, and black staining were encountered in the interval 13 to 33 ft bgs. Ammonia odors were detected in the vicinity of the Scrubbers in the eastern side of this Area.

- VOCs, Total VOCs and SVOCs, Total SVOCs and metals were detected at elevated concentrations in subsurface soil in Area 3.

- Concentrations of 2 VOCs and 3 SVOCs in the groundwater sample collected from MW-24A exceeded the NYSDEC AWQSGVs. There were no other exceedances of the NYSDEC AWQSGVs in this Area.

- During monitoring well development and groundwater sampling, several feet of coal tar DNAPL was measured in the deep monitoring well MW-24 B located in the western portion of Area 3. It is noted that no evidence of contamination was detected during installation of this well. The source and mechanism for its migration in to the well has not been determined.

Summary of Findings – Area 4

- The silty/clay unit that forms an intermediate low permeability boundary between the water table and the lower aquifer may be continuous across Area 4, but becomes notably thin on the east side of the block.

- Of the two borings completed in Area 4, only subsurface soil in soil boring SB-30 exhibited evidence of contamination, which included petroleum odors, MGP-related odors, sheen, black staining, OLM and TLM. The OLM and TLM were detected in soil from 20 to 24 ft bgs.

- VOCs, Total VOCs, SVOCs, Total SVOCs and metals were detected at elevated concentrations in subsurface soil in Area 4.

- One VOC (1,2-dichloroethene) and one metal (thallium) were detected in groundwater at concentrations above their NYSDEC AWQSGVs. Neither parameter is associated with MGP residues.

Summary of Findings – Area 5

- The silty/clay unit that forms an intermediate low permeability boundary between the water table and the lower aquifer appears to be continuous across the western portion of Area 5. The depth to the top of the silty/clay unit varies.

- A brick-wall foundation, which appeared to correlate with Gas Holder No. 6 is present in the subsurface in the southwestern portion of this Area. No evidence of MGP-related impacts associated with this structure was observed.

- Evidence of petroleum-related impacts, which included odors and sheen, was detected in several borings completed in this area. The impacts were typically in the shallow overburden or in the immediate the vicinity of the water table, which occurred between 4 to 7 ft bgs. The petroleum may have several sources, which likely include the in-place USTs on-site and documented releases from historic or current USTs on adjacent properties.

- Evidence of MGP-residues (e.g., OLM, odors, black staining, sheen etc.) was detected in five borings. MGP-related odors were detected intermittently in soil boring SB-33 in the interval from 21 to 37 ft bgs. OLM was only detected in soil boring SB-34 in the interval of 19 to 21 ft bgs. Sheen was observed in soil borings SB-32, SB-33, SB-34, SB-36 and SB-38 at various depths in the interval 5 to 27 ft bgs.

- VOCs, Total VOCs, SVOCs, Total SVOCs and metals were detected at elevated concentrations in subsurface soil.

- Only acetone (VOC) and naphthalene (SVOC) were detected at elevated concentrations in groundwater in Area 5. Acetone is not associated with MGP residues.

Summary of Findings – Area 6

- The extent of the silty-clay unit that forms an intermediate low permeability boundary between the water table and the lower aquifer could not be determined in this Area due to the inability to advance soil borings to the target depth. Boring refusal is believed to have been due to the presence of subsurface structures related to the nearby bulkhead and relieving platform.

- Of the four soil borings completed in Area 6, only one boring contained MGP-related odors and an elevated PID reading. These observations are consistent with MGP-related waste that would occur near former gas holders, such as the four that were present in Area 6.

- VOCs, Total VOCs, SVOCs, and metals were detected at elevated concentrations in subsurface soil in Area 6.

- There were no monitoring wells installed in this area of the Site, nor were any groundwater samples collected from this area as part of the SCS.

5 QUALITATIVE EXPOSURE ASSESSMENT

A qualitative exposure assessment was conducted in accordance with NYSDEC, Division of Environmental Remediation, Draft DER-10, Technical Guidance for Site Investigation and Remediation (NYSDEC, 2002). The purpose of this qualitative exposure assessment is to determine whether Site conditions pose an unacceptable hazard to potentially exposed receptor populations. In order to pose an unacceptable hazard to receptor populations, the receptor must be exposed to contaminants at the Site. This assessment evaluates whether complete exposure pathways exist at the Site and identifies chemicals of concern (COCs) for those receptors and media of concern where a complete exposure pathway exists (NYSDEC, 2002).

The former West 18th Street Gas Works was located between West 16th Street and West 20th Street, and 10th Avenue and the Hudson River bulkhead (with one additional parcel on the block bounded by West 17th Street, West 18th Street, 9th Avenue and 10th Avenue) in western downtown Manhattan, New York. As discussed in Section 2.2, the Site is located in a mixed usage area with commercial properties including storefront retail facilities to the east and west and a sports/entertainment complex located to the west and adjacent to the Site. A mixture of commercial office/warehouse facilities, art galleries and residential properties are located to the north and adjacent to the Site. An office facility and high-rise apartment building are located to the south. The areas at and around the Site are anticipated to remain the same as the current use for the foreseeable future. Buildings and structures within the former Site boundaries are presently being demolished, with new construction planned. It is anticipated that additional properties within this area will also undergo future redevelopment in a similar manner.

This Qualitative Exposure Assessment addresses all six of the designated areas as one Site. These areas are in a heavily developed urban setting, and are characterized by numerous tightly spaced buildings, concrete, and asphalt covered areas. The analysis is broad in nature, capable of being applied to current and future activities. If a specific pathway exists in one of the designated areas, it was given further attention and analyzed in the context of the elements below.

5.1 Exposure Pathway Assessment

A complete exposure pathway consists of five elements (NYSDEC, 2002):

- A contaminant source;
- Contaminant release and transport mechanisms;
- A point of exposure;
- A receptor population; and
- A route of exposure.

The evaluation of these exposure pathway elements as they apply to the Site is presented below.

5.2 Contaminant Source

The Site is the location of the former West 18th Street Gas Works. MGP operations began at in 1834, with numerous production and storage-related expansions occurring throughout the history of the facility. The West 18th Street Gas Works appears to have operated only one or two years into the twentieth century. By 1914, all of the gas holders were razed. The available historical information on the West 18th Street Gas Works indicates that this Site was both a gas manufacturing and a gas storage facility. There were no known waste storage areas. Typical MGP residues, such as tars, purifier wastes (wood or other solids), clinkers (consolidated ash-like material), condensates (liquids), and oils, were generally observed at various locations within the Site. No historical records are available that describe waste management practices during the operation of the former gas works. However, based upon visual and olfactory field observations, tars (DNAPL), clinkers, and oils (petroleum-based LNAPL) were determined to be present intermittently across the Site.

5.3 Contaminant Release and Transport Mechanisms

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed. Potential contaminant release mechanisms include historic direct release of MGP-associated contaminants to soils, and the potential release from existing or historic utilities. Transport mechanisms include the leaching, percolation or infiltration of contaminants from contaminated soils to groundwater; volatilization of contaminants from soils or groundwater to air and the potential transport of contaminants in groundwater to surface water.

5.4 Points of Exposure

An exposure point is a location where actual or potential human contact with a contaminated medium may occur. With respect to the former West 18th Street Gas Works, possible exposure points include contaminants in soil, groundwater and soil gas/indoor air intrusion. Off-site potential exposures include particulates in ambient air generated during construction activities, as well as potential exposure to contaminated soil, groundwater and vapors.

5.5 Receptor Populations

Based on current and potential future land uses at the Site, potential receptor populations that may come in contact with Site-related contaminants are commercial tenants, building residents, off-site residents, indoor maintenance workers, outdoor workers (i.e., landscapers/ groundskeepers) and construction/utility workers.

5.6 Routes of Exposure

A route of exposure is the way in which a receptor may be exposed to Site-related contaminants. Potential routes of exposure considered for this assessment include ingestion and dermal contact with soils, ingestion and dermal contact with groundwater, inhalation of indoor and ambient air that contains volatilized constituents present in Site soil and/or groundwater, and inhalation of soil particulates that enter the air column as fugitive dust emissions. The potential exposure routes for which a complete exposure pathway exists for a specific receptor are discussed below.

Commercial Tenants and Residential Receptors: A tenant in one or more of the buildings, or an adult or child residential receptor could, in general, be exposed to surface soil through incidental ingestion, inhalation, and/or dermal contact. For this Site, however, the prevalence of buildings, paving and concrete that cover almost the entire Site reduce the potential exposure routes, rendering these pathways as not being of potential significance. An adult or child resident or tenant may be exposed to surface and subsurface soil through the inhalation of particulates in ambient air associated with fugitive dust emissions during construction activities. Residential and commercial tenant receptors will not be exposed to groundwater at the Site through ingestion or dermal contact. Groundwater is not used as a drinking water supply in Manhattan. New York City residents receive their water supply from upstate reservoirs. Due to the Site's proximity to the Hudson River, groundwater beneath the Site is likely to be brackish or saline, and unsuitable for human consumption and therefore is not a media of concern for direct ingestion. Due to the presence of VOCs in groundwater which may volatilize into the residential buildings on-site, inhalation of volatiles in indoor air is a potential route of exposure for residents and commercial tenants at this Site.

Off-Site Residents: An adult or child off-site resident may be exposed to surface and subsurface soil through the inhalation of particulates in ambient air associated with fugitive dust emissions during construction activities.

Indoor Maintenance Worker: An indoor maintenance worker is assumed to work only indoors. Therefore, no routes of exposure to soils and groundwater exist for this Site. Due to the presence of VOCs in groundwater which may volatilize into the residential and commercial buildings on-site, inhalation of volatiles in indoor air is a potential route of exposure for indoor maintenance workers at this Site.

Construction Worker: A construction worker may be exposed to surface and subsurface soil and groundwater during construction activities that may occur in the future. The routes of exposure are incidental ingestion and dermal contact with soils and groundwater, inhalation of particulates in ambient air, and inhalation of volatiles in ambient air that have volatilized from soil and groundwater.

5.7 Identification of Chemicals of Concern

The evaluation of whether there are chemicals of concern at this Site considers the concentrations of Site-related chemicals and whether the concentrations pose a health hazard to the identified receptors through the complete routes of exposure identified in Section 5.6 above. Chemicals of concern that require further evaluation are those that exceed protective cleanup objectives in soil and groundwater cleanup standards (i.e., NYSDEC RSCOs and NYSDEC AWQSGVs) or applicable screening criteria. This evaluation was conducted for each medium of concern.

5.8 Surface Soil

There were no surface soil samples collected in association with this project, as paving, concrete or buildings dominate the urban landscape at the Site.

5.9 Subsurface Soils

A total of 9 VOCs, 25 SVOCs and 8 metals were detected across the six Areas of the Site in test pits and soil borings at concentrations exceeding their respective NYSDEC RSCOs. Therefore, subsurface soil is a medium of concern and could contribute to a potentially complete exposure pathway. The only receptors who may be exposed to subsurface soils is the construction worker, and possibly on-Site tenants/residents and off-site tenants (particulate inhalation during construction activities). For the construction worker, exposure may occur through incidental ingestion of surface/subsurface soil, dermal contact with surface/subsurface soil and/or groundwater, and inhalation of particulates in ambient air. Therefore, these VOCS, SVOCs and metals are COCs in subsurface soil for the construction worker.

5.10 Groundwater

A total of 5 VOCs, 5 SVOCs, 4 metals, and total cyanide were detected in groundwater at the Site in excess of the NYSDEC AWQSGVs. Therefore, groundwater is a medium of concern and could contribute to a potentially complete exposure pathway. The only receptors who may be exposed to groundwater is the construction worker, as there are no known pumping wells in vicinity of the Site. For the construction worker, exposure may occur through incidental dermal contact with groundwater. Therefore, these VOCS, SVOCs, metals, and total cyanide are COCs in groundwater for the construction worker.

5.11 Sub-Slab Vapors

A Site-wide investigation of sub-slab vapor conditions has not been conducted by Con Edison. Within Areas 2 and 5, however, Con Edison conducted limited studies (baseline sub-slab and

indoor air quality sampling program at Block 690, Lot 46 (Area 2) and at Block 691, Lot 1 (Area 5).

For the Area 2 study, a total of 12 compounds exceeded the 75th percentile NYSDOH criteria, indicating that there is a potential for vapor intrusion into indoor spaces at this location. The majority of the detected compounds can be attributed to tenant operations/storage and/or previous UST releases. As was demonstrated, certain types of construction activities by others on the adjacent parcel exacerbated the conditions, resulting in cracks in the buildings' concrete slab and walls. Tenants and residents complained of odors collecting inside the building during construction-related activities. Intrusion of sub-slab vapors was considered to be an exposure pathway for tenants and residents that would warrant further evaluation due to the limited amount of data available.

Subsequent to the Con Edison investigation, the cracks in the floor slab and walls were sealed, and construction techniques were changed. Additional soil vapor studies conducted by others indicated that there was no vapor intrusion. Since the performance of both of these studies, subsurface construction activities have been completed, the adjacent property is sealed below grade with a liner, and a new structure is being built atop it. In addition, the tenant on the first floor is reportedly moving out of this location.

The air and sub-slab soil gas sampling program conducted in Area 5 confirmed the presence of a total of 12 compounds above the 75th percentile NYSDOH criteria, five of which were in excess of the NYSDOH 90th percentile NYSDOH criteria. Two of these may be related to MGP sources and three of these compounds are not associated with former MGP operations. The data suggests that the presence of these compounds in sub-slab soil gas have the potential to impact indoor air quality. However, the analytical data, in conjunction with the observed presence of numerous VOC-containing products stored and used at the facility during routine operations and maintenance and the air flow in the basement, suggest that these potential sources are likely having a greater influence on the overall indoor air quality than intrusion of VOCs in the soil gas into the basement. Finally, comparison of the various VOCs detected in indoor air to the NYSDOH published background concentrations, it is concluded that their concentrations are generally typical for in indoor air. Although several VOCs were detected above background for residential indoor air, regardless of the source(s), the concentrations are well below published levels considered to pose an exposure risk.

In summary, subsurface soil and groundwater are mediums of concern that could contribute to potentially complete exposure pathways. The only receptors who may be directly exposed to subsurface soils is the construction worker. It is noted that on-Site tenants/residents and off-site tenants may be indirectly exposed to subsurface soil containing COCs if this media becomes

airborne as dust (e.g., particulate inhalation during construction activities). The only receptor who may be exposed to groundwater is the construction worker. The potential for a complete exposure pathway in association with sub-slab vapors exists across the Site due to the presence of elevated VOCs in subsurface soil and groundwater. However, the majority of the VOCs detected in the shallow subsurface soil and groundwater are not attributed to MGP residues but rather are most directly to the numerous documented and suspected petroleum spills throughout and in the vicinity of the Site.

6 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the SCS, soil and or groundwater quality in each of the six designated Areas of the West 18th Street Gas Works Site have been influenced by historical operations of the former MGP. In response to these findings and in accordance with the VCA, Con Edison will conduct a Remedial Investigation (RI) at the Site to delineate impacts in the affected areas. Towards this goal, a RI Work Plan was prepared and is presented in Appendix E of this report.

7 REFERENCES

Division of Water *Technical and Operational Guidance Series (1.1.1),* New York State Department of Environmental Conservation, June 1998.

Draft DER-10 *Technical Guidance for Site Investigation and Remediation,* New York State Department of Environmental Conservation, December 2002.

Draft *Guidance for Evaluating Soil Vapor Intrusion in the State of New York",* New York State Department of Health, February 2005.

Gas Research Institute, *Management of Manufactured Gas Plant Sites*, Volume 1, 1996.

Hudson River Park, Chelsea Type Bulkhead, Historic Bulkhead, ARUP, May 2002.

Manufactured Gas Plants: The Environmental Legacy, Fisher, Schmitter and Lane, November 1999.

Reconstruction of Route 9A from Horatio Street to W. 26th Street, A Length of 1.5 Kilometers in New York City, New York State Department of Transportation, Office of Engineering, August 1997.

Remedial Action Work Plan, West 19th Street Development Site, New York, NY, Blasland, Bouck & Lee, Inc., September 2003.

Report of Evaluation of Indoor Air, Soil Gas and Ambient Air Sampling, 524 West 19th Street, New York, New York, TRC Environmental Corporation, May 2005.

Site Characterization Study Work Plan for the Former West 18th Street Gas Works, Manhattan, New York, TRC Environmental Corporation, September 2003.

Site Investigation Report, West 19th Street Development Site, New York, NY, Blasland, Bouck & Lee, Inc., June 2003.

Technical and Administrative Guidance Memorandum #4046, New York State Department of Environmental Conservation, January 1994 (with revisions).

West 18th Street Manufactured Gas Plant Site History Report, Parsons, August 2002.

Work Plan for Indoor Air/Ambient Air/Sub-Slab Gas Investigation, Bayview Correctional Facility, 550 West 20th Street, TRC Environmental Corporation, September 2005.

Summary of Site Characterization Study Field Program for Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-1

Soil Borings

Individual TAGM RSCO Exceedance?

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-1	Located southeast of the former gas holder designated as Gas Holder No. 1 on the south side of West 18th Street between 9th and 10th Avenues (within the Verizon building).	5	to	5.5	No	No	No	No	No	NR	NR	NR	No	No
SB-2	Located within Gas Holder No. 1 (within Verizon building).	1	to	1.5	No	No	☑	No	No	NR	NR	NR	No	No
		2	to	2.5	No	No	☑	No	No	NR	NR	NR	No	No
		5	to	7	No	No	☑	No	No	NR	NR	NR	No	No
		13	to	15	No	No	☑	No	No	NR	NR	NR	No	No
		19	to	20.5	☑	☑	☑	No	No	NR	NR	NR	☑	No
SB-3	Located between Gas Holder No. 1 and the former gas holder designated as Gas Holder No.2 on the south side of West 18th Street between 9th and 10th Avenues (at TP-1 location, within the Verizon building).	3	to	3.5	No	No	No	No	No	NR	NR	NR	No	No
		5	to	7	No	No	No	No	No	NR	NR	NR	No	No
		13	to	15	No	No	No	No	No	NR	NR	NR	No	No
		17	to	19	No	No	No	No	No	NR	NR	NR	No	No
SB-4	Located within Gas Holder No. 2 on the south side of West 18th Street between 9th and 10th Avenues (within Verizon building).	5	to	5.5	No	No	☑	No	No	NR	NR	NR	No	No
		7	to	9	No	No	☑	No	No	NR	NR	NR	No	No
		9	to	13	No	No	☑	No	No	NR	NR	NR	No	No
		17	to	19	No	No	☑	No	No	NR	NR	NR	No	No
		19	to	21	☑	☑	☑	No	No	NR	NR	NR	☑	☑
SB-5A (MW-5B)	Located southwest of Gas Holder No. 2 (within the Verizon building).	17	to	19	☑	No	No	No	No	NR	NR	NR	No	No
		19	to	20	No	No	No	No	No	NR	NR	NR	No	No
		26	to	28	No	No	No	No	No	NR	NR	NR	No	No
		31	to	33	No	No	No	No	No	NR	NR	NR	No	No
		34	to	36	No	No	No	No	No	NR	NR	NR	No	No

Summary of Site Characterization Study Field Program for Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-1

					Individual TAGM RSCO Exceedance?								
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-5B (MW-5A)	Located southwest of Gas Holder No. 2 (within the Verizon building).	10	to	11	No	No	No	No	No	NR	NR	NR	No	No
		11	to	12	☑	No	No	No	No	NR	NR	NR	☑	No
		21	to	22	No	No	No	No	No	NR	NR	NR	No	No
SB-6	Located northwest of Gas Holder No. 2 (within the Verizon building).	10	to	12	No	No	No	No	No	NR	NR	NR	No	No
		13	to	15	☑	No	No	No	No	NR	NR	NR	☑	No
		19	to	21	☑	No	No	No	No	NR	NR	NR	No	No
		24	to	26	No	No	No	No	No	NR	NR	NR	No	No
		28.5	to	30.5	No	No	No	No	No	NR	NR	NR	No	No
MW-55B	Duplicate of MW-5B	34	to	36	No	No	No	No	No	NR	NR	NR	No	No
SB-85A	Duplicate of SB-5A	19	to	20	No	No	☑	No	No	NR	NR	NR	No	No
SB-66	Duplicate of SB-6	24	to	26	No	No	No	No	No	NR	NR	NR	No	No

Exploratory Test Pit Trenches

TP-1B	Located in the central area of the Verizon parking garage, in search of the former ring walls.	1	to	1.5	No	No	☑	No	No	NR	NR	NR	No	No
TP-21B	Duplicate of TP-1B	1	to	1.5	No	No	☑	No	No	NR	NR	NR	No	No

Groundwater Samples

MW-5A	Located southwest of the former gas holder designated as Gas Holder No. 2 (within the Verizon building) - water table aquifer.	14			☑	☑	☑	☑	No	NR	NR	NR	Not Applicable	Not Applicable
MW-5B	Located southwest of the former gas holder designated as Gas Holder No. 2 (within the Verizon building) - deeper aquifer.	37			No	No	☑	No	No	NR	NR	NR	Not Applicable	Not Applicable

Notes:
NA = Not Analyzed
NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Site Characterization Study Field Program for Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-2

Soil Borings

Individual TAGM RSCO Exceedance?

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-7	Located on the southwest corner of West 19th Street and 10th Avenue (sidewalk area).	6	to	7	No	No	No	No	No	No	No	No	No	No
		17	to	19	No	No	No	No	No	No	No	No	No	No
		27	to	29	No	No	No	No	No	No	No	No	No	No
		43	to	45	No	No	No	No	No	No	No	No	No	No
MW-7A	Same as above.	6	to	7	No	No	No	No	No	No	No	No	No	No
SB-8	Located east of and between the former gas holders designated as Gas Holder Nos. 3 and 4 near 10th Avenue between 18th and 19th Streets (sidewalk area).	4	to	5	No	No	No	No	No	No	No	No	No	No
		11	to	11.5	No	No	No	No	No	NR	NR	NR	No	No
		14.5	to	15	☑	No	No	No	No	NR	NR	NR	No	No
SB-9	Located within Gas Holder No. 3 in the vicinity of the southwest corner of West 19th Street and 10th Avenue (within the parking lot).	4	to	5	No	☑	No	No	No	No	No	No	No	No
		8	to	10	No	☑	☑	No	No	No	No	No	No	No
		20	to	22	☑	☑	☑	No	No	No	No	No	☑	No
		26	to	28	No	No	No	No	No	No	No	No	No	No
		32	to	34	No	No	No	No	No	No	No	No	No	No
SB-10	Located within Gas Holder No. 4 in the vicinity of the northwest corner of West 18th Street and 10th Avenue (within the parking lot).	5	to	6	☑	☑	No	No	No	No	No	No	☑	No
		6	to	8	☑	☑	☑	No	No	No	No	No	☑	No
		8	to	10	☑	No	No	No	No	No	No	No	☑	No
		20	to	22	☑	No	No	No	No	No	No	No	No	No
		48	to	50	No	No	☑	No	No	No	No	No	No	No
SB-11	Located southwest of Gas Holder No. 4 (within the parking lot).	5	to	6	☑	☑	☑	No	No	No	No	No	No	No
		13	to	15	No	No	No	No	No	No	No	No	No	No
		27	to	29	☑	☑	☑	No	No	No	No	No	☑	☑
		35	to	37	No	No	No	No	No	No	No	No	No	No
		37	to	39	No	No	No	No	No	No	No	No	No	No
SB-12	Located within the former Gas Light Company Pipe Yard (in the parking lot between West 18th and West 19th Streets).	5	to	7	No	No	No	No	No	NR	NR	NR	No	No
		7	to	9	No	☑	No	No	No	NR	NR	NR	No	No
		15	to	17	No	No	No	No	No	NR	NR	NR	No	No
		25	to	27	☑	No	☑	No	No	NR	NR	NR	No	No
		49	to	51	No	No	No	No	No	NR	NR	NR	No	No
SB-13	Located within the former Gas Light Company Store Yard (on the sidewalk), south side of West 19th Street.	6	to	6.5	No	No	☑	No	No	NR	NR	NR	No	No
		25	to	27	No	No	No	No	No	NR	NR	NR	No	No
		27	to	29	No	No	☑	No	No	NR	NR	NR	No	No
SB-13A	Duplicate of SB-13	25	to	27	No	No	No	No	No	NR	NR	NR	No	No

Summary of Site Characterization Study Field Program for Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-2

					Individual TAGM RSCO Exceedance?									
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-14	Located within the former Gas Light Company Store Yard (within Block 690, Lot 20), close to West 18th Street.	4	to	5	No	☑	☑	No	No	No	No	No	No	No
SB-14A	Located within the former Gas Light Company Store Yard (within Block 690, Lot 20), close to West 18th Street.	11	to	13	No	No	No	No	No	NR	NR	NR	No	No
		17	to	19	No	No	No	No	No	NR	NR	NR	No	No
		23	to	25	No	No	☑	No	No	NR	NR	NR	No	No
SB-15	Located on the sidewalk, north of Block 690, Lot 46.	4	to	5	No	No	No	No	No	NR	NR	NR	No	No
		5	to	6	No	No	No	No	No	NR	NR	NR	☑	No
		7	to	9	No	☑	☑	No	No	NR	NR	NR	No	No
		11	to	13	No	No	No	No	No	NR	NR	NR	No	No
		17	to	19	☑	☑	No	No	No	NR	NR	NR	☑	☑
		23	to	25	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-18	Located on the sidewalk area immediately east of Chelsea Piers between West 18th and West 19th Streets.	7.3	to	7.9	No	☑	☑	No	No	NR	NR	NR	No	No
		28.5	to	29	☑	☑	☑	No	No	NR	NR	NR	No	No
		42.5	to	43	No	No	☑	No	No	NR	NR	NR	No	No
SB-53	Located in the southwest area inside the building at Block 690, Lot 42.	6	to	7	No	☑	☑	No	No	NR	NR	NR	No	No
		8.3	to	9.3	No	No	☑	No	No	NR	NR	NR	No	No
		14	to	15	No	No	☑	No	No	NR	NR	NR	No	No
SB-54	Located in the southeast area inside the building at Block 690, Lot 42.	3	to	4	No	☑	☑	No	No	NR	NR	NR	No	No
		5	to	6	No	☑	☑	No	No	NR	NR	NR	No	No
		9	to	10	No	No	No	No	No	NR	NR	NR	No	No
		19	to	21	No	☑	No	No	No	NR	NR	NR	No	No
SB-55	Located in the northeast area inside the building at Block 690, Lot 42.	2	to	3	No	☑	☑	No	No	NR	NR	NR	No	No
		5	to	6	No	☑	☑	No	No	NR	NR	NR	No	No
		8	to	9	No	No	No	No	No	NR	NR	NR	No	No
		19	to	20	No	No	No	No	No	NR	NR	NR	No	No
SB-56	Duplicate of SB-55	2	to	3	No	☑	☑	No	No	NR	NR	NR	No	☑

Summary of Site Characterization Study Field Program for Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-2

			Individual TAGM RSCO Exceedance?									
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)	VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
Exploratory Test Pit Trenches												
TP-2	Located within the parking lot between 18th and 19th Street, parallel to 10th Avenue (Block 690, Lot 20).	10 to 11	No	No	No	No	No	NR	NR	NR	No	No
Groundwater Samples												
MW-7A	Adjacent to former gas holder designated as Gas Holder No. 3 on the sidewalk east of Block 690, Lot 29.	11	☑	No	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-12A	Located west of former gas holders designated as Gas Holder Nos. 3 and 4 in Block 690, Lot 20.	12	☑	No	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-12B	Located west of former gas holders designated as Gas Holder Nos. 3 and 4 in Block 690, Lot 20.	42	☑	No	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-22A	Duplicate of MW-12A	12	No	No	☑	No	No	NR	NR	NR	Not Applicable	Not Applicable

Notes:
NA = Not Analyzed
NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Site Characterization Study Field Program for Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-3

Soil Borings

Individual TAGM RSCO Exceedance?

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-19	Located within the former Purifier House (north side) along 10th Avenue (Block 689, Lot 17).	5	to	7	No	☑	No	No	No	No	No	No	No	No
		17	to	19	☑	☑	☑	No	No	No	No	No	☑	No
SB-20	Located within the former Purifier House (south side) along 10th Avenue (Block 689, Lot 17).	9	to	11	No	☑	No	No	No	No	No	No	No	No
		13	to	15	No	☑	No	No	No	No	No	No	No	No
		19	to	20	☑	No	No	No	No	No	No	No	No	No
		41	to	43	No	☑	No	No	No	No	No	No	No	No
		49	to	51	No	☑	No	No	No	No	No	No	No	No
SB-21	Within the former Scrubbers near 10th Avenue (Block 689, Lot 17).	11	to	13	No	☑	☑	No	No	NR	NR	NR	No	No
		15	to	17	No	No	No	No	No	NR	NR	NR	No	No
		21	to	23	No	No	No	No	No	NR	NR	NR	No	No
SB-22	Located in the northeast corner of the former Retort House near West 18th Street (parking lot between West 17th and West 18th Streets).	5	to	7	No	☑	☑	No	No	NR	NR	NR	No	No
		11	to	13	No	☑	No	No	No	NR	NR	NR	No	No
		15	to	17	No	☑	No	No	No	NR	NR	NR	No	No
		22	to	23	☑	☑	☑	No	No	NR	NR	NR	No	No
		26	to	27	☑	No	☑	No	No	NR	NR	NR	No	No
SB-23	Locate within the southeast corner of the former Retort House (Block 689, Lot 17).	9	to	10	No	☑	☑	No	No	NR	NR	NR	No	No
		15	to	16	No	☑	No	No	No	NR	NR	NR	No	No
		17	to	18	☑	☑	☑	No	No	NR	NR	NR	No	No
		24	to	25	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-24	Located within the southern boundary of the former Retort House near Marginal Street (Block 689, Lot 17).	5	to	7	No	☑	☑	No	No	NR	NR	NR	No	No
		7	to	9	No	☑	☑	No	No	NR	NR	NR	No	No
		25	to	27	☑	☑	No	No	No	NR	NR	NR	☑	No
		33	to	35	☑	☑	☑	No	No	NR	NR	NR	No	No
		53	to	55	No	No	No	No	No	NR	NR	NR	No	No
		82	to	84	No	No	No	No	No	NR	NR	NR	No	No
SB-25	Located within the northern boundary of the former Retort House near Marginal Street (Block 689, Lot 17).	7	to	9	No	☑	☑	No	No	NR	NR	NR	No	No
		20	to	22	☑	☑	No	No	No	NR	NR	NR	☑	No
		32	to	33	☑	☑	No	No	No	NR	NR	NR	No	No
		33	to	34	☑	☑	☑	No	No	NR	NR	NR	☑	No
SB-26	Located on the bike path area immediately east of Chelsea Piers between West 17th and West 18th Streets.	6.5	to	7	No	No	☑	No	No	NR	NR	NR	No	No
		31	to	33	☑	☑	☑	No	No	NR	NR	NR	No	No
		35	to	37	No	No	☑	No	No	NR	NR	NR	No	No

Summary of Site Characterization Study Field Program for Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-3

					Individual TAGM RSCO Exceedance?									
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-27	Located on the bike path area immediately east of Chelsea Piers between West 17th and West 18th Streets.	5	to	5.5	No	☑	☑	No	No	NR	NR	NR	No	No
		5.9	to	6.3	No	☑	☑	No	No	NR	NR	NR	No	No
		40.9	to	41.3	No	No	☑	No	No	NR	NR	NR	No	No
		44.5	to	45	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-47	Located within the former Line House/Laboratory near West 18th Street and 10th Avenue (Block 689, Lot 17).	7	to	9	No	No	No	No	No	NR	NR	NR	No	No
		13	to	15	No	☑	No	No	No	NR	NR	NR	No	No
		17	to	19	☑	No	☑	No	No	NR	NR	NR	No	No
SB-48	Located within the former Workshop Area/Exhaust House near 17th Street (Block 689, Lot 17).	7	to	9	No	☑	☑	No	No	NR	NR	NR	No	No
		15	to	16	☑	☑	☑	No	No	NR	NR	NR	☑	No
		19	to	21	☑	No	No	No	No	NR	NR	NR	☑	No
SB-49	Centrally within the parking lot between West 17th and West 18th Streets (Block 689, Lot 17).	10	to	12	☑	☑	No	No	No	NR	NR	NR	☑	No
		14	to	15	☑	No	No	No	No	NR	NR	NR	☑	No
		17	to	18	☑	☑	No	No	No	NR	NR	NR	☑	☑
		23	to	24	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-50	Located within the former Retort House near West 18th Street (Block 689, Lot 17).	2	to	3	No	☑	☑	No	No	NR	NR	NR	No	No
		8	to	10	No	No	☑	No	No	NR	NR	NR	No	No
		21	to	23	No	☑	No	No	No	NR	NR	NR	No	No
		26	to	27	☑	No	No	No	No	NR	NR	NR	No	No
SB-51	Located within the former Retort House (Block 689, Lot 17).	6	to	7	☑	☑	☑	No	No	NR	NR	NR	No	No
		14	to	15	☑	☑	No	No	No	NR	NR	NR	☑	☑
		21	to	22	☑	☑	No	No	No	NR	NR	NR	☑	☑
		32	to	33	☑	☑	No	No	No	NR	NR	NR	No	No
SB-52	Located within the former Retort House (western portion of Block 689, Lot 17).	11	to	13	☑	☑	☑	No	No	NR	NR	NR	No	No
		27	to	29	☑	☑	No	No	No	NR	NR	NR	☑	☑
		33	to	35	☑	☑	☑	No	No	NR	NR	NR	No	☑
SB-61	Duplicate of SB-20	41	to	43	No	☑	No	No	No	NR	NR	NR	No	No
SB-64	Duplicate of SB-24	33	to	35	☑	No	☑	No	No	NR	NR	NR	No	No

Summary of Site Characterization Study Field Program for Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-3

			Individual TAGM RSCO Exceedance?										
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)	VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
Exploratory Test Pit Trenches												
TP-3	Located within the parking lot between 17th and 18th Street, parallel to West 17th Street (Block 689, Lot 17).	7.5 to 7.5	No	☑	☑	No	No	NR	NR	NR	No	No
TP-6	Located within the parking lot between 17th and 18th Street, perpendicular to West 18th Street (Block 689, Lot 17).	9.5 to 9.5	No	No	☑	No	No	NR	NR	NR	No	No
Groundwater Samples												
MW-24A	Located along the southern border of the former Retort House (western portion of Block 689, Lot 17).	11	☑	☑	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-24B	Located along the southern border of the former Retort House (western portion of Block 689, Lot 17).	No groundwater sample was collected as DNAPL was present in the monitoring well.										

Notes:
NA = Not Analyzed
NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Site Characterization Study Field Program for Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-4

Soil Borings

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			Individual TAGM RSCO Exceedance? VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-29	Located on the sidewalk near the southwestern portion of the former Coal Yard (Block 688, Lot 1001).	11	to	13	No	No	No	No	No	NR	NR	NR	No	No
		34	to	36	No	No	No	No	No	NR	NR	NR	No	No
		38	to	39	No	No	No	No	No	NR	NR	NR	No	No
		48	to	50	No	No	No	No	No	NR	NR	NR	No	No
SB-30	Located on the sidewalk near the northern portion of the former Coal Yard (Block 688, Lot 1001).	10	to	12	No	☑	☑	No	No	NR	NR	NR	No	No
		22	to	24	☑	☑	No	No	No	NR	NR	NR	☑	No
		24	to	26	☑	No	No	No	No	NR	NR	NR	☑	No
		28	to	30	☑	No	No	No	No	NR	NR	NR	No	No
		84	to	86	No	No	No	No	No	NR	NR	NR	No	No
SB-66	Duplicate of SB-30	84	to	86	No	No	No	No	No	NR	NR	NR	No	No
SB-71	Duplicate of SB-29	48	to	50	No	No	No	No	No	NR	NR	NR	No	No

Groundwater Samples

MW-29A	Located on the sidewalk near the southwestern portion of the former Coal Yard (Block 688, Lot 1001).	13	No	No	☑	No	No	NR	NR	NR	Not Applicable	Not Applicable

Notes:
NA = Not Analyzed
NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Site Characterization Study Field Program for Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-5

Soil Borings

Individual TAGM RSCO Exceedance?

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-31	Located on the sidewalk east of the former gas holder designated as Gas Holder No. 5 (correctional facility) along the south side of West 20th Street.	7.1	to	7.7	No	☑	☑	No	No	NR	NR	NR	No	No
		21	to	23	☑	No	☑	No	No	NR	NR	NR	No	No
		25	to	27	No	No	☑	No	No	NR	NR	NR	No	No
SB-32	Located east of Gas Holder No. 5 and the former gas holder designated as Gas Holder No. 6 (Block 691, Lot 11).	4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
		11	to	13	No	☑	☑	No	No	NR	NR	NR	No	No
		21	to	23	No	☑	☑	No	No	NR	NR	NR	No	No
SB-33	Located within Gas Holder No. 6 (Block 691, Lot 11).	4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
		11	to	13	No	☑	☑	No	No	NR	NR	NR	No	No
		13	to	15	No	No	☑	No	No	NR	NR	NR	No	No
		35	to	37	☑	☑	☑	No	No	NR	NR	NR	No	No
		39	to	41	No	No	☑	No	No	NR	NR	NR	No	No
SB-34	Located on the sidewalk south of Gas Holder No. 6 (Block 691, Lot 11).	3	to	4	☑	☑	☑	No	No	NR	NR	NR	No	No
		4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
		20.5	to	21	No	☑	No	No	No	NR	NR	NR	No	No
		28.5	to	29	No	No	☑	No	No	NR	NR	NR	No	No
SB-36	Located southwest of Gas Holder No. 6 (Block 691, Lot 11).	3	to	4	No	☑	☑	No	No	NR	NR	NR	No	No
		5	to	7	No	☑	☑	No	No	NR	NR	NR	No	No
		17	to	19	No	☑	☑	No	No	NR	NR	NR	No	No
		25	to	27	☑	☑	☑	No	No	NR	NR	NR	☑	No
		33	to	35	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-38	Located east/southeast of Gas Holder No. 7 (Block 691, Lot 11).	3	to	4	No	☑	☑	No	No	NR	NR	NR	No	No
		4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
		13	to	15	No	☑	☑	No	No	NR	NR	NR	No	No
		21	to	23	No	☑	☑	No	No	NR	NR	NR	No	No
SB-39	Located within Gas Holder No. 7 on the Chelsea Piers access roadway (west of Route 9A, between West 19th and West 20th Streets).	7.5	to	8	No	☑	☑	No	No	NR	NR	NR	No	No
		22	to	23	No	☑	☑	No	No	NR	NR	NR	No	No
SB-40/MW-40A	Located southwest of Gas Holder No. 7 east on the sidewalk of Chelsea Piers (between West 19th and West 20th Streets)	4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No

Summary of Site Characterization Study Field Program for Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-5

					Individual TAGM RSCO Exceedance?									
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-40/MW-40B	Located southwest of Gas Holder No. 7 east on the sidewalk of Chelsea Piers (between West 19th and West 20th Streets)	33	to	35	No	No	☑	No	No	NR	NR	NR	No	No
		35	to	37	☑	☑	☑	No	No	NR	NR	NR	No	No
		41	to	43	No	No	☑	No	No	NR	NR	NR	No	No
SB-73	Duplicate of SB-36	17	to	19	No	No	☑	No	No	NR	NR	NR	No	No
SB-90	Southwestern portion of the alleyway in Block 691, Lot 1, east of former Gas Holder No. 7	4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
SB-91	Southeastern portion of the alleyway in Block 691, Lot 1, inside former Gas Holder No. 5	4	to	5	No	☑	☑	No	No	NR	NR	NR	No	No
		8	to	11	No	☑	☑	No	No	NR	NR	NR	No	No
		11	to	15	No	☑	☑	No	No	NR	NR	NR	No	No
SB-92	Northeastern portion of Block 691, Lot 1, inside of former Gas Holder No. 5	0	to	1	No	☑	☑	No	No	NR	NR	NR	No	No
		3	to	3	No	☑	☑	No	No	NR	NR	NR	No	No
		9	to	13	No	☑	☑	No	No	NR	NR	NR	No	No
Exploratory Test Pit Trenches														
TP-4	Located within the parking lot on the northeast corner of West 19th Street and Marginal Street.	5	to	6	No	☑	☑	No	No	NR	NR	NR	No	No
Groundwater Samples														
MW-31A	Located on the sidewalk northeast of the former gas holder designated as Gas Holder No. 5 along West 20th Street.	11.5			No	No	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-34A	Located on the sidewalk south of the former gas holder designated as Gas Holder No. 6, along the northern sidewalk of West 19th Street.	7			☑	☑	No	No	No	NR	NR	NR	Not Applicable	Not Applicable
MW-40A	Located on the sidewalk southwest of the former gas holder designated as Gas Holder No. 7, adjacent to Chelsea Piers.	10			No	No	No	No	No	NR	NR	NR	Not Applicable	Not Applicable

Summary of Site Characterization Study Field Program for Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-5

			Individual TAGM RSCO Exceedance?									
Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)	VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs

Notes:

NA = Not Analyzed

NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Site Characterization Study Field Program for Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-6

Soil Borings

Individual TAGM RSCO Exceedance?

Sample Location	Sample Location Rationale	Sample Interval (Feet below ground surface)			VOCs	SVOCs	PP Metals	Total Cyanide	Amenable Cyanide	PCBs	Pesticides	Herbicides	Total VOCs	Total SVOCs
SB-43	Located within the former gas holder designated as Gas Holder No. 10 on the west side of Route 9A (west of the bike path at West 17th Street).	6	to	8	No	☑	☑	No	No	NR	NR	NR	No	No
		7	to	7.5	No	☑	☑	No	No	NR	NR	NR	No	No
		8	to	10	No	☑	☑	No	No	NR	NR	NR	No	No
		23	to	23.5	No	☑	☑	No	No	NR	NR	NR	No	No
SB-44	Located between Gas Holder No. 10 and the former gas holder designated as Gas Holder No. 11 on the west side of Route 9A (west of the bike path between West 16th and West 17th Streets).	6	to	8	No	☑	☑	No	No	NR	NR	NR	No	No
		8	to	10	☑	☑	☑	No	No	NR	NR	NR	☑	No
SB-45 (first attempt)	Located within Gas Holder No. 11 on the west side of Route 9A (west of the bike path close to West 16th Street).	7	to	8	No	☑	☑	No	No	NR	NR	NR	No	No
SB-45 (second location)	Located within Gas Holder No. 11 on the west side of Route 9A (west of the bike path close to West 16th Street).	7	to	7.5	No	No	☑	No	No	NR	NR	NR	No	No
		31.5	to	32	☑	☑	☑	No	No	NR	NR	NR	No	No
SB-46	Located west of former Gas Holder No. 10, west of Route 9A and the bike path.	4.5	to	5.5	No	No	No	No	No	NR	NR	NR	No	No

Notes:
NA = Not Analyzed
NR = Not Required per the NYSDEC-approved SCS Work Plan

Summary of Field Work and Observations for Area1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-7

Boring / Well ID	Date Completed	Boring Depth (ft bgs)	Well Screen Interval	Depth to GW (ft bgs)	Depth to top of Clay (ft bgs)	Field Observations
SB-1	14-May-05	6	N/A	N/A	N/A	6': Refusal due to rock, N/O, N/S, no sheen
SB-2	6-May-05	20.5	N/A	13	N/A	0.8'-2': Strong gasoline-like odor, N/S, PID = 22.1 ppm; 13'-15': Petroleum odor, N/S, PID = 0.8 ppm; 15'-17': MGP-related odor, N/S, PID = 0.5 ppm; 17'-19': Strong MGP-related odor, N/S, PID = 124 ppm; 19'-21': Strong MGP-related odor, N/S, PID = 19.2 ppm; Refusal doe to rocks at 20.5' - possible bottom of Former Gas Holder #1
SB-3	6-May-05	20	N/A	13	N/A	13'-15': Strong gasoline-like odor, N/S, PID = 63 ppm
SB-4	5-May-05	21	N/A	8	N/A	6.5'-9': Strong gasoline-like odor, black staining, sheen, PID = 5.7 ppm; 9'-11': Slight gasoline-like odor, N/S, trace sheen, PID = 0.9 ppm; 11'-13': Slight petroleum odor, trace black staining, trace sheen, PID = 4.4 ppm; 13'-15': Petroleum odor, N/S, sheen, PID = 30.5 ppm; 15'-17': Slight MGP-related odor, N/S, sheen, PID = 9.8 ppm; 17'-19': MGP-related odor, N/S, sheen, PID = 12.9 ppm; 19'-21': Very strong MGP-related odor, heavy black staining, visible OLM, PID = 3,124 ppm; Refusal due to rocks and brick at 21' - possible bottom of Former Gas Holder #2
SB-5	3-Jun-05	31	N/A	8	20	10'-11': Strong petroleum-like odor, sheen, N/S, PID = 387 ppm; 11'-15' : Very strong petroleum-like odor, black staining, sheen, PID = 4085 ppm; 15'-19': Strong petroleum-like odor, sheen, black staining on wood, tr NAPL., PID = 198 ppm; 19'-20': Tr petroleum-like odor, N/S, PID = 6.8 ppm; 20 '-25': Very sl petroleum-like odor, N/S, PID = 8.4 ppm
SB-5A/MW-5B	8-Jun-05	42	32-42	11.5	18.5'-19 and 31-31.3'	10'-11': Strong petroleum-like odor, N/S, sheen, PID = 387 ppm; 11'-15': Very strong petroleum-like odor, black staining, sheen, PID = 4,085 ppm; 15'-19', Very strong petroleum-like odor, N/S, sheen, PID = 1,222 ppm; 19'-21': Sheen; 32'-36': Very slight non-MGP-related odor, N/S, PID = 0.0 ppm

Summary of Field Work and Observations for Area1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-7

Boring / Well ID	Date Completed	Boring Depth (ft bgs)	Well Screen Interval	Depth to GW (ft bgs)	Depth to top of Clay (ft bgs)	Field Observations
SB-5B/MW-5A	2-May-05	22	9'-19'	11.5	N/A	10'-11': Strong petroleum-like odor, N/S, sheen, PID = 387 ppm; 11'-15': Very strong petroleum-like odor, black staining, sheen, PID = 4,085 ppm; 15'-20': Very strong petroleum-like odor, N/S, sheen, PID = 1,222 ppm; 20'-21': Slight petroleum-like odor, N/S, sheen, PID = 55 ppm; 21'-22': Slight petroleum-like odor, N/S, trace sheen, PID = 12.4 ppm; Refusal at 22' due to brick/concrete
SB-6	13-May-05	72	N/A	8	26.1'-28.2' and 38-40	10'-13': Slight petroleum-like odor (stronger at tip), trace black staining, PID = 265 ppm (sleeve) and PID = 2,060 ppm (tip); 13'-16': Strong petroleum-like odor, some black staining, sheen, trace NAPL, PID = 3,520 ppm; 16'-19': Slight petroleum-like odor, N/S PID = 134 ppm; Refusal at 72' due to rock (schist fragments in spoon)
TP- 1B	4-May-05	3	N/A	N/A	N/A	0'-1': Gasoline-like odor, N/S, PID = 667 ppm ; 2'-3' Gasoline-like odor, black staining on wood timbers, PID = 78.2 ppm; at 3' Gasoline-like odor, N/S, PID = 46.0 ppm

Note: Elevations are reported in feet below ground surface (ft bgs).
The sample locations were inside a building that was elevated approximately 2.5 feet above street level.

Laboratory and Data Validation Qualifiers
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Subsurface Soil -Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-8

Sample Location		TP-1B	TP-21B	SB-1	SB-2	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3
Sample Interval (Feet bgs)		1.0 to 1.5	1.0 to 1.5	5.0 to 5.5	1.0 to 1.5	2.0 to 2.5	5 to 7	13 to 15	19 to 20.5	3.0 to 3.5	5 to 7
Sampling Date		05/04/05	05/04/05	05/03/05	05/02/05	05/02/05	05/06/05	05/06/05	05/06/05	04/29/05	05/06/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO		Duplicate of TP-1B								
Dichlorodifluoromethane	NC	0.95 U	0.94 UJ	0.86 U	0.92 U	0.93 U	1.1 U	0.97 U	540 U	0.92 UR	0.95 U
Chloromethane	NC	0.95 U	0.93 UJ	0.86 U	0.91 U	0.93 U	1.1 U	0.97 U	1100 U	0.92 UR	0.95 U
Vinyl Chloride	200	0.91 U	0.9 UJ	0.83 U	0.88 U	0.89 U	1 U	0.93 U	430 U	0.89 UR	0.92 U
Bromomethane	NC	2.2 U	2.2 UJ	2 U	2.2 U	2.2 U	2.5 U	2.3 U	1300 U	2.2 UR	2.3 U
Chloroethane	1,900	2.4 U	2.3 UJ	2.2 U	2.3 U	2.3 U	2.7 U	2.4 U	1400 U	2.3 UR	2.4 U
Trichlorofluoromethane	NC	1.4 U	1.4 UJ	1.3 U	1.3 U	1.4 U	1.6 U	1.4 U	940 U	1.3 UR	1.4 U
1,1,2-Trichlorotrifluoroethane	6,000	0.74 U	0.73 UJ	0.67 U	0.71 U	0.72 U	0.83 U	0.75 U	1100 U	0.72 UR	0.74 U
1,1-Dichloroethene	400	0.64 U	0.63 UJ	0.58 U	0.61 U	0.62 U	0.71 U	0.65 U	520 U	0.62 UR	0.64 U
Acetone	200	8.2 JB	81 BJ	6 JB	3.7 J	3.6 U	13 JB	15 JB	5400 U	12 J	7 JB
Carbon Disulfide	2,700	0.41 U	0.4 UJ	0.37 U	0.39 U	0.4 U	0.46 U	0.42 U	630 U	0.4 UR	0.41 U
Methyl tert-butyl Ether	120	0.41 U	0.4 UJ	0.37 U	0.39 U	0.4 U	0.46 U	5.1 J	580 U	0.4 UR	0.41 U
Methyl Acetate	NC	0.96 U	0.95 UJ	0.87 U	0.93 U	0.94 U	1.1 U	0.98 U	1300 U	0.93 UR	0.96 U
Methylene Chloride	100	3.6 JB	2.2 J	1.8 U	6.1	5.9 B	2.3 U	2.1 U	1000 U	2 UR	2 U
trans-1,2-Dichloroethene	300	0.71 U	0.7 UJ	0.65 U	0.68 U	0.69 U	0.8 U	0.72 U	830 U	0.69 UR	0.71 U
1,1-Dichloroethane	200	0.3 U	0.29 UJ	0.27 U	0.29 U	0.29 U	0.34 U	0.3 U	350 U	0.29 UR	0.3 U
Cyclohexane	NC	0.36 U	0.35 UJ	0.33 U	0.35 U	0.35 U	0.4 U	0.37 U	1600 J	0.35 UR	0.36 U
2-Butanone	300	3.1 U	15 J	2.9 U	3 U	3.1 U	3.5 U	3.2 U	4600 U	3 UR	3.1 U
Carbon Tetrachloride	600	0.49 U	0.48 UJ	0.45 U	0.47 U	0.48 U	0.55 U	0.5 U	760 U	0.48 UR	0.49 U
cis-1,2-Dichloroethene	NC	0.36 U	0.36 UJ	0.33 U	0.35 U	0.35 U	0.41 U	0.37 U	1200 U	0.35 UR	0.36 U
Chloroform	300	0.39 U	0.38 UJ	0.35 U	0.37 U	0.38 U	0.43 U	0.39 U	930 U	0.38 UR	0.39 U
1,1,1-Trichloroethane	800	0.46 U	0.46 UJ	0.42 U	0.45 U	0.45 U	0.52 U	0.47 U	660 U	0.45 UR	0.47 U
Methylcyclohexane	NC	0.47 U	4.1 J	0.42 U	0.45 U	0.46 U	0.52 U	0.48 U	3500 J	0.45 UR	0.47 U
Benzene	60	0.44 U	0.44 UJ	0.4 U	0.43 U	0.43 U	0.5 U	1.7 J	***22000***	0.43 UR	0.44 U
1,2-Dichloroethane	200	0.34 U	0.34 UJ	0.31 U	0.33 U	0.33 U	0.38 U	0.35 U	520 U	0.33 UR	0.34 U
Trichloroethene	700	0.34 U	0.34 UJ	0.31 U	0.33 U	0.33 U	0.38 U	0.35 U	1100 U	0.33 UR	0.34 U
1,2-Dichloropropane	NC	0.44 U	0.43 UJ	0.4 U	0.43 U	43	0.5 U	0.45 U	510 U	0.43 UR	0.44 U
Bromodichloromethane	NC	0.37 U	0.37 UJ	0.34 U	0.36 U	0.36 U	0.42 U	0.38 U	560 U	0.36 UR	0.37 U
4-Methyl-2-Pentanone	1,000	2.2 U	2.2 UJ	2 U	2.1 U	2.1 U	2.5 U	2.2 U	2100 U	2.1 UR	2.2 U
Toluene	1,500	0.45 U	5.7 J	0.41 U	0.43 U	0.44 U	0.51 U	0.46 U	630 U	0.44 UR	0.45 U
t-1,3-Dichloropropene	NC	0.4 U	0.4 UJ	0.37 U	0.39 U	0.39 U	0.45 U	0.41 U	690 U	0.39 UR	0.4 U
cis-1,3-Dichloropropene	NC	0.37 U	0.36 UJ	0.33 U	0.35 U	0.36 U	0.41 U	0.37 U	250 U	0.36 UR	0.37 U
1,1,2-Trichloroethane	NC	0.33 U	0.32 UJ	0.3 U	0.31 U	0.32 U	0.37 U	0.33 U	840 U	0.32 UR	0.33 U
2-Hexanone	NC	4 U	3.9 UJ	3.6 U	3.9 U	3.9 U	4.5 U	4.1 U	1100 U	3.9 UR	4 U
Dibromochloromethane	NA	0.26 U	0.25 UJ	0.23 U	0.25 U	0.25 U	0.29 U	0.26 U	610 U	0.25 UR	0.26 U
1,2-Dibromoethane	NC	0.45 U	0.44 UJ	0.41 U	0.43 U	0.44 U	0.5 U	0.45 U	1000 U	0.43 UR	0.45 U
Tetrachloroethene	1,400	0.81 U	0.8 UJ	0.74 U	0.78 U	0.79 U	0.91 U	0.83 U	540 U	0.79 UR	0.81 U
Chlorobenzene	1,700	0.4 UJ	0.4 UJ	0.37 U	0.39 U	0.39 U	0.45 U	0.41 U	600 U	0.39 UR	0.4 U
Ethyl Benzene	5,500	0.39 U	4.4 J	0.36 U	0.38 U	0.38 U	0.44 U	0.4 U	***35000***	0.38 UR	0.39 U
m/p-Xylenes	1,200	0.96 U	67 J	0.87 U	0.93 U	1.2 J	1.1 U	0.98 U	***13000*** J	0.93 UR	0.96 U
o-Xylene	600	0.43 U	150 J	0.39 U	0.41 U	0.42 U	0.48 U	0.43 U	600 U	0.41 UR	0.43 U
Styrene	NC	0.51 U	0.5 UJ	0.46 U	0.49 U	0.5 U	0.57 U	0.52 U	560 U	0.5 UR	0.51 U
Bromoform	NC	0.34 U	0.34 UJ	0.31 U	0.33 U	0.34 U	0.39 U	0.35 U	410 U	0.33 UR	0.35 U
Isopropylbenzene	2,300	0.46 U	0.46 UJ	0.42 U	0.45 U	0.45 U	0.52 U	0.47 U	***28000***	0.45 UR	0.46 U
1,1,2,2-Tetrachloroethane	600	0.34 U	0.34 UJ	0.31 U	0.33 U	0.34 U	0.39 U	0.35 U	800 U	0.34 UR	0.35 U
1,3-Dichlorobenzene	1,600	0.62 U	0.61 UJ	0.56 U	0.6 U	0.61 U	0.7 U	0.63 U	600 U	0.6 UR	0.62 U
1,4-Dichlorobenzene	8,500	0.6 U	6 J	0.55 U	0.58 U	0.59 U	0.68 U	0.62 U	630 U	0.59 UR	0.61 U
1,2-Dichlorobenzene	7,900	0.43 U	0.42 UJ	0.39 U	0.41 U	0.42 U	0.48 U	0.44 U	590 U	0.42 UR	0.43 U
1,2-Dibromo-3-Chloropropane	NC	1 U	1 UJ	0.95 U	1 U	1 U	1.2 U	1.1 U	1500 U	1 UR	1 U
1,2,4-Trichlorobenzene	3,400	0.76 U	0.75 UJ	0.69 U	0.73 U	0.74 U	0.85 U	0.77 U	470 U	0.74 UR	0.76 U
Total Confident Conc. VOC	10,000	11.8	335.4	6.0	9.8	50.1	13.0	21.8	***103,100***	12	7

Summary of Volatile Organic Compounds in Subsurface Soil -Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-8

Sample Location		SB-3	SB-3	SB-4	SB-4	SB-4	SB-4	SB-4	SB-5A	SB-5A
Sample Interval (Feet bgs)		13 to 15	17 to 19	5.0 to 5.5	7 to 9	9 to 13	17 to 19	19 to 21	17 to 19	19 to 20
Sampling Date		05/06/05	05/06/05	05/03/05	05/05/05	05/05/05	05/05/05	05/05/05	05/02/05	05/02/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO									
Dichlorodifluoromethane	NC	48 U	1 U	0.95 U	0.97 U	1 U	1 U	52 U	5.1 U	0.98 U
Chloromethane	NC	98 U	0.99 U	0.95 U	0.97 U	1 U	1 U	110 U	5.1 U	0.97 U
Vinyl Chloride	200	38 U	0.96 U	0.91 U	0.93 U	0.96 U	0.98 U	42 U	4.9 U	0.94 U
Bromomethane	NC	110 U	2.4 U	2.3 U	2.3 U	2.4 U	2.4 U	120 U	12 U	2.3 U
Chloroethane	1,900	130 U	2.5 U	2.4 U	2.4 U	2.5 U	2.5 U	140 U	13 U	2.4 U
Trichlorofluoromethane	NC	83 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	90 U	7.5 U	1.4 U
1,1,2-Trichlorotrifluoroethane	6,000	100 U	0.77 U	0.74 U	0.75 U	0.78 U	0.79 U	110 U	4 U	0.76 U
1,1-Dichloroethene	400	46 U	0.67 U	0.64 U	0.65 U	0.67 U	0.68 U	50 U	3.4 U	0.65 U
Acetone	200	480 U	13 JB	8.1 JB	19 JB	28 JB	19 JB	520 U	20 U	3.8 U
Carbon Disulfide	2,700	56 U	0.43 U	0.41 U	0.42 U	0.43 U	0.44 U	61 U	2.2 U	0.42 U
Methyl tert-butyl Ether	120	52 U	2.1 J	0.41 U	0.42 U	0.43 U	0.44 U	56 U	2.2 U	2.7 J
Methyl Acetate	NC	120 U	1 U	0.96 U	0.98 U	1 U	1 U	130 U	5.2 U	0.99 U
Methylene Chloride	100	89 U	2.1 U	2.5 JB	2.4 JB	2.1 U	2.8 J	97 U	37	6.9
trans-1,2-Dichloroethene	300	74 U	0.74 U	0.71 U	0.72 U	0.75 U	0.76 U	80 U	3.8 U	0.73 U
1,1-Dichloroethane	200	31 U	0.31 U	0.3 U	0.3 U	0.31 U	0.32 U	34 U	1.6 U	0.31 U
Cyclohexane	NC	53 U	0.38 U	0.36 U	0.37 U	1.4 J	0.38 U	57 U	1.9 U	0.37 U
2-Butanone	300	410 U	3.3 U	3.1 U	3.2 U	3.3 U	3.3 U	440 U	17 U	3.2 U
Carbon Tetrachloride	600	68 U	0.52 U	0.49 U	0.5 U	0.52 U	0.53 U	73 U	2.7 U	0.51 U
cis-1,2-Dichloroethene	NC	110 U	0.38 U	0.36 U	0.37 U	0.38 U	0.39 U	120 U	1.9 U	0.37 U
Chloroform	300	83 U	0.4 U	0.39 U	0.39 U	0.41 U	0.41 U	90 U	2.1 U	0.4 U
1,1,1-Trichloroethane	800	59 U	0.49 U	0.46 U	0.47 U	0.49 U	0.5 U	64 U	2.5 U	0.48 U
Methylcyclohexane	NC	1300	0.49 U	0.47 U	5.7	5 J	0.5 U	230 J	100	0.48 U
Benzene	60	35 U	0.46 U	0.44 U	0.45 U	2.4 J	0.47 U	***19000***	14 J	0.45 U
1,2-Dichloroethane	200	46 U	0.36 U	0.34 U	0.35 U	0.36 U	0.36 U	50 U	1.8 U	0.35 U
Trichloroethene	700	96 U	0.36 U	0.34 U	0.35 U	0.36 U	0.37 U	100 U	1.8 U	0.35 U
1,2-Dichloropropane	NC	46 U	0.46 U	0.44 U	0.45 U	0.46 U	0.47 U	50 U	2.4 U	0.45 U
Bromodichloromethane	NC	50 U	0.39 U	0.37 U	0.38 U	0.39 U	0.4 U	54 U	2 U	0.38 U
4-Methyl-2-Pentanone	1,000	190 U	2.3 U	2.2 U	2.2 U	2.3 U	2.3 U	210 U	12 U	2.3 U
Toluene	1,500	56 U	0.47 U	0.45 U	0.46 U	0.47 U	0.48 U	***29000***	2.4 U	0.46 U
t-1,3-Dichloropropene	NC	61 U	0.42 U	0.4 U	0.41 U	0.42 U	0.43 U	66 U	2.2 U	0.41 U
cis-1,3-Dichloropropene	NC	22 U	0.38 U	0.37 U	0.37 U	0.39 U	0.39 U	24 U	2 U	0.38 U
1,1,2-Trichloroethane	NC	74 U	0.34 U	0.33 U	0.33 U	0.34 U	0.35 U	81 U	1.8 U	0.34 U
2-Hexanone	NC	95 U	4.2 U	4 U	4.1 U	4.2 U	4.3 U	100 U	22 U	4.1 U
Dibromochloromethane	NA	54 U	0.27 U	0.26 U	0.26 U	0.27 U	0.27 U	59 U	1.4 U	0.26 U
1,2-Dibromoethane	NC	91 U	0.47 U	0.45 U	0.46 U	0.47 U	0.48 U	99 U	2.4 U	0.46 U
Tetrachloroethene	1,400	47 U	0.85 U	0.81 U	0.83 U	0.85 U	0.87 U	52 U	4.4 U	0.83 U
Chlorobenzene	1,700	53 U	0.42 U	0.4 U	0.41 U	0.42 U	0.43 U	58 U	2.2 U	0.41 U
Ethyl Benzene	5,500	59 U	0.41 U	0.39 U	0.4 U	0.41 U	0.42 U	***48000*** D	60	0.4 U
m/p-Xylenes	1,200	140 U	1 U	0.96 U	0.98 U	1.4 J	1 U	***56000***	250	3.9 J
o-Xylene	600	53 U	0.45 U	0.43 U	0.43 U	0.45 U	0.46 U	***22000***	8.7 J	0.44 U
Styrene	NC	49 U	0.53 U	0.51 U	0.52 U	0.54 U	0.55 U	53 U	2.8 U	0.52 U
Bromoform	NC	36 U	0.36 U	0.34 U	0.35 U	0.36 U	0.37 U	39 U	1.9 U	0.35 U
Isopropylbenzene	2,300	48 U	0.48 U	0.46 U	0.47 U	2.1 J	2.2 J	***3000***	2.5 U	0.47 U
1,1,2,2-Tetrachloroethane	600	71 U	0.36 U	0.35 U	0.35 U	0.36 U	0.37 U	77 U	1.9 U	0.35 U
1,3-Dichlorobenzene	1,600	53 U	0.65 U	0.62 U	0.63 U	0.65 U	0.66 U	58 U	3.3 U	0.64 U
1,4-Dichlorobenzene	8,500	56 U	0.63 U	0.61 U	0.62 U	0.64 U	0.65 U	60 U	3.3 U	0.62 U
1,2-Dichlorobenzene	7,900	53 U	0.45 U	0.43 U	0.44 U	0.45 U	0.46 U	57 U	2.3 U	0.44 U
1,2-Dibromo-3-Chloropropane	NC	130 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U	150 U	5.6 U	1.1 U
1,2,4-Trichlorobenzene	3,400	41 U	0.79 U	0.76 U	0.77 U	0.8 U	0.81 U	45 U	4.1 U	0.78 U
Total Confident Conc. VOC	10,000	1,300	15.1	10.6	27.1	40.3	24.0	***182,230***	469.7	13.5

Summary of Volatile Organic Compounds in Subsurface Soil -Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-8

Sample Location		SB-85A	SB-5A	SB-5A	SB-5B	SB-5B	SB-5B	MW-5B	MW-55B	SB-6	SB-6
Sample Interval (Feet bgs)		19 to 20	26 to 28	31 to 33	10 to 11	11 to 12	21 to 22	34 to 36	34 to 36	10 to 12	13 to 15
Sampling Date		05/02/05	05/03/05	05/03/05	05/02/05	05/02/05	05/02/05	06/07/05	06/07/05	05/12/05	05/12/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1 U	1 U	1 U	0.92 U	36 U	1 U	1.1 U	1 U	0.96 U	50 U
Chloromethane	NC	1 U	1 U	1 U	0.92 U	73 U	1 U	1.1 U	1 U	0.96 U	100 U
Vinyl Chloride	200	0.97 U	0.99 U	0.96 U	0.88 U	29 U	0.99 U	1 U	1 U	0.92 U	40 U
Bromomethane	NC	2.4 U	2.4 U	2.4 U	2.2 U	84 U	2.4 U	2.6 U	2.5 U	2.3 U	120 U
Chloroethane	1,900	2.5 U	2.6 U	2.5 U	2.3 U	95 U	2.6 U	2.7 U	2.6 U	2.4 U	130 U
Trichlorofluoromethane	NC	1.5 U	1.5 U	1.5 U	1.3 U	62 U	1.5 U	1.6 U	1.5 U	1.4 U	87 U
1,1,2-Trichlorotrifluoroethane	6,000	0.78 U	0.8 U	0.78 U	0.71 U	75 U	0.8 U	0.84 U	0.81 U	0.75 U	100 U
1,1-Dichloroethene	400	0.67 U	0.69 U	0.67 U	0.61 U	35 U	0.69 U	0.72 U	0.7 U	0.64 U	48 U
Acetone	200	3.9 U	16 JB	17 JB	3.6 U	360 U	4 U	16 J	4.1 U	7.9 JB	500 U
Carbon Disulfide	2,700	0.43 U	0.44 U	0.43 U	0.39 U	42 U	0.44 U	0.46 U	0.45 U	0.41 U	59 U
Methyl tert-butyl Ether	120	2.6 J	0.44 U	0.43 U	0.39 U	39 U	0.44 U	0.46 U	0.45 U	0.41 U	54 U
Methyl Acetate	NC	1 U	1 U	1 U	0.93 U	89 U	1 U	1.1 U	1.1 U	0.97 U	120 U
Methylene Chloride	100	5.3 JB	2.2 U	3.7 JB	2 U	67 U	6.7	2.3 U	5.1 JB	2 U	94 U
trans-1,2-Dichloroethene	300	0.75 U	0.77 U	0.75 U	0.69 U	55 U	0.77 U	0.81 U	0.78 U	0.72 U	77 U
1,1-Dichloroethane	200	0.32 U	0.32 U	0.31 U	0.29 U	23 U	0.32 U	0.34 U	0.33 U	0.3 U	32 U
Cyclohexane	NC	0.38 U	0.39 U	0.38 U	0.35 U	39 U	0.39 U	0.41 U	0.39 U	0.36 U	55 U
2-Butanone	300	3.3 U	3.4 U	3.3 U	3 U	300 U	3.4 U	3.6 U	3.4 U	3.2 U	430 U
Carbon Tetrachloride	600	0.52 U	0.53 U	0.52 U	0.48 U	51 U	0.53 U	0.56 U	0.54 U	0.5 U	71 U
cis-1,2-Dichloroethene	NC	0.38 U	0.39 U	0.38 U	0.35 U	83 U	0.39 U	0.41 U	0.4 U	0.36 U	120 U
Chloroform	300	0.41 U	0.42 U	0.41 U	0.37 U	62 U	0.42 U	0.44 U	0.42 U	0.39 U	87 U
1,1,1-Trichloroethane	800	0.49 U	0.5 U	0.49 U	0.45 U	44 U	0.5 U	0.53 U	0.51 U	0.47 U	61 U
Methylcyclohexane	NC	0.49 U	0.51 U	0.49 U	0.45 U	2800	0.51 U	0.53 U	0.51 U	0.47 U	20000
Benzene	60	0.47 U	0.48 U	0.47 U	0.43 U	26 U	2 J	0.5 U	0.49 U	0.45 U	36 U
1,2-Dichloroethane	200	0.36 U	0.37 U	0.36 U	0.33 U	34 U	0.37 U	0.39 U	0.37 U	0.34 U	48 U
Trichloroethene	700	0.36 U	0.37 U	0.36 U	0.33 U	72 U	0.37 U	0.39 U	0.37 U	0.35 U	100 U
1,2-Dichloropropane	NC	0.47 U	0.48 U	0.46 U	0.43 U	34 U	0.48 U	0.5 U	0.48 U	0.45 U	48 U
Bromodichloromethane	NC	0.39 U	0.4 U	0.39 U	0.36 U	37 U	0.4 U	0.42 U	0.41 U	0.38 U	52 U
4-Methyl-2-Pentanone	1,000	2.3 U	2.4 U	2.3 U	2.1 U	140 U	2.6 J	2.5 U	2.4 U	2.2 U	200 U
Toluene	1,500	0.48 U	0.49 U	0.47 U	0.43 U	42 U	3 J	0.51 U	0.49 U	0.45 U	***59000*** DJ
t-1,3-Dichloropropene	NC	0.43 U	0.44 U	0.42 U	0.39 U	46 U	0.44 U	0.46 U	0.44 U	0.41 U	64 U
cis-1,3-Dichloropropene	NC	0.39 U	0.4 U	0.39 U	0.36 U	16 U	0.4 U	0.42 U	0.4 U	0.37 U	23 U
1,1,2-Trichloroethane	NC	0.35 U	0.35 U	0.34 U	0.32 U	56 U	0.35 U	0.37 U	0.36 U	0.33 U	78 U
2-Hexanone	NC	4.2 U	4.3 U	4.2 U	3.9 U	71 U	4.3 U	4.5 U	4.4 U	4 U	99 U
Dibromochloromethane	NA	0.27 U	0.28 U	0.27 U	0.25 U	41 U	0.28 U	0.29 U	0.28 U	0.26 U	57 U
1,2-Dibromoethane	NC	0.47 U	0.48 U	0.47 U	0.43 U	68 U	0.48 U	0.51 U	0.49 U	0.45 U	95 U
Tetrachloroethene	1,400	0.86 U	0.88 U	0.85 U	0.78 U	35 U	0.88 U	2.6 J	1.5 J	0.82 U	50 U
Chlorobenzene	1,700	0.43 U	0.44 U	0.42 U	0.39 U	40 U	0.44 U	0.46 U	0.44 U	0.41 U	55 U
Ethyl Benzene	5,500	0.42 U	0.43 U	0.41 U	0.38 U	***18000***	5.5 J	3 J	2.6 J	0.4 U	***70000*** DJ
m/p-Xylenes	1,200	1 U	1 U	1 U	0.93 U	***74000*** D	22	1.4 J	1.1 U	0.97 U	***320000*** DJ
o-Xylene	600	0.45 U	0.46 U	0.45 U	0.41 U	***18000***	5.3 J	4.4 J	4.2 J	0.43 U	***120000*** DJ
Styrene	NC	0.54 U	0.55 U	0.54 U	0.49 U	37 U	0.55 U	0.58 U	0.56 U	0.52 U	52 U
Bromoform	NC	0.36 U	0.37 U	0.36 U	0.33 U	27 U	0.37 U	0.39 U	0.38 U	0.35 U	38 U
Isopropylbenzene	2,300	0.49 U	0.5 U	0.49 U	0.45 U	***4000***	0.5 U	0.52 U	0.51 U	0.47 U	***7700***
1,1,2,2-Tetrachloroethane	600	0.37 U	0.37 U	0.36 U	0.33 U	53 U	0.37 U	0.39 U	0.38 U	0.35 U	75 U
1,3-Dichlorobenzene	1,600	0.66 U	0.67 U	0.65 U	0.6 U	40 U	0.67 U	0.7 U	0.68 U	0.63 U	56 U
1,4-Dichlorobenzene	8,500	0.64 U	0.66 U	0.64 U	0.58 U	42 U	1.8 J	0.69 U	0.66 U	0.61 U	58 U
1,2-Dichlorobenzene	7,900	0.45 U	0.47 U	0.45 U	0.41 U	39 U	0.46 U	0.49 U	0.47 U	0.43 U	55 U
1,2-Dibromo-3-Chloropropane	NC	1.1 U	1.1 U	1.1 U	1 U	100 U	1.1 U	1.2 U	1.1 U	1.1 U	140 U
1,2,4-Trichlorobenzene	3,400	0.8 U	0.82 U	0.8 U	0.73 U	31 U	0.82 U	0.86 U	0.83 U	0.77 U	43 U
Total Confident Conc. VOC	10,000	7.9	16.0	20.7	-	***110,800***	48.9	27.4	13.4	7.9	***596,700***

Summary of Volatile Organic Compounds in Subsurface Soil -Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-8

Sample Location		SB-6	SB-6	SB-66	SB-6							
Sample Interval (Feet bgs)		19 to 21	24 to 26	24 to 26	28.5 to 30.5							
Sampling Date		05/12/05	05/12/05	05/12/05	05/12/05							
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg							
Volatile Organic Compounds (ug/Kg)	TAGM RSCO			Duplicate of SB-6		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	1.1 U	1 U	1 U	1 U	33	0	0%	0	0%	< 0.86	< 540
Chloromethane	NC	1.1 U	1 U	1 U	1 U	33	0	0%	0	0%	< 0.86	< 1,100
Vinyl Chloride	200	1 U	1 U	1 U	0.97 U	33	0	0%	0	0%	< 0.83	< 430
Bromomethane	NC	2.5 U	2.5 U	2.5 U	2.4 U	33	0	0%	0	0%	< 2	< 1,300
Chloroethane	1,900	2.6 U	2.6 U	2.6 U	2.5 U	33	0	0%	0	0%	< 2.2	< 1,400
Trichlorofluoromethane	NC	1.5 U	1.5 U	1.5 U	1.5 U	33	0	0%	0	0%	< 1.3	< 940
1,1,2-Trichlorotrifluoroethane	6,000	0.82 U	0.81 U	0.8 U	0.79 U	33	0	0%	0	0%	< 0.67	< 1,100
1,1-Dichloroethene	400	0.71 U	0.7 U	0.69 U	0.68 U	33	0	0%	0	0%	< 0.58	< 520
Acetone	200	34 BJ	19 JB	19 JB	12 JB	33	21	64%	0	0%	< 3.6	< 5,400
Carbon Disulfide	2,700	7	0.45 U	0.45 U	0.44 U	33	1	3%	0	0%	< 0.37	630
Methyl tert-butyl Ether	120	23	0.45 U	0.45 U	0.44 U	33	5	15%	0	0%	< 0.37	< 580
Methyl Acetate	NC	1.1 U	1.1 U	1 U	1 U	33	0	0%	0	0%	< 0.87	< 1,300
Methylene Chloride	100	2.3 U	2.2 U	2.2 U	2.2 U	33	13	39%	0	0%	< 1.8	< 1,000
trans-1,2-Dichloroethene	300	0.79 U	0.78 U	0.77 U	0.76 U	33	0	0%	0	0%	< 0.65	< 830
1,1-Dichloroethane	200	0.33 U	0.33 U	0.33 U	0.32 U	33	0	0%	0	0%	< 0.27	< 350
Cyclohexane	NC	5.7 J	0.39 U	0.39 U	0.38 U	33	3	9%	0	0%	< 0.33	1,600
2-Butanone	300	3.5 U	3.4 U	3.4 U	3.3 U	33	1	3%	0	0%	< 2.9	< 4,600
Carbon Tetrachloride	600	0.55 U	0.54 U	0.54 U	0.52 U	33	0	0%	0	0%	< 0.45	< 760
cis-1,2-Dichloroethene	NC	0.4 U	0.4 U	0.39 U	0.38 U	33	0	0%	0	0%	< 0.33	< 1,200
Chloroform	300	0.43 U	0.42 U	0.42 U	0.41 U	33	0	0%	0	0%	< 0.35	< 930
1,1,1-Trichloroethane	800	0.52 U	0.51 U	0.51 U	0.49 U	33	0	0%	0	0%	< 0.42	< 660
Methylcyclohexane	NC	6 J	0.51 U	0.51 U	0.5 U	33	10	30%	0	0%	< 0.42	20,000
Benzene	60	***87***	0.49 U	0.48 U	0.47 U	33	7	21%	3	9%	< 0.4	22,000
1,2-Dichloroethane	200	0.38 U	0.37 U	0.37 U	0.36 U	33	0	0%	0	0%	< 0.31	< 520
Trichloroethene	700	0.38 U	0.37 U	0.37 U	0.36 U	33	0	0%	0	0%	< 0.31	< 1,100
1,2-Dichloropropane	NC	0.49 U	0.48 U	0.48 U	0.47 U	33	1	3%	0	0%	< 0.4	< 510
Bromodichloromethane	NC	0.41 U	0.41 U	0.41 U	0.4 U	33	0	0%	0	0%	< 0.34	< 560
4-Methyl-2-Pentanone	1,000	2.4 U	2.4 U	2.4 U	2.3 U	33	1	3%	0	0%	< 2	< 2,100
Toluene	1,500	5 J	3.6 J	1.7 J	2.1 J	33	8	24%	2	6%	< 0.41	59,000
t-1,3-Dichloropropene	NC	0.45 U	0.44 U	0.44 U	0.43 U	33	0	0%	0	0%	< 0.37	< 690
cis-1,3-Dichloropropene	NC	0.41 U	0.4 U	0.4 U	0.39 U	33	0	0%	0	0%	< 0.33	< 250
1,1,2-Trichloroethane	NC	0.36 U	0.36 U	0.36 U	0.35 U	33	0	0%	0	0%	< 0.3	< 840
2-Hexanone	NC	4.5 U	4.4 U	4.4 U	4.3 U	33	0	0%	0	0%	< 3.6	< 1,100
Dibromochloromethane	NA	0.28 U	0.28 U	0.28 U	0.27 U	33	0	0%	0	0%	< 0.23	< 610
1,2-Dibromoethane	NC	0.5 U	0.49 U	0.49 U	0.48 U	33	0	0%	0	0%	< 0.41	< 1,000
Tetrachloroethene	1,400	0.9 U	0.89 U	0.88 U	0.86 U	33	2	6%	0	0%	< 0.74	< 540
Chlorobenzene	1,700	0.45 U	0.44 U	0.44 U	0.43 U	33	0	0%	0	0%	< 0.37	< 600
Ethyl Benzene	5,500	0.44 U	2.7 J	0.43 U	2.8 J	33	11	33%	4	12%	< 0.36	70,000
m/p-Xylenes	1,200	2.1 J	13	4.4 J	15	33	15	45%	4	12%	< 0.87	320,000
o-Xylene	600	0.47 U	4 J	1.2 J	5.1 J	33	11	33%	3	9%	< 0.39	120,000
Styrene	NC	0.57 U	0.56 U	0.56 U	0.54 U	33	0	0%	0	0%	< 0.46	< 560
Bromoform	NC	0.38 U	0.38 U	0.38 U	0.37 U	33	0	0%	0	0%	< 0.31	< 410
Isopropylbenzene	2,300	4.1 J	0.51 U	0.5 U	0.49 U	33	7	21%	4	12%	< 0.42	28,000
1,1,2,2-Tetrachloroethane	600	0.38 U	0.38 U	0.38 U	0.37 U	33	0	0%	0	0%	< 0.31	< 800
1,3-Dichlorobenzene	1,600	0.69 U	0.68 U	0.68 U	0.66 U	33	0	0%	0	0%	< 0.56	< 600
1,4-Dichlorobenzene	8,500	0.67 U	0.66 U	0.66 U	0.65 U	33	2	6%	0	0%	< 0.55	< 630
1,2-Dichlorobenzene	7,900	0.48 U	0.47 U	0.47 U	0.46 U	33	0	0%	0	0%	< 0.39	< 590
1,2-Dibromo-3-Chloropropane	NC	1.2 U	1.1 U	1.1 U	1.1 U	33	0	0%	0	0%	< 0.95	< 1,500
1,2,4-Trichlorobenzene	3,400	0.84 U	0.83 U	0.83 U	0.81 U	33	0	0%	0	0%	< 0.69	< 470
Total Confident Conc. VOC	10,000	173.9	39.3	26.3	37.0							

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		TP-1B	TP-21B	SB-1	SB-2	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3
Sample Interval (Feet bgs)		1.0 to 1.5	1.0 to 1.5	5.0 to 5.5	1.0 to 1.5	2.0 to 2.5	5 to 7	13 to 15	19 to 20.5	3.0 to 3.5	5 to 7	13 to 15
Sampling Date		05/04/05	05/04/05	05/03/05	05/02/05	05/02/05	05/06/05	05/06/05	05/06/05	04/29/05	05/06/05	05/06/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Duplicate of TP-1B									
Benzaldehyde	NC	75 U	73 UJ	68 U	72 U	73 U	84 U	77 U	87 U	73 UR	74 U	77 U
Phenol	30 or MDL	55 U	54 UJ	50 U	53 U	54 U	62 U	57 U	64 U	54 UR	55 U	57 U
bis(2-Chloroethyl)ether	NC	58 U	57 UJ	52 U	56 U	56 U	65 U	59 U	67 U	57 UR	57 U	59 U
2-Chlorophenol	800	58 U	57 UJ	53 U	56 U	57 U	66 U	60 U	68 U	57 UR	58 U	60 U
2-Methylphenol	100 or MDL	61 U	60 UJ	55 U	59 U	59 U	68 U	62 U	71 U	59 UR	60 U	62 U
2,2-oxybis(1-Chloropropane)	NC	59 U	58 UJ	53 U	57 UR	57 U	66 U	60 U	68 U	58 UR	58 U	60 U
Acetophenone	NC	53 U	52 UJ	48 U	52 U	52 U	60 U	55 U	62 U	52 UR	53 U	55 U
3+4-Methylphenols	900	58 U	56 UJ	52 U	56 U	56 U	65 U	59 U	67 U	56 UR	57 U	59 U
N-Nitroso-di-n-propylamine	NC	60 U	59 UJ	55 U	58 U	59 U	68 U	62 U	70 U	59 UR	60 U	62 U
Hexachloroethane	NC	62 U	61 UJ	56 U	60 U	60 U	70 U	64 U	72 U	61 UR	62 U	64 U
Nitrobenzene	200 or MDL	80 U	78 UJ	72 U	77 U	78 U	90 U	82 U	93 U	78 UR	79 U	82 U
Isophorone	4,400	55 U	54 UJ	50 U	53 U	53 U	62 U	56 U	64 U	54 UR	54 U	56 U
2-Nitrophenol	330 or MDL	56 U	55 UJ	51 U	54 U	55 U	63 U	58 U	65 U	55 UR	56 U	58 U
2,4-Dimethylphenol	NC	58 U	57 UJ	52 U	56 U	56 U	65 U	59 U	67 U	57 UR	58 U	59 U
bis(2-Chloroethoxy)methane	NC	60 U	59 UJ	54 U	58 U	58 U	68 U	62 U	70 U	59 UR	60 U	62 U
2,4-Dichlorophenol	400	68 U	66 UJ	61 U	65 U	66 U	76 U	69 U	79 U	66 UR	67 U	69 U
Naphthalene	13,000	1400	1200	56 U	110 J	61 U	70 U	64 U	11000 D	61 UR	62 U	64 U
4-Chloroaniline	220 or MDL	43 U	43 UJ	39 U	42 U	42 U	49 U	45 U	51 U	43 UR	43 U	45 U
Hexachlorobutadiene	NC	56 U	55 UJ	51 U	54 U	55 U	63 U	58 U	65 U	55 UR	56 U	58 U
Caprolatam	NC	59 U	58 UJ	53 U	57 U	57 U	66 U	60 U	68 U	57 UR	58 U	60 U
4-Chloro-3-methylphenol	240 or MDL	50 U	49 UJ	46 U	49 U	49 U	57 U	52 U	59 U	49 UR	50 U	52 U
2-Methylnaphthalene	36,400	1700	1700	55 U	120 J	59 U	69 U	63 U	5300 D	60 UR	61 U	63 U
Hexachlorocyclopentadiene	NC	58 UJ	57 UJ	53 UJ	56 UJ	57 UJ	66 UJ	60 UJ	68 UJ	57 UJR	58 UJ	60 UJ
2,4,6-Trichlorophenol	NC	54 U	53 UJ	48 U	52 U	52 U	60 U	55 U	62 U	53 UR	53 U	55 U
2,4,5-Trichlorophenol	100	56 UJ	55 UJ	50 U	54 U	54 U	63 U	57 U	65 U	55 UR	55 U	57 U
1,1-Biphenyl	NC	60 U	59 UJ	54 U	58 U	59 U	68 U	62 U	520	59 UR	60 U	62 U
2-Chloronaphthalene	NC	61 U	59 UJ	55 U	58 U	59 U	68 U	62 U	71 U	59 UR	60 U	62 U
2-Nitroaniline	430 or MDL	46 U	45 UJ	42 U	45 U	45 U	52 U	48 U	54 U	45 UR	46 U	48 U
Dimethylphthalate	2,000	59 U	58 UJ	53 U	57 U	57 U	66 U	60 U	68 U	57 UR	58 U	60 U
Acenaphthylene	41,000	59 U	58 UJ	54 U	57 U	58 U	67 U	61 U	250 J	58 UR	59 U	61 U
2,6-Dinitrotoluene	1,000	52 U	51 UJ	47 U	50 U	50 U	58 U	53 U	60 U	51 UR	51 U	53 U
3-Nitroaniline	500 or MDL	48 U	47 UJ	43 U	46 U	46 U	54 U	49 U	55 U	47 UR	47 U	49 U
Acenaphthene	50,000	65 UJ	64 UJ	59 U	76 J	63 U	73 U	67 U	870	64 UR	65 U	67 U
2,4-Dinitrophenol	200 or MDL	310 U	310 UJ	280 U	300 U	300 U	350 U	320 U	360 U	310 UR	310 U	320 U
4-Nitrophenol	100 or MDL	45 U	44 UJ	41 U	44 U	44 U	51 U	46 U	53 U	44 UR	45 U	46 U
Dibenzofuran	6,200	60 U	59 UJ	55 U	100 J	59 U	68 U	62 U	1200	59 UR	60 U	62 U
2,4-Dinitrotoluene	1,000	54 U	53 UJ	48 U	52 U	52 U	60 U	55 U	62 U	53 UR	53 U	55 U
Diethylphthalate	7,100	63 UJ	62 UJ	57 U	61 U	61 U	71 U	65 U	73 U	62 UR	63 U	65 U
4-Chlorophenyl-phenylether	NC	58 U	57 UJ	52 U	56 U	56 U	65 U	59 U	67 U	57 UR	57 U	59 U
Fluorene	50,000	62 U	60 UJ	56 U	64 J	60 U	69 U	63 U	1400	60 UR	61 U	63 U
4-Nitroaniline	NC	62 U	61 UJ	56 U	60 U	61 U	70 U	64 U	73 U	61 UR	62 U	64 U
4,6-Dinitro-2-methylphenol	NC	71 U	69 UJ	64 U	68 U	69 U	80 U	73 U	82 U	69 UR	70 U	73 UJ
N-Nitrosodiphenylamine	NC	60 U	59 UJ	54 U	58 U	59 U	68 U	62 U	70 U	59 UR	60 U	62 U
4-Bromophenyl-phenylether	NC	55 U	53 UJ	49 U	53 U	53 U	61 U	56 U	63 U	53 UR	54 U	56 U
Hexachlorobenzene	410	58 U	57 UJ	53 U	56 U	57 U	66 U	60 U	68 U	57 UR	58 U	60 U
Atrazine	NC	56 U	55 UJ	51 U	54 U	54 U	63 U	57 U	65 U	55 UR	56 U	57 U
Pentachlorophenol	1000 or MDL	85 U	83 UJ	76 U	82 U	82 U	95 U	87 U	98 U	83 UR	84 U	87 U
Phenanthrene	50,000	92 J	88 J	53 U	91 J	280 J	67 J	60 U	3800 JD	57 UR	58 U	83 J
Anthracene	50,000	55 U	54 UJ	50 U	53 U	91 J	62 U	57 U	880	54 UR	55 U	57 U
Carbazole	NC	56 U	55 UJ	50 U	54 U	54 U	63 U	57 U	560	55 UR	55 U	57 U
Di-n-butylphthalate	8,100	56 U	55 UJ	50 U	54 U	54 U	63 U	57 U	65 U	54 UR	55 U	57 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		TP-1B	TP-21B	SB-1	SB-2	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3
Sample Interval (Feet bgs)		1.0 to 1.5	1.0 to 1.5	5.0 to 5.5	1.0 to 1.5	2.0 to 2.5	5 to 7	13 to 15	19 to 20.5	3.0 to 3.5	5 to 7	13 to 15
Sampling Date		05/04/05	05/04/05	05/03/05	05/02/05	05/02/05	05/06/05	05/06/05	05/06/05	04/29/05	05/06/05	05/06/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Duplicate of TP-1B									
Fluoranthene	50,000	54 U	53 UJ	49 U	52 U	250 J	69 J	56 U	1700	53 UR	54 U	56 U
Pyrene	50,000	100 J	100 J	58 U	62 U	380	74 J	66 U	1800	63 UR	64 U	66 U
Butylbenzylphthalate	50,000	280 J	190 J	53 U	57 U	58 U	74 J	130 J	69 U	58 UR	59 U	61 UR
3,3-Dichlorobenzidine	NA	62 U	61 UJ	56 U	60 U	61 U	70 U	64 U	73 U	61 UR	62 U	64 U
Benzo(a)anthracene	224 or MDL	51 U	50 UJ	46 U	49 U	88 J	58 U	52 U	***770***	50 UR	51 U	52 U
Chrysene	400	66 U	64 UJ	59 U	63 U	110 J	74 U	67 U	***660***	64 UR	65 U	67 U
bis(2-Ethylhexyl)phthalate	50,000	410	280 J	63 U	68 U	68 U	150 J	140 J	82 U	69 UR	270 J	72 U
Di-n-octyl phthalate	50,000	62 U	61 UJ	56 U	60 U	61 U	70 U	64 U	72 U	61 UR	62 U	64 U
Benzo(b)fluoranthene	1,100	84 J	84 J	36 U	65 J	180 J	45 U	41 U	460	39 UR	40 U	41 U
Benzo(k)fluoranthene	1,100	80 U	79 UJ	73 U	78 UJ	82 J	91 U	82 U	170 J	79 UR	80 U	82 U
Benzo(a)pyrene	61 or MDL	***79*** J	***74*** J	53 U	***62*** J	***110*** J	66 U	60 U	***480***	57 UR	58 U	60 U
Indeno(1,2,3-cd)pyrene	3,200	100 J	93 J	42 U	45 U	45 U	52 U	48 U	190 J	45 UR	46 U	48 UJ
Dibenz(a,h)anthracene	14 or MDL	46 U	45 UJ	41 U	44 UJ	45 U	52 U	47 U	53 U	45 UR	46 U	47 U
Benzo(g,h,i)perylene	50,000	130 J	110 J	55 U	58 UJ	59 U	68 U	62 U	170 J	59 UR	60 U	62 U
Total Confident Conc. SVOC	500,000	4,375	3,919.0	-	688	1,571	434	270	32,180	-	270	83
Carcinogenic SVOCs in BaP Equivalents		97.4	91.7	ND	68.5	138.7	ND	ND	630.3	ND	ND	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		SB-3	SB-4	SB-4	SB-4	SB-4	SB-4	SB-5A	SB-5A	SB-85A	SB-5A
Sample Interval (Feet bgs)		17 to 19	5.0 to 5.5	7 to 9	9 to 13	17 to 19	19 to 21	17 to 19	19 to 20	19 to 20	26 to 28
Sampling Date		05/06/05	05/03/05	05/05/05	05/05/05	05/05/05	05/05/05	05/02/05	05/02/05	05/02/05	05/03/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	78 U	75 U	75 U	79 U	79 U	840 U	81 U	78 U	79 U	81 U
Phenol	30 or MDL	58 U	55 U	56 U	58 U	58 U	620 U	59 U	57 U	58 U	60 U
bis(2-Chloroethyl)ether	NC	60 U	58 U	58 U	61 U	61 U	650 U	62 U	60 U	61 U	62 U
2-Chlorophenol	800	61 U	58 U	59 U	61 U	61 U	650 U	63 U	60 U	61 U	63 U
2-Methylphenol	100 or MDL	63 U	61 U	61 U	64 U	64 U	680 U	65 U	63 U	64 U	66 U
2,2-oxybis(1-Chloropropane)	NC	61 U	59 U	59 U	62 U	62 U	660 U	63 UR	61 U	62 U	64 U
Acetophenone	NC	56 U	53 U	54 U	56 U	56 U	600 U	57 U	55 U	56 U	58 U
3+4-Methylphenols	900	60 U	58 U	58 U	61 U	61 U	650 U	62 U	60 U	61 U	62 U
N-Nitroso-di-n-propylamine	NC	63 U	60 U	61 U	64 U	64 U	680 U	65 U	63 U	64 U	65 U
Hexachloroethane	NC	65 U	62 U	62 U	65 U	65 U	700 U	67 U	64 U	65 U	67 U
Nitrobenzene	200 or MDL	83 U	80 U	80 U	84 U	84 U	890 U	86 U	83 U	84 U	86 U
Isophorone	4,400	57 U	55 U	55 U	58 U	58 U	620 U	59 U	57 U	58 U	59 U
2-Nitrophenol	330 or MDL	59 U	56 U	57 U	59 U	59 U	630 U	60 U	58 U	59 U	61 U
2,4-Dimethylphenol	NC	61 U	58 U	58 U	61 U	61 U	650 U	62 U	60 U	61 U	63 U
bis(2-Chloroethoxy)methane	NC	63 U	60 U	60 U	63 U	63 U	670 U	65 U	62 U	63 U	65 U
2,4-Dichlorophenol	400	71 U	68 U	68 U	71 U	71 U	760 U	73 U	70 U	71 U	73 U
Naphthalene	13,000	65 U	82 J	63 U	370 J	66 U	***220000*** D	190 J	65 U	66 U	67 U
4-Chloroaniline	220 or MDL	45 U	43 U	44 U	46 U	46 U	490 U	47 U	45 U	46 U	47 U
Hexachlorobutadiene	NC	59 U	56 U	57 U	59 U	59 U	630 U	60 U	58 U	59 U	61 U
Caprolatam	NC	61 U	59 U	59 U	62 U	62 U	660 U	63 U	61 U	62 U	63 U
4-Chloro-3-methylphenol	240 or MDL	53 U	50 U	51 U	53 U	53 U	570 U	54 U	52 U	53 U	54 U
2-Methylnaphthalene	36,400	64 U	61 U	61 U	99 J	64 U	***60000*** D	86 J	63 U	64 U	66 U
Hexachlorocyclopentadiene	NC	61 UJ	58 UJ	59 UJ	61 UJ	61 UJ	650 UJ	63 UJ	60 UJ	61 UJ	63 UJ
2,4,6-Trichlorophenol	NC	56 U	54 U	54 U	56 U	56 U	600 U	58 U	56 U	57 U	58 U
2,4,5-Trichlorophenol	100	58 U	56 U	56 U	59 U	59 U	630 U	60 U	58 U	59 U	60 U
1,1-Biphenyl	NC	63 U	60 U	61 U	63 U	63 U	8600	65 U	62 U	63 U	65 U
2-Chloronaphthalene	NC	63 U	61 U	61 U	64 U	64 U	680 U	65 U	63 U	64 U	65 U
2-Nitroaniline	430 or MDL	48 U	46 U	47 U	49 U	49 U	520 U	50 U	48 U	49 U	50 U
Dimethylphthalate	2,000	61 U	59 U	59 U	62 U	62 U	660 U	63 U	61 U	62 U	63 U
Acenaphthylene	41,000	62 U	59 U	60 U	62 U	62 U	9100	64 U	61 U	63 U	64 U
2,6-Dinitrotoluene	1,000	54 U	52 U	52 U	54 U	54 U	580 U	56 U	54 U	54 U	56 U
3-Nitroaniline	500 or MDL	50 U	48 U	48 U	50 U	50 U	530 U	51 U	49 U	50 U	51 U
Acenaphthene	50,000	68 U	65 U	65 U	68 U	68 U	19000	70 U	67 U	69 U	70 U
2,4-Dinitrophenol	200 or MDL	330 U	310 U	310 U	330 U	330 U	3500 U	340 U	320 U	330 U	340 U
4-Nitrophenol	100 or MDL	47 U	45 U	46 U	48 U	48 U	510 U	49 U	47 U	48 U	49 U
Dibenzofuran	6,200	63 U	60 U	61 U	64 U	63 U	***24000***	65 U	63 U	64 U	65 U
2,4-Dinitrotoluene	1,000	56 U	54 U	54 U	56 U	56 U	600 U	58 U	56 U	57 U	58 U
Diethylphthalate	7,100	66 U	63 UJ	63 U	66 U	66 U	710 U	68 U	65 U	66 U	68 UJ
4-Chlorophenyl-phenylether	NC	60 U	58 U	58 U	61 U	61 U	650 U	62 U	60 U	61 U	62 U
Fluorene	50,000	64 U	62 U	62 U	65 U	65 U	35000 D	66 U	64 U	65 U	67 U
4-Nitroaniline	NC	65 U	62 U	63 U	66 U	66 U	700 U	67 U	65 U	66 U	67 U
4,6-Dinitro-2-methylphenol	NC	74 U	71 U	71 UR	75 U	74 U	790 UR	76 U	73 U	75 U	77 U
N-Nitrosodiphenylamine	NC	63 U	60 U	61 U	63 U	63 U	670 U	65 U	62 U	63 U	65 U
4-Bromophenyl-phenylether	NC	57 U	54 U	55 U	57 U	57 U	610 U	59 U	57 U	58 U	59 U
Hexachlorobenzene	410	61 U	58 U	59 U	61 U	61 U	650 U	63 U	61 U	62 U	63 U
Atrazine	NC	58 U	56 U	56 U	59 U	59 U	630 U	60 U	58 U	59 U	60 U
Pentachlorophenol	1000 or MDL	88 U	84 U	85 U	89 U	89 U	950 U	91 U	88 U	89 U	91 U
Phenanthrene	50,000	61 U	110 J	59 U	65 J	71 J	***110000*** D	63 U	60 U	61 U	63 U
Anthracene	50,000	58 U	55 U	55 U	58 U	58 U	32000 DJ	59 U	57 U	58 U	59 U
Carbazole	NC	58 U	56 U	56 U	59 U	59 U	12000	60 U	58 U	59 U	60 U
Di-n-butylphthalate	8,100	58 U	56 U	56 U	59 U	58 U	620 U	60 U	58 U	59 U	60 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		SB-3	SB-4	SB-4	SB-4	SB-4	SB-4	SB-5A	SB-5A	SB-85A	SB-5A
Sample Interval (Feet bgs)		17 to 19	5.0 to 5.5	7 to 9	9 to 13	17 to 19	19 to 21	17 to 19	19 to 20	19 to 20	26 to 28
Sampling Date		05/06/05	05/03/05	05/05/05	05/05/05	05/05/05	05/05/05	05/02/05	05/02/05	05/02/05	05/03/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Fluoranthene	50,000	57 U	85 J	55 U	57 U	83 J	50000 D	58 U	56 U	57 U	59 U
Pyrene	50,000	67 U	88 J	65 U	68 U	79 J	***54000*** D	69 U	67 U	68 U	70 U
Butylbenzylphthalate	50,000	88 J	59 U	59 U	62 U	62 U	660 U	63 U	61 U	62 U	64 U
3,3-Dichlorobenzidine	NA	65 U	62 U	63 U	66 U	66 U	700 U	67 U	65 U	66 U	67 U
Benzo(a)anthracene	224 or MDL	53 U	51 U	51 U	54 U	59 J	***23000***	55 U	53 U	54 U	55 U
Chrysene	400	68 U	66 U	66 U	69 U	69 U	***20000***	70 U	68 U	69 U	71 U
bis(2-Ethylhexyl)phthalate	50,000	160 J	70 U	84 J	74 U	74 U	790 U	75 U	73 U	74 U	76 U
Di-n-octyl phthalate	50,000	65 U	62 U	63 U	65 U	65 U	700 U	67 U	64 U	66 U	67 U
Benzo(b)fluoranthene	1,100	42 U	44 J	40 U	42 U	49 J	***20000*** J	43 U	42 U	42 U	43 U
Benzo(k)fluoranthene	1,100	84 U	80 U	81 U	85 U	84 U	***6900*** J	86 U	83 U	85 U	87 U
Benzo(a)pyrene	61 or MDL	61 U	58 U	59 U	61 U	61 U	***18000*** J	63 U	61 U	62 U	63 U
Indeno(1,2,3-cd)pyrene	3,200	48 U	46 U	47 U	49 U	49 U	2400 J	50 U	48 U	49 U	50 U
Dibenz(a,h)anthracene	14 or MDL	48 U	46 U	46 U	48 U	48 U	***680*** J	49 U	48 U	48 U	49 U
Benzo(g,h,i)perylene	50,000	63 U	60 U	61 U	64 U	63 U	3600 J	65 U	63 U	64 U	65 U
Total Confident Conc. SVOC	500,000	248	409	84	534	341	***728,280***	276	-	-	-
Carcinogenic SVOCs in BaP Equivalents		ND	4.4	ND	ND	10.8	23,489	ND	ND	ND	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		SB-5A	SB-5B	SB-5B	SB-5B	MW-5B	MW-55B	SB-6	SB-6	SB-6	SB-6	SB-66
Sample Interval (Feet bgs)		31 to 33	10 to 11	11 to 12	21 to 22	34 to 36	34 to 36	10 to 12	13 to 15	19 to 21	24 to 26	24 to 26
Sampling Date		05/03/05	05/02/05	05/02/05	05/02/05	06/07/05	06/07/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO											Duplicate of SB-6
Benzaldehyde	NC	78 U	73 U	72 U	82 U	85 U	82 U	76 U	81 U	83 U	82 U	82 U
Phenol	30 or MDL	58 U	54 U	53 U	60 U	63 U	61 U	56 U	60 U	61 U	60 U	61 U
bis(2-Chloroethyl)ether	NC	60 U	56 U	55 U	63 U	65 U	63 U	58 U	63 U	64 U	63 U	63 U
2-Chlorophenol	800	61 U	56 U	56 U	64 U	66 U	64 U	59 U	63 U	65 U	64 U	64 U
2-Methylphenol	100 or MDL	63 U	59 U	58 U	66 U	69 U	67 U	61 U	66 U	67 U	66 U	67 U
2,2-oxybis(1-Chloropropane)	NC	61 U	57 U	56 UR	64 U	67 U	65 U	59 U	64 U	65 U	64 U	65 U
Acetophenone	NC	56 U	52 U	51 U	58 U	60 U	59 U	54 U	58 U	59 U	58 U	59 U
3+4-Methylphenols	900	60 U	56 U	55 U	63 U	65 U	63 U	58 U	62 U	64 U	63 U	63 U
N-Nitroso-di-n-propylamine	NC	63 U	59 U	58 U	66 U	68 U	66 U	61 U	66 U	67 U	66 U	66 U
Hexachloroethane	NC	65 U	60 U	60 U	68 U	70 U	68 U	63 U	67 U	69 U	68 U	68 U
Nitrobenzene	200 or MDL	83 U	77 U	76 U	87 U	90 U	87 U	81 U	86 U	88 U	87 U	87 U
Isophorone	4,400	57 U	53 U	53 U	60 U	62 U	60 U	55 U	59 U	61 U	60 U	60 U
2-Nitrophenol	330 or MDL	59 U	54 U	54 U	61 U	64 U	62 U	57 U	61 U	62 U	61 U	62 U
2,4-Dimethylphenol	NC	60 U	56 U	56 U	63 U	66 U	64 U	59 U	63 U	64 U	63 U	64 U
bis(2-Chloroethoxy)methane	NC	63 U	58 U	58 U	65 U	68 U	66 U	61 U	65 U	67 U	65 U	66 U
2,4-Dichlorophenol	400	70 U	65 U	65 U	74 U	76 U	74 U	68 U	73 U	75 U	74 U	74 U
Naphthalene	13,000	65 U	73 J	6900 DJ	68 U	71 U	68 U	63 U	6600 D	69 U	68 U	68 U
4-Chloroaniline	220 or MDL	45 U	42 U	42 U	47 U	49 U	48 U	44 U	47 U	48 U	47 U	48 U
Hexachlorobutadiene	NC	59 U	54 U	54 U	61 U	64 U	62 U	57 U	61 U	62 U	61 U	62 U
Caprolatam	NC	61 U	57 U	56 U	64 U	66 U	64 U	59 U	64 U	65 U	64 U	64 U
4-Chloro-3-methylphenol	240 or MDL	53 U	49 U	48 U	55 U	57 U	55 U	51 U	55 U	56 U	55 U	55 U
2-Methylnaphthalene	36,400	64 U	79 J	4700 D	67 U	69 U	67 U	62 U	3800 D	68 U	67 U	67 U
Hexachlorocyclopentadiene	NC	61 UJ	56 UJ	56 UJ	64 UJ	66 UJ	64 UJ	59 UJ	63 UJ	65 UJ	64 UJ	64 UJ
2,4,6-Trichlorophenol	NC	56 U	52 U	51 U	58 U	61 U	59 U	54 U	58 U	60 U	58 U	59 U
2,4,5-Trichlorophenol	100	58 U	54 U	54 U	61 U	63 U	61 U	56 U	61 U	62 U	61 U	61 U
1,1-Biphenyl	NC	63 U	58 U	58 U	66 U	68 U	66 U	61 U	150 J	67 U	66 U	66 U
2-Chloronaphthalene	NC	63 U	59 U	58 U	66 U	69 U	66 U	61 U	66 U	67 U	66 U	66 U
2-Nitroaniline	430 or MDL	48 U	45 U	44 U	51 U	52 U	51 U	47 U	50 U	51 U	51 U	51 U
Dimethylphthalate	2,000	61 U	57 U	56 U	64 U	66 U	64 U	59 U	64 U	65 U	64 U	64 U
Acenaphthylene	41,000	62 U	57 U	57 U	65 U	67 U	65 U	60 U	64 U	66 U	65 U	65 U
2,6-Dinitrotoluene	1,000	54 U	50 U	50 U	56 U	58 U	57 U	52 U	56 U	57 U	56 U	57 U
3-Nitroaniline	500 or MDL	50 U	46 U	46 U	52 U	54 U	52 U	48 U	52 U	53 U	52 U	52 U
Acenaphthene	50,000	68 U	63 U	62 U	71 U	74 U	71 U	66 U	70 U	72 U	71 U	71 U
2,4-Dinitrophenol	200 or MDL	330 U	300 U	300 U	340 U	350 U	340 U	320 U	340 U	350 U	340 U	340 U
4-Nitrophenol	100 or MDL	47 U	44 U	43 U	49 U	51 U	50 U	46 U	49 U	50 U	49 U	50 U
Dibenzofuran	6,200	63 U	58 U	58 U	66 U	68 U	66 U	61 U	65 U	67 U	66 U	66 U
2,4-Dinitrotoluene	1,000	56 U	52 U	51 U	58 U	61 U	59 U	54 U	58 U	60 U	58 U	59 U
Diethylphthalate	7,100	66 U	61 U	60 U	69 U	71 U	69 U	64 U	68 U	70 U	69 U	69 U
4-Chlorophenyl-phenylether	NC	60 U	56 U	55 U	63 U	65 U	63 U	58 U	63 U	64 U	63 U	63 U
Fluorene	50,000	64 U	60 U	79 J	67 U	70 U	68 U	62 U	110 J	68 U	67 U	68 U
4-Nitroaniline	NC	65 U	60 U	60 U	68 U	71 U	68 U	63 U	68 U	69 U	68 U	68 U
4,6-Dinitro-2-methylphenol	NC	74 U	69 U	68 U	77 U	80 U	78 U	72 UR	77 UR	79 UR	77 UR	78 U
N-Nitrosodiphenylamine	NC	63 U	58 U	58 U	66 U	68 U	66 U	61 U	65 U	67 U	66 U	66 U
4-Bromophenyl-phenylether	NC	57 U	53 U	52 U	59 U	62 U	60 U	55 U	59 U	61 U	59 U	60 U
Hexachlorobenzene	410	61 U	57 U	56 U	64 U	66 U	64 U	59 U	63 U	65 U	64 U	64 U
Atrazine	NC	58 U	54 U	54 U	61 U	63 U	61 U	57 U	61 U	62 U	61 U	61 U
Pentachlorophenol	1000 or MDL	88 U	82 U	81 U	92 U	96 U	93 U	85 U	92 U	94 U	92 U	93 U
Phenanthrene	50,000	61 U	56 U	100 J	63 U	66 U	64 U	59 U	120 J	65 U	63 U	64 U
Anthracene	50,000	57 U	53 U	53 U	60 U	62 U	60 U	56 U	60 U	61 U	60 U	60 U
Carbazole	NC	58 U	54 U	53 U	61 U	63 U	61 U	56 U	60 U	62 U	61 U	61 U
Di-n-butylphthalate	8,100	70 J	54 U	53 U	61 U	63 U	61 U	56 U	60 U	62 U	61 U	61 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		**SB-5A**	**SB-5B**	**SB-5B**	**SB-5B**	**MW-5B**	**MW-55B**	**SB-6**	**SB-6**	**SB-6**	**SB-6**	**SB-66**
Sample Interval (Feet bgs)		31 to 33	10 to 11	11 to 12	21 to 22	34 to 36	34 to 36	10 to 12	13 to 15	19 to 21	24 to 26	24 to 26
Sampling Date		05/03/05	05/02/05	05/02/05	05/02/05	06/07/05	06/07/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO											Duplicate of SB-6
Fluoranthene	50,000	57 U	53 U	52 U	59 U	61 U	60 U	55 U	59 U	60 U	59 U	60 U
Pyrene	50,000	67 U	63 U	62 U	70 U	73 U	71 U	65 U	70 U	72 U	70 U	71 U
Butylbenzylphthalate	50,000	62 U	57 U	57 U	64 U	67 U	65 U	60 U	64 U	66 U	64 U	65 U
3,3-Dichlorobenzidine	NA	65 U	60 U	60 U	68 U	71 U	69 U	63 U	68 U	69 U	68 U	69 U
Benzo(a)anthracene	224 or MDL	53 U	49 U	49 U	56 U	58 U	56 U	52 U	55 U	57 U	56 U	56 U
Chrysene	400	68 U	63 U	63 U	71 U	74 U	72 U	66 U	71 U	73 U	71 U	72 U
bis(2-Ethylhexyl)phthalate	50,000	88 J	68 U	92 J	76 U	79 U	77 U	71 U	210 JB	160 J	170 J	140 JB
Di-n-octyl phthalate	50,000	65 U	60 U	60 U	68 U	70 U	68 U	63 U	67 U	69 U	68 U	68 U
Benzo(b)fluoranthene	1,100	42 U	39 U	39 U	44 U	45 U	44 U	41 U	44 U	45 U	44 U	44 U
Benzo(k)fluoranthene	1,100	84 U	78 U	77 U	88 U	91 U	88 U	81 U	87 U	89 U	88 U	88 U
Benzo(a)pyrene	61 or MDL	61 U	57 U	56 U	64 U	66 U	64 U	59 U	63 U	65 U	64 U	64 U
Indeno(1,2,3-cd)pyrene	3,200	48 U	45 U	44 U	51 U	52 U	51 U	47 U	50 U	51 U	51 U	51 U
Dibenz(a,h)anthracene	14 or MDL	48 U	44 U	44 U	50 U	52 U	50 U	46 U	50 U	51 U	50 U	50 U
Benzo(g,h,i)perylene	50,000	63 U	58 U	58 U	66 U	68 U	66 U	61 U	65 U	67 U	66 U	66 U
Total Confident Conc. SVOC	500,000	158	152	11,871	-			-	10,990	160	170	140
Carcinogenic SVOCs in BaP Equivalents		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		**SB-6**							
Sample Interval (Feet bgs)		28.5 to 30.5							
Sampling Date		5/12/2005							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	67 U	33	0	0%	0	0%	< 67	< 840
Phenol	30 or MDL	50 U	33	0	0%	0	0%	< 50	< 620
bis(2-Chloroethyl)ether	NC	52 U	33	0	0%	0	0%	< 52	< 650
2-Chlorophenol	800	52 U	33	0	0%	0	0%	< 52	< 650
2-Methylphenol	100 or MDL	55 U	33	0	0%	0	0%	< 55	< 680
2,2-oxybis(1-Chloropropane)	NC	53 U	33	0	0%	0	0%	< 53	< 660
Acetophenone	NC	48 U	33	0	0%	0	0%	< 48	< 600
3+4-Methylphenols	900	52 U	33	0	0%	0	0%	< 52	< 650
N-Nitroso-di-n-propylamine	NC	54 U	33	0	0%	0	0%	< 54	< 680
Hexachloroethane	NC	56 U	33	0	0%	0	0%	< 56	< 700
Nitrobenzene	200 or MDL	72 U	33	0	0%	0	0%	< 72	< 890
Isophorone	4,400	49 U	33	0	0%	0	0%	< 49	< 620
2-Nitrophenol	330 or MDL	50 U	33	0	0%	0	0%	< 50	< 630
2,4-Dimethylphenol	NC	52 U	33	0	0%	0	0%	< 52	< 650
bis(2-Chloroethoxy)methane	NC	54 U	33	0	0%	0	0%	< 54	< 670
2,4-Dichlorophenol	400	61 U	33	0	0%	0	0%	< 61	< 760
Naphthalene	13,000	56 U	33	11	33%	1	3%	< 56	220,000
4-Chloroaniline	220 or MDL	39 U	33	0	0%	0	0%	< 39	< 490
Hexachlorobutadiene	NC	50 U	33	0	0%	0	0%	< 50	< 630
Caprolatam	NC	53 U	33	0	0%	0	0%	< 53	< 660
4-Chloro-3-methylphenol	240 or MDL	45 U	33	0	0%	0	0%	< 45	< 570
2-Methylnaphthalene	36,400	55 U	33	10	30%	1	3%	< 55	60,000
Hexachlorocyclopentadiene	NC	52 UJ	33	0	0%	0	0%	< 52	< 650
2,4,6-Trichlorophenol	NC	48 U	33	0	0%	0	0%	< 48	< 600
2,4,5-Trichlorophenol	100	50 U	33	0	0%	0	0%	< 50	< 630
1,1-Biphenyl	NC	54 U	33	3	9%	0	0%	< 54	8,600
2-Chloronaphthalene	NC	54 U	33	0	0%	0	0%	< 54	< 680
2-Nitroaniline	430 or MDL	42 U	33	0	0%	0	0%	< 42	< 520
Dimethylphthalate	2,000	53 U	33	0	0%	0	0%	< 53	< 660
Acenaphthylene	41,000	53 U	33	2	6%	0	0%	< 53	9,100
2,6-Dinitrotoluene	1,000	46 U	33	0	0%	0	0%	< 46	< 580
3-Nitroaniline	500 or MDL	43 U	33	0	0%	0	0%	< 43	< 530
Acenaphthene	50,000	58 U	33	3	9%	0	0%	< 58	19,000
2,4-Dinitrophenol	200 or MDL	280 U	33	0	0%	0	0%	< 280	< 3,500
4-Nitrophenol	100 or MDL	41 UJ	33	0	0%	0	0%	< 41	< 510
Dibenzofuran	6,200	54 U	33	3	9%	1	3%	< 54	24,000
2,4-Dinitrotoluene	1,000	48 U	33	0	0%	0	0%	< 48	< 600
Diethylphthalate	7,100	57 U	33	0	0%	0	0%	< 57	< 710
4-Chlorophenyl-phenylether	NC	52 U	33	0	0%	0	0%	< 52	< 650
Fluorene	50,000	55 U	33	5	15%	0	0%	< 55	35,000
4-Nitroaniline	NC	56 U	33	0	0%	0	0%	< 56	< 700
4,6-Dinitro-2-methylphenol	NC	64 U	33	0	0%	0	0%	< 64	< 790
N-Nitrosodiphenylamine	NC	54 U	33	0	0%	0	0%	< 54	< 670
4-Bromophenyl-phenylether	NC	49 U	33	0	0%	0	0%	< 49	< 610
Hexachlorobenzene	410	52 U	33	0	0%	0	0%	< 52	< 650
Atrazine	NC	50 U	33	0	0%	0	0%	< 50	< 630
Pentachlorophenol	1000 or MDL	76 U	33	0	0%	0	0%	< 76	< 950
Phenanthrene	50,000	52 U	33	13	39%	1	3%	< 52	110,000
Anthracene	50,000	50 U	33	3	9%	0	0%	< 50	32,000
Carbazole	NC	50 U	33	2	6%	0	0%	< 50	12,000
Di-n-butylphthalate	8,100	50 U	33	1	3%	0	0%	< 50	620

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-9

Sample Location		SB-6							
Sample Interval (Feet bgs)		28.5 to 30.5							
Sampling Date		5/12/2005							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Fluoranthene	50,000	49 U	33	6	18%	0	0%	< 49	50,000
Pyrene	50,000	58 U	33	8	24%	1	3%	< 58	54,000
Butylbenzylphthalate	50,000	53 U	33	5	15%	0	0%	< 53	660
3,3-Dichlorobenzidine	NA	56 U	33	0	0%	0	0%	< 56	< 700
Benzo(a)anthracene	224 or MDL	46 U	33	4	12%	2	6%	< 46	23,000
Chrysene	400	59 U	33	3	9%	2	6%	< 59	20,000
bis(2-Ethylhexyl)phthalate	50,000	63 U	33	13	39%	0	0%	< 63	790
Di-n-octyl phthalate	50,000	56 U	33	0	0%	0	0%	< 56	< 700
Benzo(b)fluoranthene	1,100	36 U	33	8	24%	1	3%	< 36	20,000
Benzo(k)fluoranthene	1,100	72 U	33	3	9%	1	3%	< 72	6,900
Benzo(a)pyrene	61 or MDL	52 U	33	6	18%	6	18%	< 52	18,000
Indeno(1,2,3-cd)pyrene	3,200	42 U	33	4	12%	0	0%	< 42	2,400
Dibenz(a,h)anthracene	14 or MDL	41 U	33	1	3%	1	3%	< 41	680
Benzo(g,h,i)perylene	50,000	54 U	33	4	12%	0	0%	< 54	3,600
Total Confident Conc. SVOC	500,000	-							
Carcinogenic SVOCs in BaP Equivalents		ND							

Summary of Metals and Cyanide in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-10

Sample Location		TP-1B	TP-21B	SB-1	SB-2	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3
Sample Interval (Feet bgs)		1.0 to 1.5	1.0 to 1.5	5.0 to 5.5	1.0 to 1.5	2.0 to 2.5	5 to 7	13 to 15	19 to 20.5	3.0 to 3.5	5 to 7	13 to 15	17 to 19
Sampling Date		05/04/05	05/04/05	05/03/05	05/02/05	05/02/05	05/06/05	05/06/05	05/06/05	04/29/05	05/06/05	05/06/05	05/06/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO		Duplicate of TP-1B										
Antimony	B	0.366 U	0.763 J	0.33 U	0.35 U	0.804 J	0.412 U	0.373 U	0.581 J	0.358 UR	0.361 U	0.371 U	0.381 U
Arsenic	12	5.7	4.03	0.745 J	4.21	0.776 J	2.7	2.13	7.8	2.47	3.25	2.1	1.49
Beryllium	600	0.346 J	0.374 J	0.176 J	0.344 J	0.274 J	0.674	0.454 J	0.265 J	0.46 J	0.52 J	0.477 J	0.408 J
Cadmium	1	0.227 J	0.036 U	0.033 U	0.035 U	0.035 U	0.041 U	0.038 U	0.042 U	0.036 UR	0.036 U	0.037 U	0.038 U
Chromium	40	13.5	15.4	6.64 J	16.4 J	12.5 J	32.4 J	18.3 J	16.2 J	16.2 J	24.3 J	17.7 J	15 J
Copper	50	26.1	24.6	9.84	16.5	12.7	39.9	20.3	21.3	13.3	26.9	25	25.9
Lead	500	***834***	***773***	1.67	37.1 J	24.5 J	48.8	27.5	***2240***	65.1 J	42.1	5.98	4.68
Mercury	0.1	***0.392*** J	***0.488*** J	0.006 UJ	***0.103***	***0.175***	***0.342*** J	***0.605*** J	***0.41*** J	0.058 J	0.021 J	0.009 J	0.007 U
Nickel	25	8.78	8.9	7.18	18	14.5	18.3	17.1	9.29	14.1	22.5	19.5	17.5
Selenium	3.9	0.381 UJ	0.376 UJ	0.512 J	0.364 U	0.367 U	0.428 U	0.388 U	0.909 J	0.456 J	0.375 U	0.386 U	0.397 U
Silver	B	0.323 J	0.087 U	0.267 J	0.333 J	0.085 U	4.39	0.09 U	1.8	0.274 J	0.087 U	0.089 U	0.092 U
Thallium	B	0.589 U	0.582 U	0.53 U	0.562 U	0.567 U	0.662 U	0.6 U	0.674 U	0.575 UR	0.58 U	0.596 U	0.613 U
Zinc	50	***219***	***106***	13.4	37.2	26.1	***65.1***	***55.6***	***250***	46.6	37.4	39.9	32.7

Sample Location		TP-1B	TP-21B	SB-1	SB-2	SB-2	SB-2	SB-2	SB-2	SB-3	SB-3	SB-3	SB-3
Sample Interval (Feet bgs)		1.0 to 1.5	1.0 to 1.5	5.0 to 5.5	1.0 to 1.5	2.0 to 2.5	5 to 7	13 to 15	19 to 20.5	3.0 to 3.5	5 to 7	13 to 15	17 to 19
Sampling Date		05/04/05	05/04/05	05/03/05	05/02/05	05/02/05	05/06/05	05/06/05	05/06/05	04/29/05	05/06/05	05/06/05	05/06/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO		Duplicate of TP-1B										
Cyanide	NC	2.18 J	1.77	0.508 U	0.539 U	0.543 U	0.628 U	0.569 U	190	0.545 UR	0.556 U	0.577 U	0.581 U
Amenable Cyanide	NC	0.56	0.55	0.51 UJ	0.539 U	0.543 U	0.63 U	0.57 U	0.65 U	0.545 UR	0.56 U	0.58 U	0.58 U

Summary of Metals and Cyanide in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-10

Sample Location		SB-4	SB-4	SB-4	SB-4	SB-4	SB-5A	SB-5A	SB-85A	SB-5A	SB-5A	SB-5B	SB-5B
Sample Interval (Feet bgs)		5.0 to 5.5	7 to 9	9 to 13	17 to 19	19 to 21	17 to 19	19 to 20	19 to 20	26 to 28	31 to 33	10 to 11	11 to 12
Sampling Date		05/03/05	05/05/05	05/05/05	05/05/05	05/05/05	05/02/05	05/02/05	05/02/05	05/03/05	05/03/05	05/02/05	05/02/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO												
Antimony	B	0.485 J	0.363 U	0.382 U	0.557 J	0.411 U	1.17 J	0.379 U	0.388 U	0.81 J	0.382 U	0.691 J	0.352 U
Arsenic	12	2.12	0.458 J	2.01	2.07	1.16 J	0.6 J	1.52	1.57	1.1 J	0.457 U	1.29	0.903 J
Beryllium	600	0.388 J	0.29 J	0.363 J	0.725	0.289 J	0.144 J	0.663	0.811	0.381 J	0.217 J	0.337 J	0.314 J
Cadmium	1	0.036 U	0.307 J	0.038 U	0.038 U	0.309 J	0.039 U	0.038 U	0.039 U	0.039 U	0.22 J	0.035 U	0.035 U
Chromium	40	16.9	16.6 J	19.8 J	30.4 J	21.6 J	9.35 J	25.7 J	31.1 J	18.6	18	14.7 J	18.2 J
Copper	50	***85.3***	15.8	17.3	26.6	15.2	7.26	19.1	24.2	14.4	11	26.8	27.7
Lead	500	77.5	12.8 J	37.7	31.3	130 J	2.94 J	6.95 J	9.66 J	4.08	2.35	10 J	7.18 J
Mercury	0.1	***0.454*** J	***0.359***	***0.499*** J	***0.365*** J	***0.272***	0.007 U	0.009 J	0.014	0.009 J	0.036	0.01 J	0.009 J
Nickel	25	15.3	15.2	18.5	***31.7***	15.7	6.34	17.9	24.7	10.3	10.1	14.1	17.2
Selenium	3.9	0.376 UJ	0.377 U	0.397 U	0.394 U	0.427 U	0.404 U	0.394 U	0.403 U	0.401 UJ	0.397 U	0.365 U	0.431 J
Silver	B	0.319 J	1.04 J	0.092 U	5.76	1.06 J	0.094 U	3.15 J	1.3 J	0.093 U	0.092 U	0.085 U	0.227 J
Thallium	B	0.58 U	0.583 U	0.614 U	0.609 U	0.66 U	0.624 U	0.609 U	0.623 U	0.62 U	0.614 U	0.564 U	0.566 U
Zinc	50	***75***	35.6	44.8	***106***	***68.1***	13.6	39.7	***55.4***	30.2	18.2	32.2 J	30

Sample Location		SB-4	SB-4	SB-4	SB-4	SB-4	SB-5A	SB-5A	SB-85A	SB-5A	SB-5A	SB-5B	SB-5B
Sample Interval (Feet bgs)		5.0 to 5.5	7 to 9	9 to 13	17 to 19	19 to 21	17 to 19	19 to 20	19 to 20	26 to 28	31 to 33	10 to 11	11 to 12
Sampling Date		05/03/05	05/05/05	05/05/05	05/05/05	05/05/05	05/02/05	05/02/05	05/02/05	05/03/05	05/03/05	05/02/05	05/02/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO												
Cyanide	NC	0.556 U	0.564 U	0.588 U	0.59 U	0.627 U	0.604 U	0.577 U	0.591 U	0.6 U	0.583 U	2.89	1.07
Amenable Cyanide	NC	0.56 UJ	0.56 U	0.59 U	0.59 U	5.6	0.604 U	0.577 U	0.591 U	0.6 UJ	0.58 UJ	1.8	0.537 U

Summary of Metals and Cyanide in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-10

Sample Location		**SB-5B**	**MW-5B**	**MW-55B**	**SB-6**	**SB-6**	**SB-6**	**SB-6**	**SB-66**	**SB-6**
Sample Interval (Feet bgs)		21 to 22	34 to 36	34 to 36	10 to 12	13 to 15	19 to 21	24 to 26	24 to 26	28.5 to 30.5
Sampling Date		05/02/05	06/07/05	06/07/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO								Duplicate of SB-6	
Antimony	B	0.386 U	0.417 U	0.398 U	0.738 J	0.397 U	0.396 U	0.392 U	0.396 U	0.379 U
Arsenic	12	2.55	0.499 U	0.476 U	2.71	3.1	4.16	1.59	0.99 J	1.89
Beryllium	600	0.438 J	0.254 J	0.243 J	0.407 J	0.407 J	0.442 J	0.293 J	0.377 J	0.277 J
Cadmium	1	0.039 U	0.042 U	0.04 U	0.33 J	0.04 U	0.04 U	0.039 U	0.04 U	0.114 J
Chromium	40	15.9 J	6.74	6.44	14.9 J	19.2 J	16.5 J	9.91 J	12	11.6 J
Copper	50	17.4	14.5	11.8	17	18.4	21.1	8.74	11.6	11.6
Lead	500	6.34 J	2.29	1.82	27.2	24.1	8.19	2.21	4.8	3.87
Mercury	0.1	0.012	0.023 J	0.038 J	0.013 J	0.026 J	0.015 J	0.007 UJ	0.007 U	0.007 UJ
Nickel	25	16.5	9.8	8.14	15.8	15.7	14.1	10.4	12.5	11.8
Selenium	3.9	0.401 U	0.434 U	0.414 U	0.671 J	0.412 U	0.412 U	0.407 U	0.412 U	0.564 J
Silver	B	0.317 J	0.254 J	0.243 J	1.58	0.096 U	0.095 U	0.094 U	0.095 U	1.42
Thallium	B	0.62 U	0.67 U	0.64 U	0.591 U	0.637 U	0.636 U	0.629 U	0.636 U	0.609 U
Zinc	50	30.2	19.1	13.7	37.1	49.7	43.9	19.1	25.2	20.9

Sample Location		**SB-5B**	**MW-5B**	**MW-55B**	**SB-6**	**SB-6**	**SB-6**	**SB-6**	**SB-66**	**SB-6**
Sample Interval (Feet bgs)		21 to 22	34 to 36	34 to 36	10 to 12	13 to 15	19 to 21	24 to 26	24 to 26	28.5 to 30.5
Sampling Date		05/02/05	06/07/05	06/07/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05	05/12/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO								Duplicate of SB-6	
Cyanide	NC	0.66	0.636 U	0.613 U	3.08 J	1.63	0.616	0.609 U	0.61 U	0.59 U
Amenable Cyanide	NC	0.6 U	0.64 U	0.61 U	1.4 J	0.6 U	0.62 U	0.61 U	0.61 U	0.59 U

Summary of Metals and Cyanide in Subsurface Soil - Area 1
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-10

Sample Location Sample Interval (Feet bgs) Sampling Date Units PP Metals	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	33	9	27%	0	0%	< 0.33	1.17
Arsenic	12	33	30	91%	0	0%	< 0.457	7.8
Beryllium	600	33	33	100%	0	0%	0.144	0.811
Cadmium	1	33	6	18%	0	0%	< 0.033	0.33
Chromium	40	33	33	100%	0	0%	6.44	32.4
Copper	50	33	33	100%	1	3%	7.26	85.3
Lead	500	33	33	100%	3	9%	1.67	2,240
Mercury	0.1	33	27	82%	12	36%	< 0.006	0.605
Nickel	25	33	33	100%	1	3%	6.34	31.7
Selenium	3.9	33	6	18%	0	0%	< 0.364	0.909
Silver	B	33	18	55%	0	0%	< 0.085	5.76
Thallium	B	33	0	0%	0	0%	< 0.53	< 0.674
Zinc	50	33	33	100%	9	27%	13.4	250

Sample Location Sample Interval (Feet bgs) Sampling Date Units	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	33	9	27%	0	0%	< 0.508	190
Amenable Cyanide	NC	33	5	15%	0	0%	< 0.51	5.6

Summary of Field Work and Observations for Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-11

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-7	9-Aug-04	45.5	N/A	7	N/A	19' - 35' bgs: SI MGP-related odor, N/S. Max. PID: 3.7 ppm at 23' - 25' bgs. Bedrock refusal at 45.5' bgs.
MW-7A	10-Aug	17	6 to 16	7	N/A	7' - 17' bgs: Non-MGP related odor, N/S. Max. PID: 1.3 ppm at 7' to 9' bgs.
SB-8	11-Sep	45	N/A	7.5	N/A	1' - 15' bgs: Petroleum odor, sheen, N/S. Max. PID: 406 ppm at 1' - 2' bgs. Bedrock refusal at 45' bgs.
SB-9	18-Sep	34	N/A	9	28.2'-32.3'	1' - 6' bgs: Petroleum odor, N/S. Max. PID: 460 ppm at 4' - 5' bgs. 8'-10' bgs: slight petroleum odor, N/S, max PID: 0.0 ppm 22' - 28' bgs: SI MGP odor, N/S. Max. headspace PID: 750 ppm at 20' - 22' bgs.
SB-10	18-Sep	50	N/A	9	48.6	1' - 6' bgs: Petroleum odor, N/S. Max. PID: 2,862 ppm at 4' - 5' bgs. 6'-10' bgs: strong gasoline/fuel oil odor, N/S, Max PID: 1,200 ppm at 6'-8' bgs. visible brown product at 8.4'-8.8' bgs 10'-14' bgs: slight petroleum odor, N/S, Max PID: 3.0 ppm at 10'-12' bgs 20' - 34' bgs: SI Naphthalene odor. N/S. Max. PID: 5.7 ppm at 20' - 22' bgs. Weathered schist fragments in shoe at 50' bgs.
SB-11	18-Sep	39	N/A	9	29.3'-39.5'	1' - 9' bgs: Petroleum odor, N/S. Max. PID: 2,000 ppm at 1' - 2' bgs. 21' - 33' bgs: MGP-related odor, 23'-29' bgs black staining, sheen and visible OLM, 25'-29' bgs visible TLM, Max. PID: 1,036 ppm at 27'-29' bgs
SB-12	12-Sep	50.75	N/A	9.6	21-29 and 35-37	N/O and N/S.
MW-12A	11-Sep	17	17 to 7	9.6	N/A	N/O and N/S.
MW-12B	12-Sep	49	37 to 47	9.6	21-29 and 35-37	N/O and N/S. MW-12B set in same location as SB-12.
SB-13	10-Oct	35	N/A	7	27-33	11' - 13' bgs: Petroleum odor in shoe, N/S. Max. PID: 30.3 ppm at 11' - 13' bgs.
SB-14A	3-Oct	25	N/A	11	19	1' - 6' bgs: Solvent-like odor, N/S. Max. PID: 244 ppm at 1' - 2' bgs. 7' - 19' bgs: SI petroleum odor, N/S. Max. PID: 135 ppm at 7' - 9' bgs.

Summary of Field Work and Observations for Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-11

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-15	19-Aug	25	N/A	7	19	5' - 13' bgs: Strong petroleum odor, sheen, visible product and black staining. Max. PID: 2,364 ppm at 7' - 9' bgs. 13' - 21' bgs: MGP-related odor, visible OLM and coal tar, sheen and black staining. Max. PID: 587 ppm at 15' - 19' bgs.
SB-16						
SB-17						
SB-18	20-Jul	43	N/A	7	35	21'-23': Musty odor, N/S, PID = 1.5 ppm; 23'-25': Musty odor, N/S, PID = 1.4 ppm; 27'-29': Sl odor in nose of spoon, N/S, PID = 23.8 ppm; 29' - 41' bgs: Sl odor and N/S. Max. PID: 23.9 ppm at 29' - 31' bgs.
SB-53	24-Mar	26	N/A	8	15.9	1'-2': Strong tar odor, some black staining, PID = 1.2 ppm; 2'-4.5': Strong tar odor, black staining, dk blue dye on wood and in soil, PID = 0.0 ppm; 6'-7': Non-MGP related odor, dk blue, staining on wood, PID = 0.0 ppm; 9'-11': Sl MGP-related odor, N/S; 10'-14': Sewage-like odor, N/S, PID = 0.0 ppm; 14'-18': Sewage-like odor, N/S, PID = 0.0 ppm
SB-54	24-Mar	29	N/A	8	21	0.8'-1.0': Tar-like odor, black staining, PID = 0.6 ppm; 1'-2': N/O, tr black staining, PID = 0.7 ppm, 2'-3': Tar-like odor, tr black staining, black, tar covering gravel and cobbles, PID = 1.1 ppm; 3'-4': Tar-like odor, tr black staining, black, tar covering gravel and cobbles, PID = 1.0 ppm; 5'-6.4': Tr solvent-like odor, N/S, PID = 31.8 ppm; 14'-18': Sewage-like odor, N/S, PID = 0.0 ppm;
SB-55	25-Mar	30	N/A	8.5	22	0.8'-2': Tar-like odor and pine odor, N/S, PID = 11.8 ppm; 4'-5': Tr non-MGP related odor, N/S, PID = 0.0 ppm;
TP-2	12-Sep	11	N/A	N/A	N/A	1'-11' bgs: Sl petroleum odor, N/S

Note: Elevations are reported in feet below ground surface (ft bgs).
Soil borings SB-53, SB-54 and SB-55 were drilled inside a building where the top of the slab is approximately 4 feet higher that the street level.

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location		TP2	SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-8	SB-8	SB-9	SB-9	SB-9
Sample Interval (Feet bgs)		10 to 11	6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	11 to 11.5	14.5 to 15	4 to 5	8 to 10	20 to 22
Sampling Date		09/12/04	07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	08/11/04	08/11/04	09/12/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO												
Dichlorodifluoromethane	NC	1.5 U	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.3 U	6.9 U	7.5 U	1.4 U	1.4 U	15
Chloromethane	NC	0.4 U	0.41 U	0.4 U	0.4 U	0.42 U	0.4 U	0.36 U	1.8 U	2 U	0.36 U	0.38 U	4.1
Vinyl Chloride	200	0.28 U	0.29 U	0.28 U	0.28 U	0.3 U	0.28 U	0.26 U	1.3 U	1.4 U	0.26 U	0.27 U	2.9
Bromomethane	NC	0.85 U	0.88 U	0.85 U	0.85 U	0.9 U	0.85 U	0.77 U	3.9 U	4.3 U	0.78 U	0.81 U	8.7
Chloroethane	1,900	0.63 U	0.66 U	0.63 U	0.63 U	0.66 U	0.63 U	0.57 U	2.9 U	3.2 U	0.58 U	0.6 U	6.5
Trichlorofluoromethane	NC	3 U	3.1 U	3 U	3 U	3.1 U	3 U	2.7 U	14 U	15 U	2.7 U	2.8 U	30
1,1,2-Trichlorotrifluoroethane	6,000	0.55 U	0.57 U	0.55 U	0.55 U	0.58 U	0.55 U	0.5 U	2.6 U	2.8 U	0.5 U	0.53 U	5.7
1,1-Dichloroethene	400	0.26 U	0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.23 U	1.2 U	1.3 U	0.24 U	0.25 U	2.7
Acetone	200	32 J	9.3 U	9 U	9 U	9.4 U	44	43	41 UB	***230*** BJ	30 J	54 J	92
Carbon Disulfide	2,700	0.12 U	0.13 U	0.12 U	0.12 U	0.13 U	0.12 U	0.11 U	0.56 U	0.62 U	0.11 U	1.8 J	1.2
Methyl tert-butyl Ether	120	69 J	0.29 U	0.28 U	0.28 U	0.29 U	0.28 U	0.25 U	1.3 U	1.4 U	0.25 U	0.26 U	2.8
Methyl Acetate	NC	1.5 U	1.6 U	1.5 U	1.5 U	1.6 U	1.5 U	1.4 U	7.1 U	7.8 U	1.4 U	1.5 U	16
Methylene Chloride	100	0.82 U	5.3 J	0.82 U	0.82 U	0.86 U	11 J	2.5 J	15 JBU	12 JBU	0.75 U	1.2 J	15
trans-1,2-Dichloroethene	300	0.45 U	0.46 U	0.45 U	0.45 U	0.47 U	0.45 U	0.4 U	2.1 U	2.3 U	0.41 U	0.43 U	4.6
1,1-Dichloroethane	200	0.43 U	0.44 U	0.43 U	0.43 U	0.45 U	0.43 U	0.38 U	2 U	2.2 U	0.39 U	0.41 U	4.4
Cyclohexane	NC	4.2 J	0.38 U	0.37 U	0.37 U	0.39 U	0.37 U	0.33 U	1.7 U	1.9 U	0.34 U	3.5 J	75
2-Butanone	300	2.7 U	2.8 U	2.7 U	2.7 U	2.9 U	2.7 U	2.5 U	13 U	14 U	2.5 U	2.6 U	28
Carbon Tetrachloride	600	0.36 U	0.37 U	0.36 U	0.36 U	0.38 U	0.36 U	0.32 U	1.7 U	1.8 U	0.33 U	0.34 U	3.7
cis-1,2-Dichloroethene	NC	0.42 U	0.44 U	0.42 U	0.42 U	0.45 U	0.42 U	0.38 U	2 U	2.1 U	0.39 U	0.4 U	4.3
Chloroform	300	0.29 U	0.3 U	0.29 U	0.29 U	0.3 U	0.29 U	0.26 U	1.3 U	1.4 U	0.26 U	0.27 U	2.9
1,1,1-Trichloroethane	800	0.33 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.29 U	1.5 U	1.7 U	0.3 U	0.31 U	3.3
Methylcyclohexane	NC	3.9 J	0.44 U	0.43 U	0.43 U	0.45 U	0.43 U	0.39 U	940 J	2.2 U	0.39 U	19	180
Benzene	60	49	0.25 U	0.24 U	0.24 U	0.26 U	0.24 U	0.22 U	44	11 J	0.22 U	9.1	***880***
1,2-Dichloroethane	200	3.7 U	3.8 U	3.7 U	3.7 U	3.9 U	3.7 U	3.3 U	17 U	19 U	3.4 U	3.5 U	38
Trichloroethene	700	0.39 U	0.4 U	0.39 U	0.39 U	0.41 U	0.39 U	0.35 U	1.8 U	2 U	0.35 U	0.37 U	4
1,2-Dichloropropane	NC	0.4 U	0.42 U	0.4 U	0.4 U	0.42 U	0.4 U	0.36 U	1.9 U	2 U	0.37 U	0.39 U	4.1
Bromodichloromethane	NC	0.4 U	0.42 U	0.4 U	0.4 U	0.42 U	0.4 U	0.36 U	1.8 U	2 U	0.37 U	0.38 U	4.1
4-Methyl-2-Pentanone	1,000	2.9 U	3 U	2.9 U	2.9 U	3 U	2.9 U	2.6 U	13 U	15 U	2.6 U	2.8 U	30
Toluene	1,500	1.9 J	0.32 U	0.31 U	0.31 U	0.33 U	0.31 U	0.28 U	1.4 U	1.6 U	0.28 U	1.7 J	770
t-1,3-Dichloropropene	NC	0.31 U	0.32 U	0.31 U	0.31 U	0.32 U	0.31 U	0.28 U	1.4 U	1.6 U	0.28 U	0.29 U	3.2
cis-1,3-Dichloropropene	NC	0.23 U	0.24 U	0.23 U	0.23 U	0.25 U	0.23 U	0.21 U	1.1 U	1.2 U	0.21 U	0.22 U	2.4
1,1,2-Trichloroethane	NC	0.61 U	0.63 U	0.61 U	0.61 U	0.64 U	0.61 U	0.55 U	2.8 U	3.1 U	0.56 U	0.58 U	6.2
2-Hexanone	NC	3.9 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.5 U	18 U	19 U	3.5 U	3.7 U	39
Dibromochloromethane	NA	0.35 U	0.36 U	0.35 U	0.35 U	0.37 U	0.35 U	0.32 U	1.6 U	1.8 U	0.32 U	0.33 U	3.6
1,2-Dibromoethane	NC	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.45 U	2.3 U	2.5 U	0.46 U	0.48 U	5.1
Tetrachloroethene	1,400	0.77 U	0.79 U	0.77 U	0.77 U	0.8 U	0.77 U	0.69 U	3.5 U	4 J	0.7 U	0.73 U	7.8
Chlorobenzene	1,700	0.42 U	0.44 U	0.42 U	0.42 U	0.45 U	0.42 U	0.38 U	2 U	2.1 U	0.39 U	0.4 U	4.3
Ethyl Benzene	5,500	0.3 U	0.31 U	0.3 U	0.3 U	0.32 U	0.3 U	0.27 U	22 J	1.5 U	0.27 U	0.29 U	***9100***
m/p-Xylenes	1,200	6.1	0.64 U	0.62 U	0.62 U	0.65 U	0.62 U	0.56 U	2.9 U	3.1 U	3.1 J	0.59 U	6.3
o-Xylene	600	3.1 J	0.54 U	0.52 U	0.52 U	0.55 U	0.52 U	0.47 U	2.4 U	2.6 U	1.3 J	0.5 U	***1400***
Styrene	NC	0.38 U	0.39 U	0.38 U	0.38 U	0.4 U	0.38 U	0.34 U	1.7 U	1.9 U	0.34 U	0.36 U	3.9
Bromoform	NC	0.36 U	0.37 U	0.36 U	0.36 U	0.38 U	0.36 U	0.32 U	1.7 U	1.8 U	0.33 U	0.34 U	3.7
Isopropylbenzene	2,300	2.7 J	0.46 U	0.45 U	0.45 U	0.47 U	0.45 U	0.4 U	370	30 J	0.41 U	1.4 J	1400
1,1,2,2-Tetrachloroethane	600	0.64 U	0.66 U	0.64 U	0.64 U	0.67 U	0.64 U	0.57 U	2.9 U	3.2 U	0.58 U	0.61 U	6.5
1,3-Dichlorobenzene	1,600	0.25 U	0.26 U	0.25 U	0.25 U	0.27 U	0.25 U	0.23 U	1.2 U	1.3 U	0.23 U	0.24 U	2.6
1,4-Dichlorobenzene	8,500	0.42 U	0.44 U	0.42 U	0.42 U	0.44 U	0.42 U	0.38 U	2 U	2.1 U	0.39 U	0.4 U	4.3
1,2-Dichlorobenzene	7,900	0.49 U	0.51 U	0.49 U	0.49 U	0.52 U	0.49 U	0.44 U	2.3 U	2.5 U	0.45 U	0.47 U	5
1,2-Dibromo-3-Chloropropane	NC	0.82 U	0.85 U	0.82 U	0.82 U	0.86 U	0.82 U	0.74 U	3.8 U	4.1 U	0.74 U	0.78 U	8.4
1,2,4-Trichlorobenzene	3,400	0.3 U	0.31 U	0.3 U	0.3 U	0.32 U	0.3 U	0.27 U	1.4 U	1.5 U	0.27 U	0.29 U	3.1
Total Confident Conc. VOC	10,000	171.9	-	-	-	-	55	43	1,376	275	34.4	91.7	***13,805***

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location			SB-9	SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)			26 to 28	32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29	35 to 37	37 to 39
Sampling Date			09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO													
Dichlorodifluoromethane	NC	U	1.4 U	1.5 U	47 U	460 U	240 U	15 U	1.5 U	14 U	1.5 U	15 U	1.5 U	1.5 U
Chloromethane	NC	U	0.38 U	0.41 U	96 U	950 U	490 U	3.9 U	0.4 U	3.7 U	0.4 U	4.1 U	0.4 U	0.4 U
Vinyl Chloride	200	U	0.27 U	0.29 U	37 U	370 U	190 U	2.8 U	0.29 U	2.6 U	0.28 U	2.9 U	0.28 U	0.28 U
Bromomethane	NC	U	0.82 U	0.88 U	110 U	1100 U	560 U	8.4 U	0.86 U	7.9 U	0.85 U	8.8 U	0.85 U	0.85 U
Chloroethane	1,900	U	0.61 U	0.66 U	120 U	1200 U	630 U	6.2 U	0.64 U	5.8 U	0.63 U	6.6 U	0.63 U	0.63 U
Trichlorofluoromethane	NC	U	2.9 U	3.1 U	81 U	800 U	410 U	29 U	3 U	27 U	3 U	31 U	3 U	3 U
1,1,2-Trichlorotrifluoroethane	6,000	U	0.53 U	0.57 U	97 U	960 U	500 U	5.5 U	0.56 U	5.1 U	0.55 U	5.7 U	0.55 U	0.55 U
1,1-Dichloroethene	400	U	0.25 U	0.27 U	45 U	450 U	230 U	2.6 U	0.26 U	2.4 U	0.26 U	2.7 UJ	0.26 U	0.26 U
Acetone	200	U	14 J	10 J	460 U	4600 U	2400 U	89 U	9.1 U	83 U	57 J	120 J	24 J	13 J
Carbon Disulfide	2,700	U	0.12 U	0.13 U	55 U	540 U	280 U	1.2 U	0.12 U	1.1 U	0.12 U	30 J	0.12 U	0.12 U
Methyl tert-butyl Ether	120	U	4.1 J	1.3 J	50 U	500 U	260 U	***280***	2.2 J	2.5 U	12	***540*** J	2.9 J	2.8 J
Methyl Acetate	NC	U	1.5 U	1.6 U	120 U	1200 U	600 U	15 U	1.6 U	14 U	1.5 U	16 U	1.5 U	1.5 U
Methylene Chloride	100	J	0.79 U	1.6 J	87 U	860 U	450 U	8.1 U	0.83 U	7.6 U	0.82 U	14 J	2.3 J	1.7 J
trans-1,2-Dichloroethene	300	U	0.43 U	0.46 U	72 U	710 U	370 U	4.4 U	0.45 U	4.1 U	0.45 U	4.6 U	0.45 U	0.45 U
1,1-Dichloroethane	200	U	0.41 U	0.44 U	30 U	300 U	150 U	4.2 U	0.43 U	3.9 U	0.43 U	4.4 U	0.43 U	0.43 U
Cyclohexane	NC		0.35 U	0.38 U	52 U	17000 J	13000 J	3.6 U	0.37 U	3.4 U	0.37 U	3.8 U	0.37 U	0.37 U
2-Butanone	300	U	2.6 U	2.8 U	400 U	3900 U	2000 U	27 U	2.8 U	25 U	2.7 U	28 U	2.7 U	2.7 U
Carbon Tetrachloride	600	U	0.35 U	0.37 U	66 U	650 U	340 U	3.5 U	0.36 U	3.3 U	0.36 U	3.7 U	0.36 U	0.36 U
cis-1,2-Dichloroethene	NC	U	0.41 U	0.44 U	110 U	1100 U	550 U	4.2 U	0.43 U	3.9 U	0.42 U	4.4 U	0.42 U	0.42 U
Chloroform	300	U	0.28 U	0.3 U	81 U	800 U	410 U	2.8 U	0.29 U	2.6 U	0.29 U	3 U	0.29 U	0.29 U
1,1,1-Trichloroethane	800	U	0.32 U	0.34 U	57 U	570 U	290 U	3.2 U	0.33 U	3 U	0.33 U	3.4 U	0.33 U	0.33 U
Methylcyclohexane	NC		0.41 U	0.44 U	460 J	24000	21000	4.2 U	0.43 U	3.9 U	94	570 J	0.43 U	0.43 U
Benzene	60		6.2	0.25 U	34 U	***4600*** J	***7200***	***64***	0.25 U	2.2 U	1.5 J	***26000*** D	7.3	0.24 U
1,2-Dichloroethane	200	U	3.6 U	3.8 U	45 U	440 U	230 U	37 U	3.8 U	34 U	3.7 U	38 U	3.7 U	3.7 U
Trichloroethene	700	U	0.37 U	0.4 U	94 U	930 U	480 U	3.8 U	0.39 U	3.6 U	0.39 U	4 U	0.39 U	0.39 U
1,2-Dichloropropane	NC	U	0.39 U	0.42 U	45 U	440 U	230 U	4 U	0.41 U	3.7 U	0.4 U	4.2 U	0.4 U	0.4 U
Bromodichloromethane	NC	U	0.39 U	0.42 U	49 U	480 U	250 U	4 U	0.41 U	3.7 U	0.4 U	4.2 U	0.4 U	0.4 U
4-Methyl-2-Pentanone	1,000	U	2.8 U	3 U	190 U	1800 U	950 U	29 U	2.9 U	27 U	2.9 U	30 U	2.9 U	2.9 U
Toluene	1,500		0.3 U	0.32 U	***2600***	***74000***	***37000***	33 J	0.32 U	2.9 U	0.31 U	***15000*** D	3.1 J	0.31 U
t-1,3-Dichloropropene	NC	U	0.3 U	0.32 U	60 U	590 U	310 U	3 U	0.31 U	2.8 U	0.31 U	3.2 U	0.31 U	0.31 U
cis-1,3-Dichloropropene	NC	U	0.23 U	0.24 U	21 U	210 U	110 U	2.3 U	0.24 U	2.2 U	0.23 U	2.4 U	0.23 U	0.23 U
1,1,2-Trichloroethane	NC	U	0.59 U	0.63 U	73 U	720 U	370 U	6 U	0.62 U	5.6 U	0.61 U	6.3 U	0.61 U	0.61 U
2-Hexanone	NC	U	3.7 U	4 U	93 U	920 U	470 U	38 U	3.9 U	36 U	3.9 U	40 U	3.9 U	3.9 U
Dibromochloromethane	NA	U	0.34 U	0.36 U	53 U	520 U	270 U	3.5 U	0.35 U	3.2 U	0.35 U	3.6 U	0.35 U	0.35 U
1,2-Dibromoethane	NC	U	0.48 U	0.52 U	89 U	880 U	450 U	5 U	0.51 U	4.6 U	0.5 U	5.2 U	0.5 U	0.5 U
Tetrachloroethene	1,400	U	0.74 U	0.79 U	46 U	460 U	240 U	7.6 U	0.77 U	7.1 U	0.77 U	7.9 U	0.77 U	0.77 U
Chlorobenzene	1,700	U	0.41 U	0.44 U	52 U	510 U	260 U	4.2 U	0.43 U	3.9 U	0.42 U	4.4 U	0.42 U	0.42 U
Ethyl Benzene	5,500	D	11	0.31 U	***7700***	***53000***	***24000***	49 J	0.3 U	310	1.9 J	***18000*** D	0.3 U	1.5 J
m/p-Xylenes	1,200	U	0.6 U	0.64 U	***38000***	***250000***	***92000***	190	0.63 U	***1500***	5.7 J	6.4 UJ	0.62 U	0.62 U
o-Xylene	600	J	3.2 J	0.54 U	***18000***	***100000***	***35000***	86	0.53 U	520	10	***11000*** D	0.52 U	1.2 J
Styrene	NC	U	0.36 U	0.39 U	48 U	480 U	250 U	3.7 U	0.38 U	3.5 U	0.38 U	3.9 U	0.38 U	0.38 U
Bromoform	NC	U	0.35 U	0.37 U	35 U	350 U	180 U	3.6 U	0.36 U	3.3 U	0.36 U	3.7 U	0.36 U	0.36 U
Isopropylbenzene	2,300		1.6 J	0.46 U	2200	***13000***	***5600***	4.4 U	0.45 U	140	6.3	1100 J	0.45 U	0.45 U
1,1,2,2-Tetrachloroethane	600	U	0.62 U	0.66 U	70 U	690 U	360 U	6.3 U	0.65 U	5.9 U	0.64 U	6.6 U	0.64 U	0.64 U
1,3-Dichlorobenzene	1,600	U	0.25 U	0.26 U	52 U	520 U	270 U	2.5 U	0.26 U	2.3 U	0.25 U	2.6 U	0.25 U	0.25 U
1,4-Dichlorobenzene	8,500	U	0.41 U	0.44 U	54 U	540 U	280 U	4.2 U	0.43 U	3.9 U	0.42 U	4.4 U	0.42 U	0.42 U
1,2-Dichlorobenzene	7,900	U	0.48 U	0.51 U	51 U	510 U	260 U	4.9 U	0.5 U	4.5 U	0.49 U	5.1 U	0.49 U	0.49 U
1,2-Dibromo-3-Chloropropane	NC	U	0.79 U	0.85 U	130 U	1300 U	670 U	8.1 U	0.83 U	7.5 U	0.82 U	8.5 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	3,400	U	0.29 U	0.31 U	40 U	400 U	210 U	3 U	0.3 U	2.8 U	0.3 U	3.1 U	0.3 U	0.3 U
Total Confident Conc. VOC	10,000		40.1	12.9	***68,960***	***535,600***	***234,800***	702	2.2	2,470	188.4	***72,374***	39.6	20.2

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location		SB-12	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13	SB-13	SB-13	SB-14	SB-14	SB-14
Sample Interval (Feet bgs)		5 to 7	7 to 9	15 to 17	25 to 27	49 to 51	6 to 6.5	25 to 27	25 to 27	27 to 29	4 to 5	11 to 13	17 to 19
Sampling Date		09/11/04	09/11/04	09/11/04	09/12/04	09/12/04	07/12/04	10/10/04	10/10/04	10/10/04	09/11/04	10/03/04	10/03/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO								Blind Duplicate				
Dichlorodifluoromethane	NC	1.3 U	1.3 UJ	1.5 U	1.8 U	1.4 U	1.4 U	1.5 U	1.5 U	1.7 U	1.4 U	1.4 U	1.4 U
Chloromethane	NC	0.34 U	0.34 UJ	0.41 U	0.47 U	0.38 U	0.38 U	0.39 U	0.4 U	0.47 U	0.38 U	0.38 U	0.38 U
Vinyl Chloride	200	0.24 U	0.24 UJ	0.29 U	0.34 U	0.27 U	0.27 U	0.28 U	0.28 U	0.33 U	0.27 U	0.27 U	0.27 U
Bromomethane	NC	0.73 U	0.74 UJ	0.87 U	1 U	0.82 U	0.8 U	0.84 U	0.85 U	1 U	0.8 U	0.81 U	0.8 U
Chloroethane	1,900	0.54 U	0.55 UJ	0.65 U	0.75 U	0.61 U	0.6 U	0.62 U	0.63 U	0.74 U	0.6 U	0.6 U	0.6 U
Trichlorofluoromethane	NC	2.5 U	2.6 UJ	3 U	3.5 U	2.9 U	2.8 U	2.9 U	3 U	3.5 U	2.8 U	2.8 U	2.8 U
1,1,2-Trichlorotrifluoroethane	6,000	0.47 U	0.48 UJ	0.57 U	0.66 U	0.53 U	0.52 U	0.55 U	0.55 U	0.65 U	0.52 U	0.53 U	0.52 U
1,1-Dichloroethene	400	0.22 U	0.22 UJ	0.27 U	0.31 U	0.25 U	0.24 U	0.26 U	0.26 U	0.3 U	0.24 U	0.25 U	0.24 U
Acetone	200	19 J	13 J	46 J	25 J	8.7 U	8.5 U	35 BJ	44 BJ	140 BJ	8.5 U	8.6 U	8.5 U
Carbon Disulfide	2,700	1.7 J	3.4 J	0.12 U	0.14 U	0.12 U	1.3 J	4.7 J	0.12 U	7.4 J	1.3 J	0.12 U	0.11 U
Methyl tert-butyl Ether	120	0.24 U	0.24 UJ	2 J	0.33 U	0.27 U	0.26 U	0.27 U	0.28 U	0.32 U	0.26 U	0.26 U	0.26 U
Methyl Acetate	NC	1.3 U	1.3 UJ	1.6 U	1.8 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.4 U	1.5 U	1.4 U
Methylene Chloride	100	0.7 U	0.71 UJ	0.84 U	0.97 U	1.2 J	0.77 U	3.9 J	1.5 J	22 J	0.77 U	0.78 U	0.77 U
trans-1,2-Dichloroethene	300	0.38 U	0.39 UJ	0.46 U	0.53 U	0.43 U	0.42 U	0.44 U	0.45 U	0.52 U	0.42 U	0.43 U	0.42 U
1,1-Dichloroethane	200	0.36 U	0.37 UJ	0.44 U	0.5 U	0.41 U	0.4 U	0.42 U	0.43 U	0.5 U	0.4 U	0.41 U	0.4 U
Cyclohexane	NC	0.31 U	0.32 UJ	0.38 U	0.44 U	0.35 U	0.35 U	0.36 U	0.37 U	0.43 U	0.35 U	1.8 J	0.35 U
2-Butanone	300	2.3 U	2.4 UJ	2.8 U	3.2 U	2.6 U	2.6 U	2.7 U	2.7 U	3.2 U	2.6 U	2.6 U	2.6 U
Carbon Tetrachloride	600	0.31 U	0.31 UJ	0.37 U	0.43 U	0.35 U	0.34 U	0.35 U	0.36 U	0.42 U	0.34 U	0.34 U	0.34 U
cis-1,2-Dichloroethene	NC	0.36 U	0.37 UJ	0.43 U	0.5 U	0.41 U	0.4 U	0.42 U	0.42 U	0.5 U	0.4 U	0.4 U	0.4 U
Chloroform	300	0.24 U	0.25 UJ	0.29 U	0.34 U	0.28 U	0.27 U	0.28 U	2.5 J	0.33 U	0.27 U	0.27 U	0.27 U
1,1,1-Trichloroethane	800	0.28 U	0.28 UJ	0.33 U	0.39 U	0.32 U	0.31 U	0.32 U	0.33 U	0.38 U	0.31 U	0.31 U	0.31 U
Methylcyclohexane	NC	0.37 U	0.37 UJ	1.4 J	4.5 J	0.41 U	0.4 U	0.42 U	1.6 J	0.5 U	0.4 U	4.6 J	0.4 U
Benzene	60	0.21 U	0.21 UJ	18	***110***	0.23 U	0.23 U	0.24 U	3.8 J	8.8	0.23 U	0.23 U	0.23 U
1,2-Dichloroethane	200	3.2 U	3.2 UJ	3.8 U	4.4 U	3.6 U	3.5 U	3.7 U	3.7 U	4.3 U	3.5 U	3.5 U	3.5 U
Trichloroethene	700	0.33 U	0.33 UJ	0.4 U	0.46 U	0.37 U	0.36 U	0.38 U	0.39 U	0.45 U	0.36 U	0.37 U	0.36 U
1,2-Dichloropropane	NC	0.35 U	0.35 UJ	0.41 U	0.48 U	0.39 U	0.38 U	0.4 U	0.4 U	0.47 U	0.38 U	0.39 U	0.38 U
Bromodichloromethane	NC	0.34 U	0.35 UJ	0.41 U	0.48 U	0.39 U	0.38 U	0.4 U	0.4 U	0.47 U	0.38 U	0.38 U	0.38 U
4-Methyl-2-Pentanone	1,000	2.5 U	2.5 UJ	3 U	3.4 U	2.8 U	2.7 U	2.9 U	2.9 U	3.4 U	2.7 U	2.8 U	2.7 U
Toluene	1,500	0.27 U	1.6 J	8.1	0.37 U	0.3 U	0.29 U	0.31 U	0.31 U	1.9 J	0.29 U	0.3 U	0.29 U
t-1,3-Dichloropropene	NC	0.26 U	0.27 UJ	0.32 U	0.37 U	0.3 U	0.29 U	0.3 U	0.31 U	0.36 U	0.29 U	0.29 U	0.29 U
cis-1,3-Dichloropropene	NC	0.2 U	0.2 UJ	0.24 U	0.28 U	0.23 U	0.22 U	0.23 U	0.23 U	0.27 U	0.22 U	0.22 U	0.22 U
1,1,2-Trichloroethane	NC	0.52 U	0.53 UJ	0.62 U	0.72 U	0.59 U	0.57 U	0.6 U	0.61 U	0.71 U	0.57 U	0.58 U	0.57 U
2-Hexanone	NC	3.3 U	3.3 UJ	3.9 U	4.6 U	3.7 U	3.6 U	3.8 U	3.9 U	4.5 U	3.6 U	3.7 U	3.6 U
Dibromochloromethane	NA	0.3 U	0.3 UJ	0.36 U	0.42 U	0.34 U	0.33 U	0.35 U	0.35 U	0.41 U	0.33 U	0.33 U	0.33 U
1,2-Dibromoethane	NC	0.43 U	0.43 UJ	0.51 U	0.59 U	0.48 U	0.47 U	0.5 U	0.5 U	0.59 U	0.47 U	0.48 U	0.47 U
Tetrachloroethene	1,400	0.65 U	0.66 UJ	0.78 U	0.91 U	0.74 U	0.72 U	0.76 U	0.77 U	0.89 U	0.72 U	0.73 U	0.72 U
Chlorobenzene	1,700	0.36 U	0.37 UJ	0.43 U	0.5 U	0.41 U	0.4 U	0.42 U	0.42 U	0.5 U	0.4 U	0.4 U	0.4 U
Ethyl Benzene	5,500	0.26 U	0.26 UJ	0.31 U	0.36 U	0.29 U	0.28 U	0.3 U	0.3 U	0.35 U	0.28 U	0.29 U	0.28 U
m/p-Xylenes	1,200	0.53 U	4.9 J	0.63 U	4.4 J	0.6 U	0.58 U	0.61 U	0.62 U	5 J	0.58 U	0.59 U	0.58 U
o-Xylene	600	0.45 U	2.2 J	0.53 U	2.6 J	0.5 U	4.4 J	0.51 U	0.52 U	15	4.4 J	0.5 U	0.49 U
Styrene	NC	0.32 U	0.33 UJ	0.39 U	0.45 U	0.36 U	0.36 U	0.37 U	0.38 U	0.44 U	0.36 U	0.36 U	0.36 U
Bromoform	NC	0.31 U	0.31 UJ	0.37 U	0.43 U	0.35 U	0.34 U	0.36 U	0.36 U	0.42 U	0.34 U	0.34 U	0.34 U
Isopropylbenzene	2,300	0.38 U	0.39 UJ	0.46 U	0.53 U	0.43 U	0.42 U	0.44 U	0.45 U	0.52 U	0.42 U	3.1 J	0.42 U
1,1,2,2-Tetrachloroethane	600	0.55 U	0.55 UJ	0.65 U	0.76 U	0.62 U	0.6 U	0.63 U	0.64 U	0.75 U	0.6 U	0.61 U	0.6 U
1,3-Dichlorobenzene	1,600	0.22 U	0.22 UJ	0.26 U	0.3 U	0.25 U	0.24 U	0.25 U	0.25 U	0.3 U	0.24 U	0.24 U	0.24 U
1,4-Dichlorobenzene	8,500	0.36 U	0.37 UJ	0.43 U	0.5 U	0.41 U	0.4 U	0.42 U	0.42 U	0.49 U	0.4 U	0.4 U	0.4 U
1,2-Dichlorobenzene	7,900	0.42 U	0.43 UJ	0.5 U	0.58 U	0.48 U	0.46 U	0.49 U	0.49 U	0.58 U	0.46 U	0.47 U	0.46 U
1,2-Dibromo-3-Chloropropane	NC	0.7 U	0.71 UJ	0.84 U	0.97 U	0.79 U	0.77 U	0.81 U	0.82 U	0.95 U	0.77 U	0.78 U	0.77 U
1,2,4-Trichlorobenzene	3,400	0.26 U	0.26 UJ	0.31 U	0.36 U	0.29 U	0.28 U	0.3 U	0.3 U	0.35 U	0.28 U	0.29 U	0.28 U
Total Confident Conc. VOC	10,000	20.7	25.1	75.5	146.5	1.2	5.7	43.6	53.4	200.1	5.7	9.5	-

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location		SB-14	SB-15	SB-15	SB-15	SB-15	SB-15	SB-15	SB-18	SB-18	SB-18	SB-53	SB-53
Sample Interval (Feet bgs)		23 to 25	4 to 5	5 to 6	7 to 9	11 to 13	17 to 19	23 to 25	7.3 to 7.9	28.5 to 29	42.5 to 43	6 to 7	8.3 to 9.3
Sampling Date		10/03/04	08/18/04	08/18/04	08/19/04	08/19/04	08/19/04	08/19/04	07/21/04	07/21/04	07/21/04	03/24/05	03/24/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
												1	1
Volatile Organic Compounds (ug/Kg)	TAGM RSCO												
Dichlorodifluoromethane	NC	1.8 U	1.4 U	1.4 U	15 U	1.4 U	15 R	20 U	1.5 U	1.5 U	1.9 U	1.6 U	1.5 U
Chloromethane	NC	0.49 U	0.38 U	0.38 U	3.9 U	0.38 U	3.9 R	5.3 U	0.4 U	0.39 U	0.51 U	0.44 U	0.4 U
Vinyl Chloride	200	0.35 U	0.27 U	0.27 U	2.8 U	0.27 U	2.8 R	3.8 U	0.28 U	0.28 U	0.36 U	0.31 U	0.28 U
Bromomethane	NC	1 U	0.81 U	0.8 U	8.3 U	0.82 U	8.3 R	11 U	0.85 U	0.84 U	1.1 U	0.94 U	0.85 U
Chloroethane	1,900	0.77 U	0.6 U	0.6 U	6.2 U	0.61 U	6.2 R	8.5 U	0.63 U	0.62 U	0.81 U	0.7 U	0.63 U
Trichlorofluoromethane	NC	3.6 U	2.8 U	2.8 U	29 U	2.9 U	29 R	40 U	3 U	2.9 U	3.8 U	3.3 U	3 U
1,1,2-Trichlorotrifluoroethane	6,000	0.68 U	0.53 U	0.52 U	5.4 U	0.53 U	5.4 R	7.4 U	0.55 U	0.55 U	0.71 U	0.61 U	0.55 U
1,1-Dichloroethene	400	0.32 U	0.25 U	0.24 U	2.5 U	0.25 U	2.5 R	3.5 U	0.26 U	0.26 U	0.33 U	0.29 U	0.26 U
Acetone	200	28 J	8.6 U	8.5 U	88 U	60 J	88 R	120 R	9 U	25 J	67	9.9 U	27 J
Carbon Disulfide	2,700	3.4 J	0.12 U	0.11 U	1.2 U	3.2 J	1.2 R	42 J	0.12 U	0.12 U	24 J	0.13 U	0.12 U
Methyl tert-butyl Ether	120	0.34 U	0.26 U	0.26 U	2.7 U	0.27 U	2.7 R	3.7 U	0.28 U	0.27 U	0.35 U	0.31 U	0.28 U
Methyl Acetate	NC	1.9 U	1.5 U	1.4 U	15 U	1.5 U	15 R	21 U	1.5 U	1.5 U	2 U	1.7 U	1.5 U
Methylene Chloride	100	1 U	0.78 U	0.77 U	35 J	2.7 J	8 R	47 J	3.2 J	8 J	18 J	5.5 J	0.82 U
trans-1,2-Dichloroethene	300	0.55 U	0.43 U	0.42 U	4.4 U	0.43 U	4.4 R	6 U	0.45 U	0.44 U	0.57 U	0.49 U	0.45 U
1,1-Dichloroethane	200	0.52 U	0.41 U	0.4 U	4.2 U	0.41 U	4.2 R	5.7 U	0.43 U	0.42 U	0.54 U	0.47 U	0.43 U
Cyclohexane	NC	0.45 U	0.35 U	0.35 U	100 J	0.35 U	83 R	4.9 U	0.37 U	4.4 J	0.47 U	0.41 U	0.37 U
2-Butanone	300	3.3 U	2.6 U	2.6 U	27 U	2.6 U	27 R	37 U	2.7 U	2.7 U	3.5 U	3 U	2.7 U
Carbon Tetrachloride	600	0.44 U	0.34 U	0.34 U	3.5 U	0.35 U	3.5 R	4.8 U	0.36 U	0.35 U	0.46 U	0.4 U	0.36 U
cis-1,2-Dichloroethene	NC	0.52 U	0.4 U	0.4 U	4.1 U	0.41 U	43 R	5.7 U	0.42 U	0.42 U	0.54 U	0.47 U	0.42 U
Chloroform	300	0.35 U	0.27 U	0.27 U	2.8 U	0.28 U	2.8 R	3.8 U	0.29 U	0.28 U	0.36 U	0.32 U	0.29 U
1,1,1-Trichloroethane	800	0.4 U	0.31 U	0.31 U	3.2 U	0.32 U	3.2 R	4.4 U	0.33 U	0.32 U	0.42 U	0.36 U	0.33 U
Methylcyclohexane	NC	0.52 U	0.41 U	28000 DJ	380 J	46 J	220 R	5.7 U	0.43 U	9	0.55 U	0.47 U	0.43 U
Benzene	60	0.3 U	0.23 U	0.23 U	2.4 U	0.23 U	***31000*** R	***790***	0.24 U	***170***	6.6 J	7	0.24 U
1,2-Dichloroethane	200	4.5 U	3.5 U	3.5 U	36 U	3.6 U	36 R	50 U	3.7 U	3.7 U	4.7 U	4.1 U	3.7 U
Trichloroethene	700	0.47 U	0.37 U	0.36 U	3.8 U	0.37 U	3.8 R	5.2 U	0.39 U	0.38 U	0.49 U	0.43 U	0.39 U
1,2-Dichloropropane	NC	0.49 U	0.39 U	0.38 U	3.9 U	0.39 U	3.9 R	5.4 U	0.4 U	0.4 U	0.52 U	0.45 U	0.4 U
Bromodichloromethane	NC	0.49 U	0.38 U	0.38 U	3.9 U	0.39 U	3.9 R	5.4 U	0.4 U	0.4 U	0.51 U	0.44 U	0.4 U
4-Methyl-2-Pentanone	1,000	3.5 U	2.8 U	2.7 U	28 U	2.8 U	28 R	39 U	2.9 U	2.9 U	3.7 U	3.2 U	2.9 U
Toluene	1,500	0.38 U	0.3 U	0.29 U	3 U	0.3 U	***99000*** R	4.2 U	0.31 U	250 D	2.5 J	6.6 J	0.31 U
t-1,3-Dichloropropene	NC	0.38 U	0.29 U	0.29 U	3 U	0.3 U	3 R	4.1 U	0.31 U	0.3 U	0.39 U	0.34 U	0.31 U
cis-1,3-Dichloropropene	NC	0.29 U	0.22 U	0.22 U	2.3 U	0.23 U	2.3 R	3.1 U	0.23 U	0.23 U	0.3 U	0.26 U	0.23 U
1,1,2-Trichloroethane	NC	0.74 U	0.58 U	0.57 U	6 U	0.59 U	6 R	8.2 U	0.61 U	0.6 U	0.78 U	0.67 U	0.61 U
2-Hexanone	NC	4.7 U	3.7 U	3.6 U	38 U	3.7 U	38 R	52 U	3.9 U	3.8 U	4.9 U	4.3 U	3.9 U
Dibromochloromethane	NA	0.43 U	0.33 U	0.33 U	3.4 U	0.34 U	3.4 R	4.7 U	0.35 U	0.35 U	0.45 U	0.39 U	0.35 U
1,2-Dibromoethane	NC	0.61 U	0.48 U	0.47 U	4.9 U	0.48 U	4.9 R	6.7 U	0.5 U	0.5 U	0.64 U	0.55 U	0.5 U
Tetrachloroethene	1,400	0.93 U	0.73 U	0.72 R	7.5 U	0.74 U	7.5 R	10 U	0.77 U	6.5	3.5 J	0.85 U	0.77 U
Chlorobenzene	1,700	0.52 U	0.4 U	0.4 R	4.1 U	0.41 U	34 R	5.7 U	0.42 U	0.42 U	0.54 U	0.47 U	0.42 U
Ethyl Benzene	5,500	0.37 U	0.29 U	0.28 R	2.9 U	0.29 U	***66000*** R	460	0.3 U	460 D	4.5 J	0.33 U	0.3 U
m/p-Xylenes	1,200	0.76 U	0.59 U	0.58 R	6 U	0.6 U	***120000*** R	720	0.62 U	580 D	3.4 J	0.33 U	0.3 U
o-Xylene	600	0.64 U	0.5 U	0.49 R	5.1 U	0.5 U	***41000*** R	380	0.52 U	330 D	4.2 J	1.8 J	0.52 U
Styrene	NC	0.46 U	0.36 U	0.36 R	3.7 U	0.36 U	3.7 R	5 U	0.38 U	9.9	0.48 U	0.42 U	0.38 U
Bromoform	NC	0.44 U	0.34 U	0.34 R	3.5 U	0.35 U	3.5 R	4.8 U	0.36 U	0.36 U	0.46 U	0.4 U	0.36 U
Isopropylbenzene	2,300	0.54 U	0.43 U	0.42 UJ	4.4 U	4.3 J	***3100*** R	6 U	0.45 U	220	0.57 U	0.49 U	0.45 U
1,1,2,2-Tetrachloroethane	600	0.78 U	0.61 U	0.6 UJ	6.2 U	0.62 U	6.2 R	8.5 U	0.64 U	0.63 U	0.81 U	0.71 U	0.64 U
1,3-Dichlorobenzene	1,600	0.31 U	0.24 U	0.24 UJ	2.5 U	0.25 U	2.5 R	3.4 U	0.25 U	0.25 U	0.32 U	0.28 U	0.25 U
1,4-Dichlorobenzene	8,500	0.52 U	0.4 U	0.4 UJ	4.1 U	0.41 U	4.1 R	5.7 U	0.42 U	0.42 U	0.54 U	0.47 U	0.42 U
1,2-Dichlorobenzene	7,900	0.6 U	0.47 U	0.46 UJ	4.8 U	0.48 U	4.8 R	6.6 U	0.49 U	0.49 U	0.63 U	0.55 U	0.49 U
1,2-Dibromo-3-Chloropropane	NC	1 U	0.78 U	0.77 UJ	8 U	0.79 U	8 R	11 U	0.82 U	0.81 U	1 U	0.9 U	0.82 U
1,2,4-Trichlorobenzene	3,400	0.37 U	0.29 U	0.28 UJ	2.9 U	0.29 U	2.9 R	4 U	0.3 U	0.3 U	0.38 U	0.33 U	0.3 U
Total Confident Conc. VOC	10,000	31.4	-	***28,000***	515	116.2	***360,480***	2,439	3.2	702.8	133.7	25.2	27

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location		SB-53	SB-54	SB-54	SB-54	SB-54	SB-55	SB-55	SB-55	SB-55	SB-55		
Sample Interval (Feet bgs)		14 to 15	3 to 4	5 to 6	9 to 10	19 to 21	2 to 3	2 to 3	5 to 6	8 to 9	19 to 20		
Sampling Date		03/24/05	03/23/05	03/24/05	03/24/05	03/24/05	03/23/05	03/23/05	03/25/05	03/25/05	03/25/05		
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg		
		1	1	1	1	1	1	1	1	1	1		
Volatile Organic Compounds (ug/Kg)	TAGM RSCO							Blind Duplicate				Number of Samples	Number of Detections
Dichlorodifluoromethane	NC	1.4 U	1.5 U	1.3 U	1.4 U	1.4 U	1.5 U	1.5 U	1.3 U	1.4 U	1.5 U	58	0
Chloromethane	NC	0.37 U	0.4 U	0.36 U	0.38 U	0.38 U	0.39 U	0.41 U	0.35 U	0.37 U	0.4 U	58	0
Vinyl Chloride	200	0.26 U	0.29 U	0.25 U	0.27 U	0.27 U	0.28 U	0.29 U	0.25 U	0.26 U	0.29 U	58	0
Bromomethane	NC	0.8 U	0.86 U	0.76 U	0.81 U	0.8 U	0.83 U	0.87 U	0.75 U	0.8 U	0.86 U	58	0
Chloroethane	1,900	0.59 U	0.64 U	0.56 U	0.6 U	0.6 U	0.62 U	0.65 U	0.56 U	0.59 U	0.64 U	58	0
Trichlorofluoromethane	NC	2.8 U	3 U	2.6 U	2.8 U	2.8 U	2.9 U	3 U	2.6 U	2.8 U	3 U	58	0
1,1,2-Trichlorotrifluoroethane	6,000	0.52 U	0.56 U	0.49 U	0.53 U	0.52 U	0.54 U	0.57 U	0.49 U	0.52 U	0.56 U	58	0
1,1-Dichloroethene	400	0.24 U	0.26 U	0.23 U	0.25 U	0.24 U	0.25 U	0.27 U	0.23 U	0.24 U	0.26 U	58	0
Acetone	200	27 J	17 J	34	14 J	18 J	20 J	11 JB	7.9 U	13 J	30 J	58	33
Carbon Disulfide	2,700	0.11 U	0.12 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U	58	12
Methyl tert-butyl Ether	120	0.26 U	0.28 U	0.25 U	0.26 U	0.26 U	0.27 U	0.28 U	0.24 U	0.26 U	0.28 U	58	10
Methyl Acetate	NC	1.4 U	1.6 U	1.4 U	1.5 U	1.4 U	1.5 U	1.6 U	1.4 U	1.4 U	1.6 U	58	0
Methylene Chloride	100	0.76 U	2.8 J	3.2 J	2.4 J	1.8 J	5.6 J	11 J	3.1 J	1.8 J	3.2 J	58	31
trans-1,2-Dichloroethene	300	0.42 U	0.45 U	0.4 U	0.43 U	0.42 U	0.44 U	0.46 U	0.39 U	0.42 U	0.45 U	58	0
1,1-Dichloroethane	200	0.4 U	0.43 U	0.38 U	0.41 U	0.4 U	0.42 U	0.44 U	0.38 U	0.4 U	0.43 U	58	0
Cyclohexane	NC	0.34 U	0.37 U	0.33 U	0.35 U	0.35 U	0.36 U	0.38 U	0.32 U	0.34 U	0.37 U	58	8
2-Butanone	300	2.6 U	2.8 U	2.4 U	2.6 U	2.6 U	2.7 U	2.8 U	2.4 U	2.6 U	2.8 U	58	0
Carbon Tetrachloride	600	0.33 U	0.36 U	0.32 U	0.34 U	0.34 U	0.35 U	0.37 U	0.32 U	0.33 U	0.36 U	58	0
cis-1,2-Dichloroethene	NC	0.4 U	0.43 U	0.38 U	0.4 U	0.4 U	0.41 U	0.43 U	0.37 U	0.4 U	0.43 U	58	0
Chloroform	300	0.27 U	0.29 U	0.25 U	0.27 U	0.27 U	0.28 U	0.29 U	0.25 U	0.27 U	0.29 U	58	1
1,1,1-Trichloroethane	800	0.3 U	0.33 U	0.29 U	0.31 U	0.31 U	0.32 U	0.33 U	0.29 U	0.3 U	0.33 U	58	0
Methylcyclohexane	NC	0.4 U	0.43 U	0.38 U	0.41 U	0.4 U	0.42 U	0.44 U	0.38 U	0.4 U	0.43 U	58	17
Benzene	60	0.23 U	0.25 U	0.22 U	0.23 U	0.23 U	0.24 U	1.3 J	0.21 U	0.23 U	1.4 J	58	22
1,2-Dichloroethane	200	3.5 U	3.8 U	3.3 U	3.5 U	3.5 U	3.6 U	3.8 U	3.3 U	3.5 U	3.8 U	58	0
Trichloroethene	700	0.36 U	0.39 U	0.34 U	0.37 U	0.36 U	0.38 U	0.4 U	0.34 U	0.36 U	0.39 U	58	0
1,2-Dichloropropane	NC	0.38 U	0.41 U	0.36 U	0.39 U	0.38 U	0.39 U	0.41 U	0.36 U	0.38 U	0.41 U	58	0
Bromodichloromethane	NC	0.37 U	0.41 U	0.36 U	0.38 U	0.38 U	0.39 U	0.41 U	0.35 U	0.37 U	0.41 U	58	0
4-Methyl-2-Pentanone	1,000	2.7 U	2.9 U	2.6 U	2.8 U	2.7 U	2.8 U	3 U	2.6 U	2.7 U	2.9 U	58	0
Toluene	1,500	1.6 J	7.6	2.2 J	0.3 U	0.29 U	8.4	10	0.28 U	0.29 U	0.32 U	58	20
t-1,3-Dichloropropene	NC	0.29 U	0.31 U	0.28 U	0.29 U	0.29 U	0.3 U	0.32 U	0.27 U	0.29 U	0.31 U	58	0
cis-1,3-Dichloropropene	NC	0.22 U	0.24 U	0.21 U	0.22 U	0.22 U	0.23 U	0.24 U	0.21 U	0.22 U	0.24 U	58	0
1,1,2-Trichloroethane	NC	0.57 U	0.62 U	0.54 U	0.58 U	0.57 U	0.6 U	0.62 U	0.54 U	0.57 U	0.62 U	58	0
2-Hexanone	NC	3.6 U	3.9 U	3.4 U	3.7 U	3.6 U	3.8 U	3.9 U	3.4 U	3.6 U	3.9 U	58	0
Dibromochloromethane	NA	0.33 U	0.35 U	0.31 U	0.33 U	0.33 U	0.34 U	0.36 U	0.31 U	0.33 U	0.35 U	58	0
1,2-Dibromoethane	NC	0.47 U	0.51 U	0.45 U	0.48 U	0.47 U	0.49 U	0.51 U	0.44 U	0.47 U	0.51 U	58	0
Tetrachloroethene	1,400	0.71 U	5.2 J	1.4 J	0.73 U	0.72 U	0.75 U	0.78 U	0.68 U	0.71 U	0.77 U	58	5
Chlorobenzene	1,700	0.4 U	0.43 U	0.38 U	0.4 U	0.4 U	0.41 U	0.43 U	0.37 U	0.4 U	0.43 U	58	0
Ethyl Benzene	5,500	0.28 U	2 J	4.4 J	0.29 U	0.28 U	2.7 J	3 J	1.3 J	0.28 U	0.3 U	58	19
m/p-Xylenes	1,200	0.28 U	2 J	4.4 J	0.29 U	0.28 U	2.7 J	3 J	1.3 J	0.28 U	0.3 U	58	19
o-Xylene	600	0.49 U	3.8 J	7.9	0.5 U	0.49 U	4.6 J	5.8 J	2.3 J	0.49 U	0.53 U	58	26
Styrene	NC	0.35 U	0.38 U	0.34 U	0.36 U	0.36 U	0.37 U	0.39 U	0.33 U	0.35 U	0.38 U	58	1
Bromoform	NC	0.34 U	0.36 U	0.32 U	0.34 U	0.34 U	0.35 U	0.37 U	0.32 U	0.34 U	0.36 U	58	0
Isopropylbenzene	2,300	0.42 U	0.45 U	2.3 J	0.43 U	0.42 U	7.3	0.46 U	0.39 U	0.42 U	0.45 U	58	17
1,1,2,2-Tetrachloroethane	600	0.59 U	0.65 U	0.57 U	0.61 U	0.6 U	0.62 U	0.65 U	0.56 U	0.59 U	0.65 U	58	0
1,3-Dichlorobenzene	1,600	0.24 U	0.26 U	0.23 U	0.24 U	0.24 U	0.25 U	0.26 U	0.22 U	0.24 U	0.26 U	58	0
1,4-Dichlorobenzene	8,500	0.39 U	0.43 U	0.38 U	0.4 U	0.4 U	0.41 U	0.43 U	0.37 U	0.39 U	0.43 U	58	0
1,2-Dichlorobenzene	7,900	0.46 U	0.5 U	0.44 U	0.47 U	0.46 U	0.48 U	0.5 U	0.44 U	0.46 U	0.5 U	58	0
1,2-Dibromo-3-Chloropropane	NC	0.76 U	0.83 U	0.73 U	0.78 U	0.77 U	0.8 U	0.84 U	0.72 U	0.76 U	0.83 U	58	0
1,2,4-Trichlorobenzene	3,400	0.28 U	0.3 U	0.27 U	0.29 U	0.28 U	0.29 U	0.31 U	0.27 U	0.28 U	0.3 U	58	0
Total Confident Conc. VOC	10,000	30.4	47.5	67.4	16.4	19.8	61.6	56.1	10.1	14.8	34.6		

Summary of Volatile Organic Compounds in Subsurface Soil -Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-12

Sample Location Sample Interval (Feet bgs) Sampling Date Units Volatile Organic Compounds (ug/Kg)	TAGM RSCO	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	0%	0	0%	< 1.3	< 460
Chloromethane	NC	0%	0	0%	< 0.34	< 950
Vinyl Chloride	200	0%	0	0%	< 0.24	< 370
Bromomethane	NC	0%	0	0%	< 0.73	< 1,100
Chloroethane	1,900	0%	0	0%	< 0.54	< 1,200
Trichlorofluoromethane	NC	0%	0	0%	< 2.5	< 800
1,1,2-Trichlorotrifluoroethane	6,000	0%	0	0%	< 0.47	< 960
1,1-Dichloroethene	400	0%	0	0%	< 0.22	< 450
Acetone	200	57%	1	2%	< 7.9	< 4,600
Carbon Disulfide	2,700	21%	0	0%	< 0.11	< 540
Methyl tert-butyl Ether	120	17%	2	3%	< 0.24	540
Methyl Acetate	NC	0%	0	0%	< 1.3	< 1,200
Methylene Chloride	100	53%	0	0%	< 0.7	< 860
trans-1,2-Dichloroethene	300	0%	0	0%	< 0.38	< 710
1,1-Dichloroethane	200	0%	0	0%	< 0.36	< 300
Cyclohexane	NC	14%	0	0%	< 0.31	17,000
2-Butanone	300	0%	0	0%	< 2.3	< 3,900
Carbon Tetrachloride	600	0%	0	0%	< 0.31	< 650
cis-1,2-Dichloroethene	NC	0%	0	0%	< 0.36	< 1,100
Chloroform	300	2%	0	0%	< 0.24	< 800
1,1,1-Trichloroethane	800	0%	0	0%	< 0.28	< 570
Methylcyclohexane	NC	29%	0	0%	< 0.37	28,000
Benzene	60	38%	9	16%	< 0.21	26,000
1,2-Dichloroethane	200	0%	0	0%	< 3.2	< 440
Trichloroethene	700	0%	0	0%	< 0.33	< 930
1,2-Dichloropropane	NC	0%	0	0%	< 0.35	< 440
Bromodichloromethane	NC	0%	0	0%	< 0.34	< 480
4-Methyl-2-Pentanone	1,000	0%	0	0%	< 2.5	< 1,800
Toluene	1,500	34%	5	9%	< 0.27	74,000
t-1,3-Dichloropropene	NC	0%	0	0%	< 0.26	< 590
cis-1,3-Dichloropropene	NC	0%	0	0%	< 0.2	< 210
1,1,2-Trichloroethane	NC	0%	0	0%	< 0.52	< 720
2-Hexanone	NC	0%	0	0%	< 3.3	< 920
Dibromochloromethane	NA	0%	0	0%	< 0.3	< 520
1,2-Dibromoethane	NC	0%	0	0%	< 0.43	< 880
Tetrachloroethene	1,400	9%	0	0%	< 0.65	460
Chlorobenzene	1,700	0%	0	0%	< 0.36	< 510
Ethyl Benzene	5,500	33%	6	10%	< 0.26	66,000
m/p-Xylenes	1,200	33%	5	9%	< 0.28	250,000
o-Xylene	600	45%	6	10%	< 0.45	100,000
Styrene	NC	2%	0	0%	< 0.32	480
Bromoform	NC	0%	0	0%	< 0.31	< 350
Isopropylbenzene	2,300	29%	3	5%	< 0.38	13,000
1,1,2,2-Tetrachloroethane	600	0%	0	0%	< 0.55	< 690
1,3-Dichlorobenzene	1,600	0%	0	0%	< 0.22	< 520
1,4-Dichlorobenzene	8,500	0%	0	0%	< 0.36	< 540
1,2-Dichlorobenzene	7,900	0%	0	0%	< 0.42	< 510
1,2-Dibromo-3-Chloropropane	NC	0%	0	0%	< 0.7	< 1,300
1,2,4-Trichlorobenzene	3,400	0%	0	0%	< 0.26	< 400
Total Confident Conc. VOC	10,000					

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		TP2	SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-8	SB-8	SB-9	SB-9
Sample Interval (Feet bgs)		10 to 11	6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	11 to 11.5	14.5 to 15	4 to 5	8 to 10
Sampling Date		09/12/04	07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	08/11/04	08/11/04	09/12/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO											
Benzaldehyde	NC	39 U	40 U	39 U	39 U	41 U	38 U	35 U	36 U	39 U	35 U	37 U
Phenol	30 or MDL	16 U	17 U	17 U	16 U	17 U	16 U	15 U	15 U	17 U	15 U	16 U
bis(2-Chloroethyl)ether	NC	19 U	20 U	20 U	19 U	20 U	19 U	17 U	18 U	20 U	18 U	19 U
2-Chlorophenol	800	17 U	18 U	17 U	17 U	18 U	17 U	15 U	16 U	17 U	16 U	16 U
2-Methylphenol	100 or MDL	25 U	26 U	25 U	25 U	26 U	25 U	22 U	23 U	25 U	23 U	24 U
2,2-oxybis(1-Chloropropane)	NC	21 U	22 U	21 U	21 U	22 U	21 U	19 U	20 U	22 U	20 U	20 U
Acetophenone	NC	21 U	21 U	21 U	21 U	22 U	21 U	18 U	19 U	21 U	19 U	20 U
3+4-Methylphenols	900	18 U	19 U	18 U	18 U	19 U	18 U	16 U	17 U	18 U	17 U	17 U
N-Nitroso-di-n-propylamine	NC	17 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	18 U	16 U	17 U
Hexachloroethane	NC	19 U	19 U	19 U	19 U	20 U	19 U	17 U	17 U	19 U	17 U	18 U
Nitrobenzene	200 or MDL	20 U	21 U	20 U	20 U	21 U	20 U	18 U	19 U	20 U	18 U	19 U
Isophorone	4,400	15 U	15 U	15 U	15 U	15 U	15 U	13 U	14 U	15 U	13 U	14 U
2-Nitrophenol	330 or MDL	16 U	16 U	16 U	16 U	17 U	16 U	14 U	15 U	16 U	14 U	15 U
2,4-Dimethylphenol	NC	21 U	22 U	21 U	21 U	22 U	21 U	19 U	20 U	22 U	20 U	20 U
bis(2-Chloroethoxy)methane	NC	18 U	19 U	18 U	18 U	19 U	18 U	16 U	17 U	18 U	16 U	17 U
2,4-Dichlorophenol	400	14 U	14 U	14 U	14 U	15 U	14 U	12 U	13 U	14 U	13 U	13 U
Naphthalene	13,000	8.6 U	8.8 U	8.6 U	8.6 U	9 U	8.5 U	7.7 U	8 U	8.7 U	7.8 U	44 J
4-Chloroaniline	220 or MDL	150 U	150 U	150 U	150 U	150 U	150 U	130 U	140 U	150 U	130 U	140 U
Hexachlorobutadiene	NC	14 U	14 U	14 U	14 U	15 U	14 U	12 U	13 U	14 U	13 U	13 U
Caprolatam	NC	15 U	15 U	15 U	15 U	15 U	14 U	13 U	13 U	15 U	13 U	14 U
4-Chloro-3-methylphenol	240 or MDL	12 U	12 U	12 U	12 U	12 U	12 U	10 U	11 U	12 U	11 U	11 U
2-Methylnaphthalene	36,400	6.8 U	7 U	6.8 U	6.8 U	7.1 U	6.8 U	280 J	2400 D	120 J	6.2 U	6.5 U
Hexachlorocyclopentadiene	NC	9.9 UJ	10 UJ	9.9 UJ	9.9 UJ	10 UJ	9.9 UJ	8.9 UJ	9.2 UJ	10 UJ	9 UJ	9.5 UJ
2,4,6-Trichlorophenol	NC	14 U	15 U	14 U	14 U	15 U	14 U	13 U	13 U	14 U	13 U	14 U
2,4,5-Trichlorophenol	100	26 U	27 U	26 U	26 U	27 U	26 U	23 U	24 U	26 U	24 U	25 U
1,1-Biphenyl	NC	12 U	12 U	12 U	12 U	12 U	12 U	10 U	11 U	12 U	11 U	11 U
2-Chloronaphthalene	NC	8.2 U	8.5 U	8.3 U	8.2 U	8.6 U	8.2 U	7.4 U	7.6 U	8.3 U	7.5 U	7.9 U
2-Nitroaniline	430 or MDL	14 U	15 U	14 U	14 U	15 U	14 U	13 U	13 U	14 U	13 U	14 U
Dimethylphthalate	2,000	9.4 U	9.7 U	9.5 U	9.4 U	9.9 U	9.4 U	8.4 U	8.7 U	9.5 U	8.6 U	9 U
Acenaphthylene	41,000	12 U	12 U	12 U	12 U	12 U	12 U	11 U	11 U	12 U	44 J	11 U
2,6-Dinitrotoluene	1,000	17 U	17 U	17 U	17 U	18 U	17 U	15 U	16 U	17 U	15 U	16 U
3-Nitroaniline	500 or MDL	64 U	66 U	64 U	64 U	67 U	63 U	57 U	59 U	65 U	58 U	61 U
Acenaphthene	50,000	8.7 U	9 U	8.7 U	8.7 U	9.1 U	8.7 U	7.8 U	8.1 U	8.8 U	78 J	39 J
2,4-Dinitrophenol	200 or MDL	17 U	18 U	17 U	17 U	18 U	17 U	16 U	16 U	18 U	16 U	17 U
4-Nitrophenol	100 or MDL	39 U	40 U	39 U	39 U	40 U	38 U	35 U	36 U	39 U	35 U	37 U
Dibenzofuran	6,200	13 U	13 U	13 U	13 U	14 U	13 U	12 U	12 U	13 U	140 J	12 U
2,4-Dinitrotoluene	1,000	7.9 U	8.1 U	7.9 U	7.9 U	8.3 U	7.8 U	7.1 U	7.3 U	8 U	7.2 U	7.5 U
Diethylphthalate	7,100	12 U	13 U	12 U	12 U	13 U	12 U	11 U	11 U	13 U	11 U	12 U
4-Chlorophenyl-phenylether	NC	9.8 U	10 U	9.8 U	9.8 U	10 U	9.7 U	8.8 U	9.1 U	9.9 U	8.9 U	9.4 U
Fluorene	50,000	11 U	12 U	11 U	11 U	12 U	11 U	10 U	170 J	11 U	170 J	11 U
4-Nitroaniline	NC	31 U	32 U	31 U	31 U	32 U	31 U	28 U	29 U	31 U	28 U	30 U
4,6-Dinitro-2-methylphenol	NC	23 U	24 U	23 U	23 U	24 U	23 U	21 U	21 U	23 U	21 U	22 U
N-Nitrosodiphenylamine	NC	10 U	10 U	10 U	10 U	11 U	10 U	9 U	9.3 U	10 U	9.2 U	9.6 U
4-Bromophenyl-phenylether	NC	10 U	11 U	10 U	10 U	11 U	10 U	9.3 U	9.6 U	11 U	9.5 U	9.9 U
Hexachlorobenzene	410	7.4 U	7.6 U	7.4 U	7.4 U	7.8 U	7.4 U	6.6 U	6.8 U	7.5 U	6.8 U	7.1 U
Atrazine	NC	12 U	12 U	12 U	12 U	13 U	12 U	11 U	11 U	12 U	11 U	12 U
Pentachlorophenol	1000 or MDL	12 U	13 U	12 U	12 U	13 U	12 U	11 U	11 U	12 U	11 U	12 U
Phenanthrene	50,000	8.8 U	9.1 U	8.9 U	8.8 U	9.3 U	8.8 U	62 J	680	61 J	700	250 J
Anthracene	50,000	9.4 U	9.7 U	9.5 U	9.4 U	9.9 U	9.4 U	8.4 U	140 J	9.5 U	49 J	91 J
Carbazole	NC	8.7 U	9 U	8.7 U	8.7 U	9.1 U	8.7 U	7.8 U	8.1 U	8.8 U	8 U	8.3 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		TP2	SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-8	SB-8	SB-9	SB-9
Sample Interval (Feet bgs)		10 to 11	6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	11 to 11.5	14.5 to 15	4 to 5	8 to 10
Sampling Date		09/12/04	07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	08/11/04	08/11/04	09/12/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO											
Di-n-butylphthalate	8,100	5.2 U	5.4 U	5.3 U	5.3 U	5.5 U	5.2 U	4.7 U	4.9 U	5.3 U	4.8 U	5 U
Fluoranthene	50,000	5.5 U	5.7 U	5.5 U	5.5 U	5.8 U	5.5 U	4.9 U	5.1 U	5.6 U	740	530
Pyrene	50,000	7 U	7.2 U	7.1 U	7 U	7.4 U	7 U	6.3 U	160 J	7.1 U	690	620
Butylbenzylphthalate	50,000	13 U	14 U	13 U	13 U	14 U	13 U	12 U	12 U	13 U	12 U	13 U
3,3-Dichlorobenzidine	NA	63 U	65 U	64 U	63 U	66 U	63 U	57 U	59 U	64 U	58 U	61 U
Benzo(a)anthracene	224 or MDL	6 U	6.1 U	6 U	6 U	6.3 U	5.9 U	5.3 U	5.5 U	6 U	190 J	***290*** J
Chrysene	400	13 U	13 U	13 U	13 U	13 U	12 U	11 U	12 U	13 U	280 J	260 J
bis(2-Ethylhexyl)phthalate	50,000	66 J	9.3 U	9.1 U	9.1 U	9.5 U	9 U	8.1 U	140 J	49 J	8.3 U	8.7 U
Di-n-octyl phthalate	50,000	9.4 U	9.7 U	9.5 U	9.4 U	9.9 U	9.4 U	8.4 U	8.7 U	9.5 U	8.6 U	9 U
Benzo(b)fluoranthene	1,100	21 U	22 U	21 U	21 U	22 U	21 U	19 U	19 U	21 U	310 J	280 J
Benzo(k)fluoranthene	1,100	13 U	14 U	14 U	13 U	14 U	13 U	12 U	12 U	14 U	160 J	140 J
Benzo(a)pyrene	61 or MDL	6.8 U	7 U	6.8 U	6.8 U	7.1 U	6.8 U	6.1 U	6.3 U	6.9 U	***240*** J	***260*** J
Indeno(1,2,3-cd)pyrene	3,200	9.5 U	9.8 U	9.6 U	9.6 U	10 U	9.5 U	8.6 U	8.8 U	9.7 U	100 J	130 J
Dibenz(a,h)anthracene	14 or MDL	12 U	12 U	12 U	12 U	12 U	12 U	10 U	11 U	12 U	11 U	11 U
Benzo(g,h,i)perylene	50,000	17 U	18 U	17 U	17 U	18 U	17 U	15 U	16 U	17 U	110 J	160 J
Total Confident Conc. SVOC	500,000	66	-	-	-	-	-	342	3,690	230	4,001	3,094
Carcinogenic SVOCs in BaP Equivalents		ND	ND	ND	ND	ND	ND	ND	ND	ND	304.4	334

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-9	SB-9	SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11
Sample Interval (Feet bgs)		20 to 22	26 to 28	32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	40 U	37 U	40 U	72 U	71 U	370 U	38 U	39 U	36 U	39 U
Phenol	30 or MDL	17 U	16 U	17 U	31 U	30 U	160 U	16 U	17 U	15 U	17 U
bis(2-Chloroethyl)ether	NC	20 U	19 U	20 U	36 U	36 U	190 U	19 U	20 U	18 U	20 U
2-Chlorophenol	800	18 U	16 U	18 U	32 U	32 U	160 U	17 U	17 U	16 U	17 U
2-Methylphenol	100 or MDL	***160*** J	24 U	26 U	47 U	46 U	240 U	25 U	25 U	23 U	25 U
2,2-oxybis(1-Chloropropane)	NC	22 U	20 U	22 U	40 U	39 U	200 U	21 U	21 U	20 U	21 U
Acetophenone	NC	21 UJ	20 U	21 U	39 U	38 U	200 U	20 U	21 U	19 U	21 U
3+4-Methylphenols	900	130 J	17 U	19 U	34 U	33 U	170 U	18 U	18 U	17 U	18 U
N-Nitroso-di-n-propylamine	NC	18 U	17 U	18 U	33 U	32 U	170 U	17 U	18 U	16 U	18 U
Hexachloroethane	NC	19 U	18 U	20 U	35 U	35 U	180 U	19 U	19 U	17 U	19 U
Nitrobenzene	200 or MDL	21 UJ	19 U	21 U	37 U	37 U	190 U	20 U	20 U	19 U	20 U
Isophorone	4,400	15 UJ	14 U	15 U	27 U	27 U	140 U	15 U	15 U	14 U	15 U
2-Nitrophenol	330 or MDL	16 UJ	15 U	17 U	30 U	29 U	150 U	16 U	16 U	15 U	16 U
2,4-Dimethylphenol	NC	22 UJ	20 U	22 U	40 U	39 U	200 U	21 U	21 U	20 U	21 U
bis(2-Chloroethoxy)methane	NC	19 UJ	17 U	19 U	34 U	33 U	170 U	18 U	18 U	17 U	18 U
2,4-Dichlorophenol	400	14 UJ	13 U	14 U	26 U	26 U	130 U	14 U	14 U	13 U	14 U
Naphthalene	13,000	***94000*** D	780	75 J	9100 D	9200 D	4000	5600 D	8.6 U	2400	8.6 U
4-Chloroaniline	220 or MDL	150 UJ	140 U	150 U	270 U	270 U	1400 U	140 U	150 U	140 U	150 U
Hexachlorobutadiene	NC	14 UJ	13 U	14 U	26 U	26 U	130 U	14 U	14 U	13 U	14 U
Caprolatam	NC	15 UJ	14 U	15 U	27 U	27 U	140 U	14 U	15 U	14 U	15 U
4-Chloro-3-methylphenol	240 or MDL	12 UJ	11 U	12 U	22 U	22 U	110 U	12 U	12 U	11 U	12 U
2-Methylnaphthalene	36,400	7000 DJ	62 J	7.1 U	9300 D	7100 DJ	2400 J	220 J	6.8 U	2100	6.8 U
Hexachlorocyclopentadiene	NC	10 UJ	9.5 UJ	10 UJ	18 UJ	18 UJ	94 UJ	9.8 UJ	10 UJ	9.2 UJ	10 UJ
2,4,6-Trichlorophenol	NC	15 U	14 U	15 U	27 U	26 U	140 U	14 U	14 U	13 U	14 U
2,4,5-Trichlorophenol	100	27 U	25 U	27 U	49 U	48 U	250 U	26 U	26 U	24 U	26 U
1,1-Biphenyl	NC	880	11 U	12 U	440 J	280 J	110 U	12 U	12 U	11 U	12 U
2-Chloronaphthalene	NC	8.5 U	7.9 U	8.6 U	15 U	15 U	78 U	8.2 U	8.3 U	7.6 U	8.3 U
2-Nitroaniline	430 or MDL	15 U	14 U	15 U	27 U	26 U	140 U	14 U	14 U	13 U	14 U
Dimethylphthalate	2,000	9.7 U	9 U	9.8 U	18 U	17 U	90 U	9.3 U	9.5 U	8.7 U	9.5 U
Acenaphthylene	41,000	290 J	11 U	12 U	22 U	22 U	110 U	12 U	12 U	200 J	12 U
2,6-Dinitrotoluene	1,000	17 U	16 U	18 U	31 U	31 U	160 U	17 U	17 U	16 U	17 U
3-Nitroaniline	500 or MDL	65 U	61 U	66 U	120 U	120 U	610 U	63 U	64 U	59 U	64 U
Acenaphthene	50,000	2500	38 J	9.1 U	990	470 J	83 U	74 J	8.8 U	410	8.8 U
2,4-Dinitrophenol	200 or MDL	18 U	17 U	18 U	33 U	32 U	170 U	17 U	18 U	16 U	18 U
4-Nitrophenol	100 or MDL	40 U	37 U	40 U	72 U	71 U	370 U	38 U	39 U	36 U	39 U
Dibenzofuran	6,200	2600	12 U	14 U	680 J	370 J	120 U	89 J	13 U	680	13 U
2,4-Dinitrotoluene	1,000	8.1 U	7.6 U	8.2 U	15 U	15 U	75 U	7.8 U	7.9 U	7.3 U	7.9 U
Diethylphthalate	7,100	13 U	12 U	13 U	23 U	23 U	120 U	12 U	12 U	12 U	12 U
4-Chlorophenyl-phenylether	NC	10 U	9.4 U	10 U	18 U	18 U	93 U	9.7 U	9.8 U	9.1 U	9.8 U
Fluorene	50,000	2900	42 J	12 U	1200	680 J	110 U	99 J	11 U	1100	11 U
4-Nitroaniline	NC	32 U	30 U	32 U	58 U	57 U	290 U	31 U	31 U	29 U	31 U
4,6-Dinitro-2-methylphenol	NC	24 U	22 U	24 U	43 U	42 U	220 U	23 U	23 U	21 U	23 U
N-Nitrosodiphenylamine	NC	10 U	9.6 U	10 U	19 U	19 U	96 U	9.9 U	10 U	9.3 U	10 U
4-Bromophenyl-phenylether	NC	11 U	10 U	11 U	19 U	19 U	99 U	10 U	10 U	9.6 U	10 U
Hexachlorobenzene	410	7.6 U	7.1 U	7.7 U	14 U	14 U	71 U	7.3 U	7.4 U	6.9 U	7.4 U
Atrazine	NC	12 U	12 U	13 U	22 U	22 U	110 U	12 U	12 U	11 U	12 U
Pentachlorophenol	1000 or MDL	13 U	12 U	13 U	23 U	23 U	120 U	12 U	12 U	11 U	12 U
Phenanthrene	50,000	8500 D	140 J	9.2 U	5300	3200	590 J	290 J	8.9 U	4500 D	89 J
Anthracene	50,000	2900 D	56 J	9.8 U	1800	1100	90 U	100 J	9.5 U	1000	9.5 U
Carbazole	NC	1100	8.4 U	9.1 U	640 J	280 J	83 U	100 J	8.8 U	410	8.8 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-9	SB-9	SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11
Sample Interval (Feet bgs)		20 to 22	26 to 28	32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Di-n-butylphthalate	8,100	5.4 U	5 U	5.5 U	9.8 U	9.7 U	50 U	5.2 U	5.3 U	4.9 U	5.3 U
Fluoranthene	50,000	5700 D	100 J	5.7 U	5300	3100	650 J	170 J	5.5 U	4300 D	64 J
Pyrene	50,000	5500 D	100 J	7.3 U	6800 D	3600	790 J	170 J	7.1 U	4300 D	73 J
Butylbenzylphthalate	50,000	14 U	13 U	14 U	25 U	24 U	130 U	13 U	13 U	12 U	13 U
3,3-Dichlorobenzidine	NA	65 U	61 U	66 U	120 U	120 U	600 U	63 U	64 U	59 U	64 U
Benzo(a)anthracene	224 or MDL	***2900***	39 J	6.2 U	***2700***	***1600***	57 U	68 J	6 U	***2000***	6 U
Chrysene	400	***2500***	50 J	13 U	***2300***	***1200***	120 U	75 J	13 U	***1800***	13 U
bis(2-Ethylhexyl)phthalate	50,000	9.3 U	43 J	74 J	17 U	170 J	86 U	54 J	69 J	8.4 U	78 J
Di-n-octyl phthalate	50,000	9.7 U	9 U	9.8 U	18 U	17 U	90 U	9.3 U	9.5 U	8.7 U	9.5 U
Benzo(b)fluoranthene	1,100	***2200***	20 U	22 U	***2700***	***1400***	500 J	56 J	21 U	***2200***	21 U
Benzo(k)fluoranthene	1,100	***1300*** J	13 U	14 U	***1200*** J	800 J	130 U	13 U	14 U	830 J	14 U
Benzo(a)pyrene	61 or MDL	***2000***	6.5 U	7.1 U	***2400***	***1200***	65 U	49 J	6.8 U	***1700***	6.8 U
Indeno(1,2,3-cd)pyrene	3,200	440	9.2 U	9.9 U	750	210 J	91 U	9.5 U	9.6 U	740	9.6 U
Dibenz(a,h)anthracene	14 or MDL	***95*** J	11 U	12 U	***120*** J	21 U	110 U	11 U	12 U	***120*** J	12 U
Benzo(g,h,i)perylene	50,000	490	16 U	18 U	1000	370 J	160 U	17 U	17 U	750	17 U
Total Confident Conc. SVOC	500,000	146,085	1,450	149	54,720	36,330	8,930	7,214	69	31,540	304
Carcinogenic SVOCs in BaP Equivalents		2,687	4.4	ND	3,170	1,541	50	62.2	ND	2,340.3	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-11	SB-11	SB-11	SB-12	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13
Sample Interval (Feet bgs)		27 to 29	35 to 37	37 to 39	5 to 7	7 to 9	15 to 17	25 to 27	49 to 51	6 to 6.5	25 to 27
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/11/04	09/11/04	09/12/04	09/12/04	07/12/04	10/10/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	81 U	39 U	39 U	33 U	33 U	39 U	45 U	37 U	38 UJ	38 U
Phenol	30 or MDL	34 U	16 U	17 U	14 U	14 U	17 U	19 U	16 U	16 UJ	16 U
bis(2-Chloroethyl)ether	NC	41 U	19 U	20 U	17 U	17 U	20 U	23 U	19 U	19 UJ	19 U
2-Chlorophenol	800	36 U	17 U	17 U	15 U	15 U	17 U	20 U	17 U	17 UJ	17 U
2-Methylphenol	100 or MDL	52 U	25 U	25 U	21 U	22 U	25 U	29 U	24 U	25 UJ	25 U
2,2-oxybis(1-Chloropropane)	NC	45 UJ	21 U	21 U	18 U	18 U	22 U	25 U	21 U	21 UJ	21 U
Acetophenone	NC	43 UJ	21 U	21 U	18 U	18 U	21 U	24 U	20 U	20 UJ	21 U
3+4-Methylphenols	900	***1500***	18 U	18 U	16 U	16 U	18 U	21 U	18 U	18 UJ	18 U
N-Nitroso-di-n-propylamine	NC	36 U	17 U	18 U	15 U	15 U	18 U	20 U	17 U	17 UJ	17 U
Hexachloroethane	NC	39 U	19 U	19 U	16 U	16 U	19 U	22 U	18 U	19 UJ	19 U
Nitrobenzene	200 or MDL	42 UJ	20 U	20 U	17 U	17 U	20 U	24 U	19 U	20 UJ	20 U
Isophorone	4,400	31 UJ	15 U	15 U	13 U	13 U	15 U	17 U	14 U	15 UJ	15 U
2-Nitrophenol	330 or MDL	33 UJ	16 U	16 U	14 U	14 U	16 U	19 U	15 U	16 UJ	16 U
2,4-Dimethylphenol	NC	45 UJ	21 U	21 U	18 U	18 U	22 U	25 U	21 U	21 UJ	21 U
bis(2-Chloroethoxy)methane	NC	38 UJ	18 U	18 U	15 U	16 U	18 U	21 U	17 U	18 UJ	18 U
2,4-Dichlorophenol	400	29 UJ	14 U	14 U	12 U	12 U	14 U	16 U	13 U	14 UJ	14 U
Naphthalene	13,000	***1300000*** DJ	280 J	8.6 U	7.4 U	48 J	8.7 U	10 U	8.3 U	8.5 UJ	8.5 U
4-Chloroaniline	220 or MDL	300 UJ	150 U	150 U	130 U	130 U	150 U	170 U	140 U	140 UJ	150 U
Hexachlorobutadiene	NC	29 UJ	14 U	14 U	12 U	12 U	14 U	16 U	13 U	14 UJ	14 U
Caprolatam	NC	30 UJ	15 U	15 U	12 U	13 U	15 U	17 U	14 U	14 UJ	14 U
4-Chloro-3-methylphenol	240 or MDL	24 UJ	12 U	12 U	10 U	10 U	12 U	14 U	11 U	12 UJ	12 U
2-Methylnaphthalene	36,400	***63000*** DJ	6.8 U	6.8 U	5.8 U	5.9 U	6.9 U	8 U	6.6 U	6.7 UJ	6.8 U
Hexachlorocyclopentadiene	NC	21 UJR	9.9 UJ	10 UJ	8.5 UJ	8.6 UJ	10 UJ	12 UJ	9.6 UJ	9.8 UJ	9.8 UJ
2,4,6-Trichlorophenol	NC	30 U	14 U	14 U	12 U	12 U	15 U	17 U	14 U	14 UJ	14 U
2,4,5-Trichlorophenol	100	54 U	26 U	26 U	22 U	23 U	27 U	31 U	25 U	26 UJ	26 U
1,1-Biphenyl	NC	7700 D	12 U	12 U	10 U	10 U	12 U	14 U	11 U	12 UJ	12 U
2-Chloronaphthalene	NC	17 U	8.2 U	8.3 U	7.1 U	7.1 U	8.4 U	9.7 U	8 U	8.1 UJ	8.2 U
2-Nitroaniline	430 or MDL	30 U	14 U	14 U	12 U	12 U	15 U	17 U	14 U	14 UJ	14 U
Dimethylphthalate	2,000	20 U	9.4 U	9.5 U	8.1 U	8.1 U	9.6 U	11 U	9.1 U	9.3 UJ	9.4 U
Acenaphthylene	41,000	6400	12 U	12 U	10 U	57 J	12 U	14 U	11 U	12 UJ	12 U
2,6-Dinitrotoluene	1,000	35 U	17 U	17 U	14 U	15 U	17 U	20 U	16 U	17 UJ	17 U
3-Nitroaniline	500 or MDL	130 U	64 U	64 U	55 U	55 U	65 U	75 U	62 U	63 UJ	63 U
Acenaphthene	50,000	12000 D	8.7 U	8.8 U	7.5 U	49 J	8.9 U	10 U	8.4 U	8.6 UJ	8.7 U
2,4-Dinitrophenol	200 or MDL	36 U	17 U	18 U	15 U	15 U	18 U	20 U	17 U	17 UJ	17 U
4-Nitrophenol	100 or MDL	80 U	39 U	39 U	33 U	33 R	39 U	45 U	37 U	38 UJ	38 U
Dibenzofuran	6,200	***15000*** D	13 U	13 U	11 U	70 J	13 U	15 U	13 U	13 UJ	13 U
2,4-Dinitrotoluene	1,000	16 U	7.9 U	7.9 U	6.8 U	6.8 U	8 U	9.2 U	7.6 U	7.8 UJ	7.8 U
Diethylphthalate	7,100	26 U	12 U	12 U	11 U	11 U	13 U	15 U	12 U	12 UJ	12 U
4-Chlorophenyl-phenylether	NC	20 U	9.8 U	9.8 U	8.4 U	8.5 U	10 U	11 U	9.5 U	9.7 UJ	9.7 U
Fluorene	50,000	18000 D	11 U	11 U	9.6 U	110 J	11 U	13 U	11 U	11 UJ	11 U
4-Nitroaniline	NC	64 U	31 U	31 U	27 U	27 U	31 U	36 U	30 U	31 UJ	31 U
4,6-Dinitro-2-methylphenol	NC	48 UJ	23 U	23 U	20 U	20 U	23 U	27 U	22 U	23 UJ	23 U
N-Nitrosodiphenylamine	NC	21 U	10 U	10 U	8.6 U	8.7 U	10 U	12 U	9.7 U	9.9 UJ	10 U
4-Bromophenyl-phenylether	NC	22 U	10 U	10 U	8.9 U	9 U	11 U	12 U	10 U	10 UJ	10 U
Hexachlorobenzene	410	15 U	7.4 U	7.4 U	6.3 U	6.4 U	7.5 U	8.7 U	7.2 U	7.3 UJ	7.4 U
Atrazine	NC	25 U	12 U	12 U	10 U	10 U	12 U	14 U	12 U	12 UJ	12 U
Pentachlorophenol	1000 or MDL	26 U	12 U	12 U	11 U	11 U	13 U	14 U	12 U	12 UJ	12 U
Phenanthrene	50,000	***63000*** D	8.8 U	8.9 U	80 J	560	9 U	10 U	8.6 U	8.7 UJ	8.8 U
Anthracene	50,000	19000 D	9.4 U	9.5 U	35 J	150 J	9.6 U	11 U	9.1 U	9.3 UJ	9.4 U
Carbazole	NC	6300 D	8.7 U	8.8 U	7.5 U	60 J	8.9 U	10 U	8.4 U	8.6 UJ	8.7 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-11	SB-11	SB-11	SB-12	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13
Sample Interval (Feet bgs)		27 to 29	35 to 37	37 to 39	5 to 7	7 to 9	15 to 17	25 to 27	49 to 51	6 to 6.5	25 to 27
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/11/04	09/11/04	09/12/04	09/12/04	07/12/04	10/10/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Di-n-butylphthalate	8,100	11 U	5.3 U	5.3 U	4.5 U	4.5 U	5.3 U	6.2 U	5.1 U	5.2 UJ	5.2 U
Fluoranthene	50,000	40000 JD	5.5 U	5.5 U	120 J	570	5.6 U	6.4 U	42 J	5.4 UJ	5.5 U
Pyrene	50,000	32000 D	7 U	7.1 U	120 J	430	7.2 U	8.3 U	6.8 U	7 UJ	7 U
Butylbenzylphthalate	50,000	28 U	13 U	13 U	34 J	45 J	13 U	16 U	13 U	13 UJ	13 U
3,3-Dichlorobenzidine	NA	130 U	63 U	64 U	54 U	55 U	65 U	74 U	61 U	63 UJ	63 U
Benzo(a)anthracene	224 or MDL	***16000*** D	6 U	6 U	52 J	***240*** J	6.1 U	7 U	5.8 U	5.9 UJ	5.9 U
Chrysene	400	***13000*** D	13 U	13 U	64 J	200 J	13 U	15 U	12 U	12 UJ	12 U
bis(2-Ethylhexyl)phthalate	50,000	19 U	88 J	9.1 U	390	380	63 J	57 J	42 J	48 J	89 J
Di-n-octyl phthalate	50,000	20 U	9.4 U	9.5 U	8.1 U	140 J	9.6 U	11 U	9.1 U	9.3 UJ	9.4 U
Benzo(b)fluoranthene	1,100	***12000*** D	21 U	21 U	59 J	240 J	21 U	25 U	20 U	21 UJ	21 U
Benzo(k)fluoranthene	1,100	***5200***	13 U	14 U	12 U	93 J	14 U	16 U	13 U	13 UJ	13 U
Benzo(a)pyrene	61 or MDL	***11000*** D	6.8 U	6.8 U	52 J	***220*** J	6.9 U	8 U	6.6 U	6.7 UJ	6.8 U
Indeno(1,2,3-cd)pyrene	3,200	1900	9.5 U	9.6 U	8.2 U	100 J	9.7 U	11 U	9.3 U	9.4 UJ	9.5 U
Dibenz(a,h)anthracene	14 or MDL	***400*** J	12 U	12 U	9.9 U	10 U	12 U	14 U	11 U	11 UJ	12 U
Benzo(g,h,i)perylene	50,000	2300 J	17 U	17 U	42 J	120 J	17 U	20 U	17 U	17 UJ	17 U
Total Confident Conc. SVOC	500,000	***1,645,700***	368	-	1,048	7,484	63	57	84	48	89
Carcinogenic SVOCs in BaP Equivalents		14,572	ND	ND	63.7	280.9	ND	ND	ND	ND	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-13	SB-13	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15	SB-15	SB-15
Sample Interval (Feet bgs)		25 to 27	27 to 29	4 to 5	11 to 13	17 to 19	23 to 25	4 to 5	5 to 6	7 to 9	11 to 13
Sampling Date		10/10/04	10/10/04	09/11/04	10/03/04	10/03/04	10/03/04	08/18/04	08/18/04	08/19/04	08/19/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Blind Duplicate									
Benzaldehyde	NC	39 U	45 U	36 U	37 U	37 U	47 U	37 U	37 U	38 U	37 U
Phenol	30 or MDL	16 U	19 U	16 U	16 U	16 U	20 U	16 U	16 U	16 U	16 U
bis(2-Chloroethyl)ether	NC	19 U	23 U	18 U	18 U	18 U	24 U	19 U	18 U	19 U	19 U
2-Chlorophenol	800	17 U	20 U	16 U	16 U	16 U	21 U	16 U	16 U	17 U	16 U
2-Methylphenol	100 or MDL	25 U	29 U	23 U	24 U	24 U	30 U	24 U	24 U	24 U	24 U
2,2-oxybis(1-Chloropropane)	NC	21 U	25 U	20 U	20 U	20 U	26 U	20 U	20 U	21 U	21 U
Acetophenone	NC	21 U	24 U	19 U	20 U	20 U	25 U	20 U	20 U	20 U	20 U
3+4-Methylphenols	900	18 U	21 U	17 U	17 U	17 U	22 U	17 U	17 U	18 U	17 U
N-Nitroso-di-n-propylamine	NC	17 U	20 U	16 U	17 U	17 U	21 U	17 U	16 U	17 U	17 U
Hexachloroethane	NC	19 U	22 U	18 U	18 U	18 U	23 U	18 U	18 U	18 U	18 U
Nitrobenzene	200 or MDL	20 U	23 U	19 U	19 U	19 U	24 U	19 U	19 U	20 U	19 U
Isophorone	4,400	15 U	17 U	14 U	14 U	14 U	18 U	14 U	14 U	14 U	14 U
2-Nitrophenol	330 or MDL	16 U	19 U	15 U	15 U	15 U	19 U	15 U	15 U	16 U	15 U
2,4-Dimethylphenol	NC	21 U	25 U	20 U	20 U	20 U	26 U	20 U	20 U	21 U	21 U
bis(2-Chloroethoxy)methane	NC	18 U	21 U	17 U	17 U	17 U	22 U	17 U	17 U	18 U	17 U
2,4-Dichlorophenol	400	14 U	16 U	13 U	13 U	13 U	17 U	13 U	13 U	14 U	13 U
Naphthalene	13,000	8.6 U	10 U	520	41 J	8.2 U	10 U	8.2 U	8.1 U	250 J	180 J
4-Chloroaniline	220 or MDL	150 U	170 U	140 U	140 U	140 U	180 U	140 U	140 U	140 U	140 U
Hexachlorobutadiene	NC	14 U	16 U	13 U	13 U	13 U	17 U	13 U	13 U	14 U	13 U
Caprolatam	NC	15 U	17 U	14 U	14 U	14 U	18 U	14 U	14 U	14 U	14 U
4-Chloro-3-methylphenol	240 or MDL	12 U	14 U	11 U	11 U	11 U	14 UJ	11 U	11 U	11 U	11 U
2-Methylnaphthalene	36,400	6.8 U	8 U	220 J	6.5 U	6.5 U	8.3 U	6.5 U	490	160 J	6.5 U
Hexachlorocyclopentadiene	NC	9.9 UJR	12 UJ	9.3 UJ	9.4 UJ	9.4 UJ	12 UJ	9.4 UJ	9.4 UJ	9.7 UJ	9.5 UJ
2,4,6-Trichlorophenol	NC	14 U	17 U	13 U	14 U	14 U	17 U	14 U	14 U	14 U	14 U
2,4,5-Trichlorophenol	100	26 U	31 U	25 U	25 U	25 U	32 U	25 U	25 U	26 U	25 U
1,1-Biphenyl	NC	12 U	14 U	11 U	11 U	11 U	14 U	11 U	11 U	11 U	11 U
2-Chloronaphthalene	NC	8.2 U	9.6 U	7.8 U	7.8 U	7.8 U	10 U	7.9 U	7.8 U	8.1 U	7.9 U
2-Nitroaniline	430 or MDL	14 U	17 U	13 U	14 U	14 U	17 U	14 U	14 U	14 U	14 U
Dimethylphthalate	2,000	9.4 U	11 U	8.9 U	9 U	9 U	11 U	9 U	8.9 U	9.2 U	9.1 U
Acenaphthylene	41,000	12 U	14 U	11 U	11 U	11 U	14 U	11 U	11 U	12 U	11 U
2,6-Dinitrotoluene	1,000	17 U	20 U	16 U	16 U	16 U	20 U	16 U	16 U	16 U	16 U
3-Nitroaniline	500 or MDL	64 U	75 U	60 U	61 U	61 U	78 U	61 U	60 U	62 U	61 U
Acenaphthene	50,000	8.7 U	10 U	320 J	8.3 U	8.3 U	11 U	8.3 U	8.2 U	180 J	94 J
2,4-Dinitrophenol	200 or MDL	17 U	20 U	16 U	17 U	17 U	21 U	17 U	16 U	17 U	17 U
4-Nitrophenol	100 or MDL	39 U	45 U	36 U	37 U	37 U	47 U	37 U	36 U	38 U	37 U
Dibenzofuran	6,200	13 U	15 U	410	12 U	12 U	16 U	12 U	12 U	13 U	100 J
2,4-Dinitrotoluene	1,000	7.9 U	9.2 U	7.4 U	7.5 U	7.5 U	9.6 U	7.5 U	7.5 U	7.7 U	7.6 U
Diethylphthalate	7,100	12 U	15 U	12 U	12 U	12 U	15 U	12 U	12 U	12 U	12 U
4-Chlorophenyl-phenylether	NC	9.8 U	11 U	9.2 U	9.3 U	9.3 U	12 U	9.3 U	9.3 U	9.6 U	9.4 U
Fluorene	50,000	11 U	13 U	500	11 U	11 U	14 U	11 U	11 U	56 J	160 J
4-Nitroaniline	NC	31 U	36 U	29 U	29 U	29 U	38 U	29 U	29 U	30 U	30 U
4,6-Dinitro-2-methylphenol	NC	23 U	27 U	22 U	22 U	22 U	28 U	22 U	22 U	22 U	22 U
N-Nitrosodiphenylamine	NC	10 U	12 U	9.4 U	9.5 U	9.5 U	12 U	9.6 U	9.5 U	9.8 U	9.6 U
4-Bromophenyl-phenylether	NC	10 U	12 U	9.8 U	9.9 U	9.9 U	13 U	9.9 U	9.8 U	10 U	10 U
Hexachlorobenzene	410	7.4 U	8.7 U	7 U	7 U	7 U	9 U	7.1 U	7 U	7.2 U	7.1 U
Atrazine	NC	12 U	14 U	11 U	11 U	11 U	15 U	11 U	11 U	12 U	12 U
Pentachlorophenol	1000 or MDL	12 U	14 U	12 U	12 U	12 U	15 U	12 U	12 U	12 U	12 U
Phenanthrene	50,000	8.8 U	10 U	1400	8.4 U	8.4 U	11 U	8.4 U	98 J	130 J	320 J
Anthracene	50,000	9.4 U	11 U	340 J	9 U	9 U	11 U	9 U	8.9 U	64 J	9.1 U
Carbazole	NC	8.7 U	10 U	120 J	8.3 U	8.3 U	11 U	8.3 U	8.2 U	8.5 U	200 J

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-13	SB-13	SB-14	SB-14	SB-14	SB-14	SB-15	SB-15	SB-15	SB-15
Sample Interval (Feet bgs)		25 to 27	27 to 29	4 to 5	11 to 13	17 to 19	23 to 25	4 to 5	5 to 6	7 to 9	11 to 13
Sampling Date		10/10/04	10/10/04	09/11/04	10/03/04	10/03/04	10/03/04	08/18/04	08/18/04	08/19/04	08/19/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Blind Duplicate									
Di-n-butylphthalate	8,100	5.2 U	6.1 U	4.9 U	5 U	5 U	6.4 U	5 U	5 U	5.1 U	5 U
Fluoranthene	50,000	5.5 U	6.4 U	1500	5.2 U	5.2 U	6.7 U	5.2 U	82 J	260 J	5.3 U
Pyrene	50,000	7 U	8.2 U	1600	6.7 U	6.7 U	8.6 U	6.7 U	100 J	350 J	6.8 U
Butylbenzylphthalate	50,000	13 U	16 U	12 U	13 U	13 U	16 U	13 U	13 U	13 U	13 U
3,3-Dichlorobenzidine	NA	63 U	74 U	60 U	60 U	60 U	77 U	60 U	60 U	62 U	61 U
Benzo(a)anthracene	224 or MDL	6 U	7 U	***1000***	5.7 U	5.7 U	7.3 U	5.7 U	50 J	210 J	5.7 U
Chrysene	400	13 U	15 U	***1100***	12 U	12 U	15 U	12 U	53 J	200 J	12 U
bis(2-Ethylhexyl)phthalate	50,000	45 J	68 J	8.5 U	120 J	8.6 U	11 U	8.6 U	57 J	180 J	100 J
Di-n-octyl phthalate	50,000	9.4 U	11 U	8.9 U	9 U	9 U	11 U	9 U	8.9 U	9.2 U	9.1 U
Benzo(b)fluoranthene	1,100	21 U	25 U	***1400***	20 U	20 U	26 U	44 J	20 U	220 J	20 U
Benzo(k)fluoranthene	1,100	13 U	16 U	700 J	13 U	13 U	16 U	13 U	51 J	120 J	13 U
Benzo(a)pyrene	61 or MDL	6.8 U	8 U	***1300***	6.5 U	6.5 U	8.3 U	42 J	50 J	***190*** J	6.5 U
Indeno(1,2,3-cd)pyrene	3,200	9.5 U	11 U	690	9.1 U	9.1 U	12 U	9.1 U	9 U	63 J	9.2 U
Dibenz(a,h)anthracene	14 or MDL	12 U	14 U	***120*** J	11 U	11 U	14 U	11 U	11 U	11 U	11 U
Benzo(g,h,i)perylene	50,000	17 U	20 U	750	16 U	16 U	21 U	16 U	16 U	73 J	17 U
Total Confident Conc. SVOC	500,000	45	68	13,990	161	-	-	86	1,031	2,706	1,154
Carcinogenic SVOCs in BaP Equivalents		ND	ND	1,747	ND	ND	ND	46.4	56	242.5	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-15	SB-15	SB-18	SB-18	SB-18	SB-53	SB-53	SB-53	SB-54	SB-54
Sample Interval (Feet bgs)		17 to 19	23 to 25	7.3 to 7.9	28.5 to 29	42.5 to 43	6 to 7	8.3 to 9.3	14 to 15	3 to 4	5 to 6
Sampling Date		08/19/04	08/19/04	07/21/04	07/21/04	07/21/04	03/24/05	03/24/05	03/24/05	03/23/05	03/24/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	3800 U	51 U	39 U	380 U	49 U	170 U	39 U	36 U	39 U	350 U
Phenol	30 or MDL	1600 U	22 U	16 U	160 U	21 U	72 U	17 U	15 U	17 U	150 U
bis(2-Chloroethyl)ether	NC	1900 U	25 U	19 U	190 U	25 U	86 U	20 U	18 U	20 U	170 U
2-Chlorophenol	800	1700 U	22 U	17 U	170 U	22 U	75 U	17 U	16 U	17 U	150 U
2-Methylphenol	100 or MDL	2400 U	33 U	25 U	250 U	32 U	110 U	25 U	23 U	25 U	220 U
2,2-oxybis(1-Chloropropane)	NC	2100 U	28 U	21 U	210 U	27 U	94 U	21 U	20 U	22 U	190 U
Acetophenone	NC	2000 U	27 U	21 U	200 U	26 U	91 U	21 U	19 U	21 U	190 U
3+4-Methylphenols	900	1800 U	24 U	18 U	180 U	23 U	80 U	18 U	17 U	18 U	160 U
N-Nitroso-di-n-propylamine	NC	1700 U	23 U	17 U	170 U	22 U	77 U	18 U	16 U	18 U	160 U
Hexachloroethane	NC	1900 U	25 U	19 U	190 U	24 U	83 U	19 U	18 U	19 U	170 U
Nitrobenzene	200 or MDL	2000 U	26 U	20 U	200 U	25 U	88 U	20 U	19 U	20 U	180 U
Isophorone	4,400	1400 U	19 U	15 U	150 U	19 U	65 U	15 U	14 U	15 U	130 U
2-Nitrophenol	330 or MDL	1600 U	21 U	16 U	160 U	20 U	70 U	16 U	15 U	16 U	140 U
2,4-Dimethylphenol	NC	44000	340 J	21 U	210 U	27 U	94 U	21 U	20 U	22 U	190 U
bis(2-Chloroethoxy)methane	NC	1800 U	24 U	18 U	180 U	23 U	79 U	18 U	17 U	18 U	160 U
2,4-Dichlorophenol	400	1400 U	18 U	14 U	140 U	18 U	61 U	14 U	13 U	14 U	120 U
Naphthalene	13,000	***4700000*** J	***32000*** D	8.6 U	3300 J	11 U	12000	8.6 U	8 U	90 J	***14000***
4-Chloroaniline	220 or MDL	14000 U	190 U	150 U	1400 U	190 U	640 U	150 U	140 U	150 U	1300 U
Hexachlorobutadiene	NC	1400 U	18 U	14 U	140 U	18 U	61 U	14 U	13 U	14 U	120 U
Caprolatam	NC	1400 U	19 U	15 U	140 U	18 U	64 U	15 U	14 U	15 U	130 U
4-Chloro-3-methylphenol	240 or MDL	1100 U	15 U	12 U	120 U	15 U	51 U	12 U	11 U	12 U	110 U
2-Methylnaphthalene	36,400	***1700000*** J	13000 D	6.8 U	1600 J	8.6 U	6400	6.8 U	6.3 U	49 J	11000
Hexachlorocyclopentadiene	NC	970 UJ	13 UJ	9.9 UJ	98 UJ	13 UJ	44 UJ	10 UJ	9.2 UJ	10 UJ	89 UJ
2,4,6-Trichlorophenol	NC	1400 U	19 U	14 U	140 U	18 U	63 U	14 U	13 U	14 U	130 U
2,4,5-Trichlorophenol	100	2600 U	34 U	26 U	260 U	33 U	120 U	26 U	24 U	26 U	230 U
1,1-Biphenyl	NC	1100 U	15 U	12 U	420 J	15 U	1200 J	12 U	11 U	12 U	1200 J
2-Chloronaphthalene	NC	810 U	11 U	8.2 U	82 U	10 U	36 U	8.3 U	7.7 U	8.3 U	74 U
2-Nitroaniline	430 or MDL	1400 U	19 U	14 U	140 U	18 U	63 U	14 U	13 U	14 U	130 U
Dimethylphthalate	2,000	930 U	12 U	9.4 U	94 U	12 U	41 U	9.5 U	8.8 U	9.5 U	85 U
Acenaphthylene	41,000	***530000*** J	3300	12 U	1400 J	15 U	240 J	12 U	11 U	62 J	110 U
2,6-Dinitrotoluene	1,000	1700 U	22 U	17 U	170 U	21 U	74 U	17 U	16 U	17 U	150 U
3-Nitroaniline	500 or MDL	6300 U	83 U	64 U	630 U	81 U	280 U	64 U	59 U	64 U	570 U
Acenaphthene	50,000	***240000*** J	2900	8.7 U	1800 J	11 U	5500	8.8 U	8.1 U	52 J	9200
2,4-Dinitrophenol	200 or MDL	1700 U	23 U	17 U	170 U	22 U	77 U	18 U	16 U	18 UJ	160 U
4-Nitrophenol	100 or MDL	***33000*** J	50 U	39 U	***1300*** J	49 U	170 U	39 U	36 U	39 U	350 U
Dibenzofuran	6,200	***420000*** J	3300	13 U	1400 J	17 U	6200	13 U	12 U	52 J	***6400***
2,4-Dinitrotoluene	1,000	770 U	10 U	7.9 U	78 U	10 U	35 U	7.9 U	7.3 U	7.9 U	71 U
Diethylphthalate	7,100	1200 U	16 U	12 U	120 U	16 U	55 U	12 U	12 U	13 U	110 U
4-Chlorophenyl-phenylether	NC	960 U	13 U	9.8 U	97 U	12 U	43 U	9.8 U	9.1 U	9.9 U	88 U
Fluorene	50,000	***830000*** J	6900 D	11 U	2900 J	14 U	5800	11 U	10 U	84 J	9100
4-Nitroaniline	NC	3000 U	40 U	31 U	310 U	39 U	140 U	31 U	29 U	31 U	280 U
4,6-Dinitro-2-methylphenol	NC	2200 U	30 U	23 U	230 U	29 U	100 U	23 U	21 U	23 UJ	210 U
N-Nitrosodiphenylamine	NC	980 U	13 U	10 U	99 U	13 U	44 U	10 U	9.3 U	10 U	90 U
4-Bromophenyl-phenylether	NC	1000 U	14 U	10 U	100 U	13 U	46 U	10 U	9.7 U	10 U	93 U
Hexachlorobenzene	410	730 U	9.7 U	7.4 U	73 U	9.4 U	33 U	7.4 U	6.9 U	7.5 U	66 U
Atrazine	NC	1200 U	16 U	12 U	120 U	15 U	53 U	12 U	11 U	12 U	110 U
Pentachlorophenol	1000 or MDL	1200 U	16 U	12 U	120 U	16 U	54 U	12 U	11 U	12 U	110 U
Phenanthrene	50,000	***1300000*** DJ	11000 DJ	310 J	7800	62 J	42000 D	52 J	8.2 U	1200	***61000*** D
Anthracene	50,000	***610000*** J	5000 D	96 J	2500 J	12 U	9600	9.5 U	8.8 U	210 J	17000
Carbazole	NC	190000 J	2100	8.7 U	590 J	11 U	4500	8.8 U	8.1 U	67 J	7500

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-15	SB-15	SB-18	SB-18	SB-18	SB-53	SB-53	SB-53	SB-54	SB-54
Sample Interval (Feet bgs)		17 to 19	23 to 25	7.3 to 7.9	28.5 to 29	42.5 to 43	6 to 7	8.3 to 9.3	14 to 15	3 to 4	5 to 6
Sampling Date		08/19/04	08/19/04	07/21/04	07/21/04	07/21/04	03/24/05	03/24/05	03/24/05	03/23/05	03/24/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Di-n-butylphthalate	8,100	520 U	6.9 U	5.3 U	52 U	6.7 U	23 U	5.3 U	4.9 U	5.3 U	47 U
Fluoranthene	50,000	***750000*** J	6400 D	390 J	5100	7 U	33000 D	5.5 U	5.1 U	1900 J	48000 D
Pyrene	50,000	***830000*** J	7600 D	430	5600	8.9 U	26000 D	7.1 U	6.6 U	1600	40000 D
Butylbenzylphthalate	50,000	1300 U	17 U	13 U	130 U	17 U	58 U	13 U	12 U	13 U	120 U
3,3-Dichlorobenzidine	NA	6200 U	83 U	63 U	630 U	80 U	280 U	64 U	59 U	64 U	570 U
Benzo(a)anthracene	224 or MDL	***410000*** J	***3600***	210 J	***3100*** J	7.6 U	***12000***	6 U	5.6 U	***1400***	***19000***
Chrysene	400	***360000*** J	***3000***	190 J	***2400*** J	16 U	***10000***	13 U	12 U	***1100***	***17000***
bis(2-Ethylhexyl)phthalate	50,000	890 U	62 J	72 J	90 U	120 J	40 U	78 J	51 J	9.2 U	82 U
Di-n-octyl phthalate	50,000	930 U	12 U	9.4 U	94 U	12 U	41 U	9.5 U	8.8 U	9.5 U	85 U
Benzo(b)fluoranthene	1,100	***290000*** J	***2300***	190 J	***2200*** J	27 U	***12000*** DJ	21 U	20 U	***1500*** J	***26000*** J
Benzo(k)fluoranthene	1,100	***98000*** J	1100 J	110 J	***1200*** J	17 U	***4500***	14 U	13 U	650	***7500***
Benzo(a)pyrene	61 or MDL	***270000*** J	***2300***	***110*** J	***2000*** J	8.6 U	***10000***	6.8 U	6.3 U	***1400*** J	***18000***
Indeno(1,2,3-cd)pyrene	3,200	***60000*** J	550	89 J	560 J	12 U	2300 J	9.6 U	8.9 U	470 J	***3500*** J
Dibenz(a,h)anthracene	14 or MDL	***17000*** J	***160*** J	12 U	110 U	15 U	***560*** J	12 U	11 U	***140*** J	***820*** J
Benzo(g,h,i)perylene	50,000	***67000*** J	620	81 J	630 J	22 U	3400	17 U	16 U	630	5100
Total Confident Conc. SVOC	500,000	***13,749,000***	75,532	2,278	47,800	182	207,200	130	51	12,656	321,320
Carcinogenic SVOCs in BaP Equivalents		367,580	3,146	173.9	2,622	ND	13,335	ND	ND	1,894.5	23,915

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-54	SB-54	SB-55	SB-56	SB-55	SB-55
Sample Interval (Feet bgs)		9 to 10	19 to 21	2 to 3	2 to 3	5 to 6	8 to 9
Sampling Date		03/24/05	03/24/05	03/23/05	03/23/05	03/25/05	03/25/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO						
Benzaldehyde	NC	37 U	37 U	150 U	390 U	34 U	36 U
Phenol	30 or MDL	16 U	16 U	64 U	170 U	15 U	15 U
bis(2-Chloroethyl)ether	NC	18 U	18 U	76 U	200 U	17 U	18 U
2-Chlorophenol	800	16 U	16 U	67 U	170 U	15 U	16 U
2-Methylphenol	100 or MDL	24 U	24 U	98 U	250 U	22 U	23 U
2,2-oxybis(1-Chloropropane)	NC	20 U	20 U	84 U	220 U	19 U	20 U
Acetophenone	NC	20 U	20 U	81 U	210 U	18 U	19 U
3+4-Methylphenols	900	17 U	17 U	71 U	180 U	16 U	17 U
N-Nitroso-di-n-propylamine	NC	17 U	17 U	68 U	180 U	15 U	16 U
Hexachloroethane	NC	18 U	18 U	74 U	190 U	17 U	18 U
Nitrobenzene	200 or MDL	19 U	19 U	78 U	200 U	18 U	19 U
Isophorone	4,400	14 U	14 U	57 U	150 U	13 U	14 U
2-Nitrophenol	330 or MDL	15 U	15 U	62 U	160 U	14 U	15 U
2,4-Dimethylphenol	NC	20 U	20 U	84 U	220 U	19 U	20 U
bis(2-Chloroethoxy)methane	NC	17 U	17 U	70 U	180 U	16 U	17 U
2,4-Dichlorophenol	400	13 U	13 U	54 U	140 U	12 U	13 U
Naphthalene	13,000	8.1 U	120 J	4300	***23000***	470	8 U
4-Chloroaniline	220 or MDL	140 U	140 U	570 U	1500 U	130 U	140 U
Hexachlorobutadiene	NC	13 U	13 U	54 U	140 U	12 U	13 U
Caprolatam	NC	14 U	14 U	57 U	150 U	13 U	14 U
4-Chloro-3-methylphenol	240 or MDL	11 U	11 U	46 U	120 U	10 U	11 U
2-Methylnaphthalene	36,400	6.4 U	72 J	3700	19000	300 J	6.3 U
Hexachlorocyclopentadiene	NC	9.4 UJ	9.4 UJ	39 UJ	100 UJ	8.8 UJ	9.2 UJ
2,4,6-Trichlorophenol	NC	14 U	14 U	56 U	150 U	13 U	13 U
2,4,5-Trichlorophenol	100	25 U	25 U	100 U	270 U	23 U	24 U
1,1-Biphenyl	NC	11 U	11 U	520 J	2600 J	48 J	11 U
2-Chloronaphthalene	NC	7.8 U	7.8 U	32 U	84 U	7.3 U	7.7 U
2-Nitroaniline	430 or MDL	14 U	14 U	56 U	150 U	13 U	13 U
Dimethylphthalate	2,000	8.9 U	8.9 U	37 U	96 U	8.4 U	8.8 U
Acenaphthylene	41,000	11 U	11 U	250 J	120 U	10 U	11 U
2,6-Dinitrotoluene	1,000	16 U	16 U	66 U	170 U	15 U	16 U
3-Nitroaniline	500 or MDL	60 U	60 U	250 U	650 U	57 U	59 U
Acenaphthene	50,000	8.3 U	53 J	4100	18000	260 J	8.1 U
2,4-Dinitrophenol	200 or MDL	17 U	17 U	68 U	180 U	15 U	16 U
4-Nitrophenol	100 or MDL	37 U	37 U	150 U	390 U	34 U	36 U
Dibenzofuran	6,200	12 U	38 J	2700	***12000***	190 J	12 U
2,4-Dinitrotoluene	1,000	7.5 U	7.5 U	31 U	80 U	80 U	80 U
Diethylphthalate	7,100	12 U	12 U	49 U	130 U	11 U	12 U
4-Chlorophenyl-phenylether	NC	9.3 U	9.3 U	38 U	100 U	8.7 U	9.1 U
Fluorene	50,000	11 U	50 J	3600	17000	260 J	10 U
4-Nitroaniline	NC	29 U	29 U	120 U	310 U	27 U	29 U
4,6-Dinitro-2-methylphenol	NC	22 U	22 U	90 U	230 U	20 U	21 U
N-Nitrosodiphenylamine	NC	9.5 U	9.5 U	39 U	100 U	8.9 U	9.3 U
4-Bromophenyl-phenylether	NC	9.8 U	9.8 U	41 U	110 U	9.2 U	9.7 U
Hexachlorobenzene	410	7 U	7 U	29 U	75 U	6.6 U	6.9 U
Atrazine	NC	11 U	11 U	47 U	120 U	11 U	11 U
Pentachlorophenol	1000 or MDL	12 U	12 U	48 U	120 U	11 U	11 U
Phenanthrene	50,000	8.4 U	340 J	32000 D	***110000*** D	2000	63 J
Anthracene	50,000	8.9 U	83 J	9600	30000	390	8.8 U
Carbazole	NC	8.3 U	50 J	3800	11000	180 J	8.1 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-54	SB-54	SB-55	SB-56	SB-55	SB-55
Sample Interval (Feet bgs)		9 to 10	19 to 21	2 to 3	2 to 3	5 to 6	8 to 9
Sampling Date		03/24/05	03/24/05	03/23/05	03/23/05	03/25/05	03/25/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO						
Di-n-butylphthalate	8,100	5 U	5 U	21 U	53 U	4.7 U	4.9 U
Fluoranthene	50,000	5.2 U	260 J	33000 D	***86000*** D	1500	52 J
Pyrene	50,000	6.7 U	220 J	25000 D	***72000*** D	1300	52 J
Butylbenzylphthalate	50,000	13 U	13 U	52 U	130 U	12 U	12 U
3,3-Dichlorobenzidine	NA	60 U	60 U	250 U	640 U	56 U	59 U
Benzo(a)anthracene	224 or MDL	5.7 U	120 J	***13000*** D	***30000***	***610***	5.6 U
Chrysene	400	12 U	87 J	***12000***	***26000***	***440***	12 U
bis(2-Ethylhexyl)phthalate	50,000	190 J	53 J	210 J	92 U	160 J	280 J
Di-n-octyl phthalate	50,000	8.9 U	8.9 U	37 U	96 U	8.4 U	8.8 U
Benzo(b)fluoranthene	1,100	20 U	110 J	***14000*** DL	***29000*** DJ	550 J	20 U
Benzo(k)fluoranthene	1,100	13 U	41 J	***4900***	***12000***	200 J	13 U
Benzo(a)pyrene	61 or MDL	6.4 U	***98*** J	***11000*** D	***30000***	***460***	6.3 U
Indeno(1,2,3-cd)pyrene	3,200	9 U	45 J	3000 J	***5600*** J	250 J	8.9 U
Dibenz(a,h)anthracene	14 or MDL	11 U	11 U	***510*** J	***1100*** J	***46*** J	11 U
Benzo(g,h,i)perylene	50,000	16 U	60 J	3800	7800	330 J	16 U
Total Confident Conc. SVOC	500,000	190	1,900	184,780	***542,100***	9,944	447
Carcinogenic SVOCs in BaP Equivalents		ND	126.8	14,679	37,940	653.4	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		SB-55							
Sample Interval (Feet bgs)		19 to 20							
Sampling Date		03/25/05							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	39 U	58	0	0%	0	0%	< 33	< 3,800
Phenol	30 or MDL	17 U	58	0	0%	0	0%	< 14	< 1,600
bis(2-Chloroethyl)ether	NC	20 U	58	0	0%	0	0%	< 17	< 1,900
2-Chlorophenol	800	17 U	58	0	0%	0	0%	< 15	< 1,700
2-Methylphenol	100 or MDL	25 U	58	1	2%	1	2%	< 21	< 2,400
2,2-oxybis(1-Chloropropane)	NC	22 U	58	0	0%	0	0%	< 18	< 2,100
Acetophenone	NC	21 U	58	0	0%	0	0%	< 18	< 2,000
3+4-Methylphenols	900	18 U	58	2	3%	1	2%	< 16	< 1,800
N-Nitroso-di-n-propylamine	NC	18 U	58	0	0%	0	0%	< 15	< 1,700
Hexachloroethane	NC	19 U	58	0	0%	0	0%	< 16	< 1,900
Nitrobenzene	200 or MDL	20 U	58	0	0%	0	0%	< 17	< 2,000
Isophorone	4,400	15 U	58	0	0%	0	0%	< 13	< 1,400
2-Nitrophenol	330 or MDL	16 U	58	0	0%	0	0%	< 14	< 1,600
2,4-Dimethylphenol	NC	22 U	58	2	3%	0	0%	< 18	44,000
bis(2-Chloroethoxy)methane	NC	18 U	58	0	0%	0	0%	< 15	< 1,800
2,4-Dichlorophenol	400	14 U	58	0	0%	0	0%	< 12	< 1,400
Naphthalene	13,000	8.7 U	58	26	45%	6	10%	< 7.4	4,700,000
4-Chloroaniline	220 or MDL	150 U	58	0	0%	0	0%	< 130	< 14,000
Hexachlorobutadiene	NC	14 U	58	0	0%	0	0%	< 12	< 1,400
Caprolatam	NC	15 U	58	0	0%	0	0%	< 12	< 1,400
4-Chloro-3-methylphenol	240 or MDL	12 U	58	0	0%	0	0%	< 10	< 1,100
2-Methylnaphthalene	36,400	6.9 U	58	24	41%	2	3%	< 5.8	1,700,000
Hexachlorocyclopentadiene	NC	10 UJ	58	0	0%	0	0%	< 8.5	< 970
2,4,6-Trichlorophenol	NC	14 U	58	0	0%	0	0%	< 12	< 1,400
2,4,5-Trichlorophenol	100	26 U	58	0	0%	0	0%	< 22	< 2,600
1,1-Biphenyl	NC	12 U	58	10	17%	0	0%	< 10	7,700
2-Chloronaphthalene	NC	8.3 U	58	0	0%	0	0%	< 7.1	< 810
2-Nitroaniline	430 or MDL	14 U	58	0	0%	0	0%	< 12	< 1,400
Dimethylphthalate	2,000	9.5 U	58	0	0%	0	0%	< 8.1	< 930
Acenaphthylene	41,000	12 U	58	11	19%	1	2%	< 10	530,000
2,6-Dinitrotoluene	1,000	17 U	58	0	0%	0	0%	< 14	< 1,700
3-Nitroaniline	500 or MDL	64 U	58	0	0%	0	0%	< 55	< 6,300
Acenaphthene	50,000	8.8 U	58	23	40%	1	2%	< 7.5	240,000
2,4-Dinitrophenol	200 or MDL	18 U	58	0	0%	0	0%	< 15	< 1,700
4-Nitrophenol	100 or MDL	39 U	58	2	3%	2	3%	< 33	33,000
Dibenzofuran	6,200	13 U	58	20	34%	4	7%	< 11	420,000
2,4-Dinitrotoluene	1,000	400 UD	58	0	0%	0	0%	< 6.8	< 770
Diethylphthalate	7,100	13 U	58	0	0%	0	0%	< 11	< 1,200
4-Chlorophenyl-phenylether	NC	9.9 U	58	0	0%	0	0%	< 8.4	< 960
Fluorene	50,000	11 U	58	23	40%	1	2%	< 9.6	830,000
4-Nitroaniline	NC	31 U	58	0	0%	0	0%	< 27	< 3,000
4,6-Dinitro-2-methylphenol	NC	23 U	58	0	0%	0	0%	< 20	< 2,200
N-Nitrosodiphenylamine	NC	10 U	58	0	0%	0	0%	< 8.6	< 980
4-Bromophenyl-phenylether	NC	10 U	58	0	0%	0	0%	< 8.9	< 1,000
Hexachlorobenzene	410	7.5 U	58	0	0%	0	0%	< 6.3	< 730
Atrazine	NC	12 U	58	0	0%	0	0%	< 10	< 1,200
Pentachlorophenol	1000 or MDL	12 U	58	0	0%	0	0%	< 11	< 1,200
Phenanthrene	50,000	8.9 U	58	34	59%	4	7%	< 8.2	1,300,000
Anthracene	50,000	9.5 U	58	25	43%	1	2%	< 8.4	610,000
Carbazole	NC	8.8 U	58	19	33%	0	0%	< 7.5	190,000

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-13

Sample Location		**SB-55**							
Sample Interval (Feet bgs)		19 to 20							
Sampling Date		03/25/05							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Di-n-butylphthalate	8,100	5.3 U	58	0	0%	0	0%	< 4.5	< 520
Fluoranthene	50,000	5.5 U	58	29	50%	2	3%	< 4.9	750,000
Pyrene	50,000	7.1 U	58	29	50%	2	3%	< 6.3	830,000
Butylbenzylphthalate	50,000	13 U	58	2	3%	0	0%	< 12	1,300
3,3-Dichlorobenzidine	NA	64 U	58	0	0%	0	0%	< 54	< 6,200
Benzo(a)anthracene	224 or MDL	6 U	58	25	43%	17	29%	< 5.3	410,000
Chrysene	400	13 U	58	25	43%	15	26%	< 11	360,000
bis(2-Ethylhexyl)phthalate	50,000	180 J	58	34	59%	0	0%	< 8.1	890
Di-n-octyl phthalate	50,000	9.5 U	58	1	2%	0	0%	< 8.1	< 930
Benzo(b)fluoranthene	1,100	21 U	58	25	43%	14	24%	< 19	290,000
Benzo(k)fluoranthene	1,100	14 U	58	22	38%	9	16%	< 12	98,000
Benzo(a)pyrene	61 or MDL	6.9 U	58	25	43%	21	36%	< 6.1	270,000
Indeno(1,2,3-cd)pyrene	3,200	9.6 U	58	21	36%	3	5%	< 8.2	60,000
Dibenz(a,h)anthracene	14 or MDL	12 U	58	13	22%	13	22%	< 9.9	17,000
Benzo(g,h,i)perylene	50,000	17 U	58	22	38%	1	2%	< 15	67,000
Total Confident Conc. SVOC	500,000	180							
Carcinogenic SVOCs in BaP Equivalents		ND							

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		TP2	SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-8	SB-8	SB-9	SB-9
Sample Interval (Feet bgs)		10 to 11	6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	11 to 11.5	14.5 to 15	4 to 5	8 to 10
Sampling Date		09/12/04	07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	08/11/04	08/11/04	09/12/04	09/18/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1	1	1	1	1	1	1	1.0	1.0	1.0	1
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO											
Antimony	B	0.673 U	0.701 U	0.665 U	0.672 U	0.71 U	0.68 U	0.609 U	0.619 U	0.684 U	0.619 U	0.64 U
Arsenic	12	1.88	3.19	1.11 J	0.283 U	0.299 U	2.61	1.7	0.309 J	0.434 J	1.94 J	1.79
Beryllium	600	0.285 J	0.73	0.524 J	0.37 J	0.634 J	0.621	0.475 J	0.381 J	0.326 J	0.322 J	0.391 J
Cadmium	1	0.055 U	0.482 J	0.054 U	0.055 U	0.058 U	0.379 J	0.244 J	0.662	0.893	0.051 U	0.052 U
Chromium	40	10.9	16.9	13.5	5.32	10.4	15.8	16.5	14.7	26.3	12.6	14.7
Copper	50	11.9	18.2	12.1	6.24	10.1	17	16.2	12.8	8	16	18.1
Lead	500	13.3	16.4	5.86	3.05	9.2	11.7	7.89	11.5	7.28	21.9	14.5 J
Mercury	0.1	0.24 U	0.04 J	0.02	0.01 U	0.01 U	0.03 J	0.02 J	0.02 J	0.01 J	0.22 U	***0.11*** J
Nickel	25	11.6	16.7	9.81	10.7	13.7	15.5	14.3	12.5	11.7	12.3	16.5
Selenium	3.9	0.54 J	1.1 J	0.37 U	0.373 U	0.395 U	0.656 J	0.408 J	0.344 U	1.05 J	0.606 J	0.525 J
Silver	B	0.126 U	0.131 U	0.124 U	0.125 U	0.132 U	0.127 U	0.113 U	0.116 U	0.183 J	0.116 U	0.119 U
Thallium	B	0.395 U	0.544 J	0.39 U	0.394 U	0.416 U	0.399 J	0.357 J	0.363 U	0.401 U	0.363 U	0.375 U
Zinc	50	29.1	46.6	17.7 J	9.31 J	24 J	41.5	21.7	21.9	31.1	32.1	39.1

Sample Location		TP2	SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-8	SB-8	SB-9	SB-9
Sample Interval (Feet bgs)		10 to 11	6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	11 to 11.5	14.5 to 15	4 to 5	8 to 10
Sampling Date		09/12/04	07/09/04	8/9/04	8/9/04	8/9/04	07/09/04	07/09/04	8/11/04	8/11/04	09/12/04	09/18/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO											
Cyanide	NC	0.6 U	0.628 U	0.6 U	0.6 U	0.63 U	0.603 U	0.545 U	1.06 J	0.61 UJ	0.55 U	0.57 U
Amenable Cyanide	NC	0.6 U	0.63 U	0.6 U	0.6 U	0.63 U	0.6 U	0.55 U	0.56 UJ	0.61 UJ	0.55 U	0.57 U

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		SB-9	SB-9	SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)		20 to 22	26 to 28	32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1	1	1	1.0	1	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO											
Antimony	B	0.694 U	0.657 U	0.688 U	0.632 U	0.623 U	0.649 U	0.661 U	0.691 U	0.625 UJ	1.02 J	1.79 J
Arsenic	12	4.91	1.7	1.53	1.7 J	2.42	4.02	2.47	2.01	3.15 J	1.56	3.85
Beryllium	600	0.289 J	0.475 J	0.251 J	0.281 J	0.255 J	0.25 J	0.21 J	0.457 J	0.374 J	0.302 J	0.32 J
Cadmium	1	0.057 U	0.054 U	0.056 U	0.052 U	0.051 U	0.053 U	0.054 U	0.056 U	0.051 U	0.055 U	0.057 U
Chromium	40	14.9	15.7	16.1	12.4	11.3	10.4	11.6	20.6	14.8	13	12
Copper	50	12.4	16.1	9.37	19.3	26.5	26.5	6.65	18.3	20.3 J	15.2	20.2
Lead	500	***677*** J	88.6 J	4.31 J	53.6	55.3 J	40.4 J	21.6 J	7.51 J	110 J	15.8 J	***1740*** J
Mercury	0.1	0.05 J	0.01 J	0.01 UJ	0.22 U	0.09 J	0.07 J	0.01 UJ	0.01 J	***0.48*** J	0.03 J	0.02 J
Nickel	25	14	16.5	7.86	13.5	11.6	11.5	5.82	***26.8***	15.3	13.3	12.2
Selenium	3.9	0.565 J	0.527 J	0.383 U	0.838 J	0.347 U	0.653 J	0.368 U	0.384 U	0.878 J	0.387 J	0.389 U
Silver	B	0.129 U	0.123 U	0.128 U	0.118 U	0.116 U	0.121 U	0.123 U	0.129 U	0.117 U	1.46	0.131 U
Thallium	B	0.407 U	0.385 U	0.403 U	0.37 U	0.365 U	0.381 U	0.388 U	0.405 U	0.366 U	0.395 U	0.41 U
Zinc	50	***66.9***	30.9	11.6	41.5	***50.5***	50	11.3	33.9	***59.5***	30.2	***69.4***

Sample Location		SB-9	SB-9	SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)		20 to 22	26 to 28	32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29
Sampling Date		09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO											
Cyanide	NC	31	0.58 U	0.62 U	0.56 U	0.55 U	0.58 U	2.08	0.61 U	0.55 U	0.6 U	45 R
Amenable Cyanide	NC	10.5	0.58 U	0.62 U	0.56 U	0.55 U	0.58 U	0.59 U	0.61 U	0.55 U	0.6 U	7.9 R

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		SB-11	SB-11	SB-12	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13	SB-13	SB-13	SB-14
Sample Interval (Feet bgs)		35 to 37	37 to 39	5 to 7	7 to 9	15 to 17	25 to 27	49 to 51	6 to 6.5	25 to 27	25 to 27	27 to 29	4 to 5
Sampling Date		09/18/04	09/18/04	09/11/04	09/11/04	09/11/04	09/12/04	09/12/04	07/12/04	10/10/04	10/10/04	10/10/04	09/11/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1	1	1	1	1	1.0	1	1	1	1	1
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										Blind Duplicate		
Antimony	B	0.672 U	0.664 U	0.581 U	0.584 U	0.692 U	0.783 U	0.658 U	0.668 U	0.654 U	0.675 U	0.794 U	0.643 U
Arsenic	12	2.26	0.295 J	1.83 J	1.55 J	2.63 J	7.78 J	1.03 J	2.85	2.04	1.87	11.4	3.72 J
Beryllium	600	0.43 J	0.214 J	0.185 J	0.149 J	0.341 J	0.496 J	0.171 J	0.505 J	0.477 J	0.394 J	0.606 J	0.309 J
Cadmium	1	0.055 U	0.054 U	0.047 U	0.048 U	0.057 U	0.064 U	0.054 U	***1.01***	0.053 U	0.055 U	0.065 U	0.053 U
Chromium	40	12.9	7.26	10.7	12	16.2	20.4	14.7	13.6	16.4	15.4	22.6	10.5
Copper	50	13.7	5.42	6.29	7.27	17.9	14.6	16.1	22.5	21.8	22.4	15.3	23.4
Lead	500	13.8 J	5.1 J	54.3	68.6	13.6	18.1	2.63	12.9	5.65	13.9	9.7	184
Mercury	0.1	0.01 UJ	0.01 J	0.2 U	0.2 U	0.24 U	0.28 U	0.23 U	0.02	0.019 R	0.023 R	0.008 R	***0.23*** J
Nickel	25	12.1	8.47	5.75	4.31	13.6	18.6	11.4	14.9	14.8	15.2	21.7	13.8
Selenium	3.9	1.25 J	0.369 U	0.675 J	0.415 J	0.713 J	1.72	0.366 U	1.01 J	0.364 U	0.375 U	1.22 J	0.896 J
Silver	B	0.125 U	0.124 U	0.108 U	0.109 U	0.654 J	0.146 U	0.123 U	0.48 J	0.122 U	0.126 U	0.281 J	0.12 U
Thallium	B	0.394 U	0.389 U	0.341 U	0.342 U	0.406 U	0.459 U	0.386 U	0.391 U	0.383 U	0.396 U	0.465 U	0.377 U
Zinc	50	23.4	10.1	34.2	40	28.5	***51.8***	14.9	43.4	25	29.1	***57.8***	35.5

Sample Location		SB-11	SB-11	SB-12	SB-12	SB-12	SB-12	SB-12	SB-13	SB-13	SB-13	SB-13	SB-14
Sample Interval (Feet bgs)		35 to 37	37 to 39	5 to 7	7 to 9	15 to 17	25 to 27	49 to 51	6 to 6.5	25 to 27	25 to 27	27 to 29	4 to 5
Sampling Date		09/18/04	09/18/04	09/11/04	09/11/04	09/11/04	09/12/04	09/12/04	07/12/04	10/10/04	10/10/04	10/10/04	09/11/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										Blind Duplicate		
Cyanide	NC	0.6 U	0.602 U	1.24	0.52 U	0.62 U	0.71 U	0.58 U	0.59 U	0.59 U	0.61 U	0.71 U	0.57 U
Amenable Cyanide	NC	0.6 U	0.6 U	0.52 U	0.52 U	0.62 U	0.71 U	0.58 U	0.59 U	0.59 U	0.61 U	0.71 U	0.57 U

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		SB-14	SB-14	SB-14	SB-15	SB-15	SB-15	SB-15	SB-15	SB-15	SB-18	SB-18	SB-18
Sample Interval (Feet bgs)		11 to 13	17 to 19	23 to 25	4 to 5	5 to 6	7 to 9	11 to 13	17 to 19	23 to 25	7.3 to 7.9	28.5 to 29	42.5 to 43
Sampling Date		10/03/04	10/03/04	10/03/04	08/18/04	08/18/04	08/19/04	08/19/04	08/19/04	08/19/04	07/21/04	07/21/04	07/21/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1	1	1.0	1.0	1.0	1	1	1	1.0	1.0	1	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO												
Antimony	B	0.648 U	0.63 U	0.823 U	0.649 U	0.636 U	0.664 U	0.654 U	0.66 U	0.892 U	0.669 U	0.674 U	0.867 U
Arsenic	12	1.49	1.19	6.72	1.33	1.15	1.82	1.04 J	1.33	5.14	2.97	3.86	9.53
Beryllium	600	0.328 J	0.324 J	0.589 J	0.446 J	0.501 J	0.357 J	0.595	0.326 J	0.577 J	0.282 J	0.349 J	0.709 J
Cadmium	1	0.053 U	0.051 U	0.067 U	0.053 U	0.052 U	0.054 U	0.053 U	0.054 U	0.204 J	0.43 J	0.912	***2.12***
Chromium	40	10.4	10.5	20.9	12.8	16.3	10.8	14	9.47	17.9	13.3	9.27	21.7
Copper	50	14.3	13.1	13.3	20.9	22.3	37.3	21	8.46	12.5	19.2	***104***	14.8
Lead	500	8.21	5.34	8.72	45.1 J	40	146	17.8	47.6	11.4	39.4	211	15
Mercury	0.1	0.021 R	0.016 R	0.033 R	0.07 J	0.08 J	***0.13*** J	0.03 J	0.01 J	0.03 J	***0.18***	***0.45***	0.02
Nickel	25	9.22	9.07	19.9	19.1	13.9	11.4	15.6	12.3	17.7	9.14	10.6	22.2
Selenium	3.9	1.02 J	0.659 J	1.36 J	1.19	1.14	1.43	0.666 J	0.921 J	1.26 J	0.784 J	1.15 J	1.99
Silver	B	0.121 U	0.286 J	0.154 U	0.121 U	0.119 U	0.124 U	0.122 U	0.123 U	0.234 J	0.125 U	0.257 J	0.553 J
Thallium	B	0.914 J	0.983 J	1.05 J	0.381 U	0.373 U	0.389 U	0.383 U	0.387 U	0.523 U	0.392 U	0.395 U	0.508 U
Zinc	50	20	18.8	***52.8***	25.1	30.4	29	39.4	21.4	***50.1***	43.9	***105***	***65.8***

Sample Location		SB-14	SB-14	SB-14	SB-15	SB-15	SB-15	SB-15	SB-15	SB-15	SB-18	SB-18	SB-18
Sample Interval (Feet bgs)		11 to 13	17 to 19	23 to 25	4 to 5	5 to 6	7 to 9	11 to 13	17 to 19	23 to 25	7.3 to 7.9	28.5 to 29	42.5 to 43
Sampling Date		10/03/04	10/03/04	10/03/04	8/18/04	8/18/04	8/19/04	8/19/04	8/19/04	8/19/04	07/21/04	07/21/04	07/21/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO												
Cyanide	NC	0.58	0.57	0.73	0.58 U	0.57 U	0.59 U	0.58 U	0.59 U	0.8 U	0.6 U	0.6 U	0.77 U
Amenable Cyanide	NC	0.58	0.57	0.73	0.58 U	0.57 U	0.59 U	0.58 U	0.59 U	0.8 U	0.6 U	0.6 U	0.77 U

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		SB-53	SB-53	SB-53	SB-54	SB-54	SB-54	SB-54	SB-55	SB-55	SB-55	SB-55
Sample Interval (Feet bgs)		6 to 7	8.3 to 9.3	14 to 15	3 to 4	5 to 6	9 to 10	19 to 21	2 to 3	2 to 3	5 to 6	8 to 9
Sampling Date		03/24/05	03/24/05	03/24/05	03/23/05	03/24/05	03/24/05	03/24/05	03/23/05	03/23/05	03/25/05	03/25/05
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1	1	1	1.0	1.0	1	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO											
Antimony	B	0.733 U	0.668 U	0.636 U	0.685 U	0.987 J	0.647 U	0.638 U	5.62 J	3.33 J	0.6 U	0.626 U
Arsenic	12	***96.1***	1.7	1.99	***12.3***	***24.6***	2.99	0.785 J	***25.3***	***29.5***	6.27	1.18
Beryllium	600	0.277 J	0.431 J	0.294 J	0.575 J	0.294 J	0.449 J	0.225 J	0.291 J	0.25 J	0.262 J	0.344 J
Cadmium	1	0.262 J	0.625	0.235 J	0.056 U	0.131 J	0.053 U	0.052 U	0.246 J	0.057 U	0.049 U	0.051 U
Chromium	40	22	14.7	16.6	11.8	15.7	14.5	9.77	14.5	13.9	13.7	11.1
Copper	50	***60.1***	49.1	34.6	***60.6***	***53***	13	9.76	***94.5***	***99.6***	25.5	12.2
Lead	500	430	3.9	3.96	123	281	7.59	5.89	486	***869***	21.8	3.11
Mercury	0.1	***0.27***	0.007 U	0.013	***0.147*** J	***0.325***	0.01 J	0.007 U	***0.807***	***1.1***	0.035	0.007 U
Nickel	25	3.49 J	15.1	22.6	11.8	12.7	14.8	8.88	20.9	13.3	9.96	10.7
Selenium	3.9	***4.73***	0.372 U	0.354 U	0.502 J	1.08	0.36 U	0.354 U	1.12 J	2.07	0.334 U	0.348 U
Silver	B	1.88	0.125 U	0.119 U	0.985 J	0.11 U	0.121 U	0.119 U	4.11	0.129 U	0.112 U	0.117 U
Thallium	B	0.43 UJ	0.392 UJ	0.373 UJ	0.401 UJ	0.377 J	0.379 UJ	1.29 J	0.382 UJ	0.43 J	0.352 UJ	1.62 J
Zinc	50	***66.1***	***124***	***82***	***60.6***	***196***	25.2	15	***308***	***424***	***61.7***	39.9

Sample Location		SB-53	SB-53	SB-53	SB-54	SB-54	SB-54	SB-54	SB-55	SB-55	SB-55	SB-55
Sample Interval (Feet bgs)		6 to 7	8.3 to 9.3	14 to 15	3 to 4	5 to 6	9 to 10	19 to 21	2 to 3	2 to 3	5 to 6	8 to 9
Sampling Date		03/24/05	03/24/05	03/24/05	03/23/05	03/24/05	03/24/05	03/24/05	03/23/05	03/23/05	03/25/05	03/25/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg Duplicate	mg/Kg	mg/Kg
	TAGM RSCO											
Cyanide	NC	160	0.893	0.565 U	2.66 J	38	0.575 U	0.566 U	22	28	1.12	0.561 U
Amenable Cyanide	NC	12.6	0.6 U	0.56 U	0.61 U	2.1	0.57 U	0.57 U	6.9	0.62 U	0.53 U	0.56 U

Summary of Metals and Cyanide in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-14

Sample Location		**SB-55**							
Sample Interval (Feet bgs)		19 to 20							
Sampling Date		03/25/05							
Matrix		SOIL							
Dilution Factor		1.0							
Units		mg/Kg							
PP Metals	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	0.683 U	58	5	9%	0	0%	< 0.581	5.62
Arsenic	12	1.36	58	56	97%	5	9%	< 0.283	96.1
Beryllium	600	0.357 J	58	58	100%	0	0%	0.149	0.73
Cadmium	1	0.056 U	58	15	26%	2	3%	< 0.047	2.12
Chromium	40	14	58	58	100%	0	0%	5.32	26.3
Copper	50	15.4	58	58	100%	6	10%	5.42	104
Lead	500	21	58	58	100%	3	5%	2.63	1,740
Mercury	0.1	0.029	58	42	72%	11	19%	< 0.007	1.1
Nickel	25	12.8	58	58	100%	1	2%	3.49	26.8
Selenium	3.9	0.38 U	58	38	66%	1	2%	< 0.334	4.73
Silver	B	1.56	58	13	22%	0	0%	< 0.108	4.11
Thallium	B	1.28 J	58	11	19%	0	0%	< 0.341	1.62
Zinc	50	36.7	58	58	100%	18	31%	9.31	424

Sample Location		**SB-55**							
Sample Interval (Feet bgs)		19 to 20							
Sampling Date		03/25/05							
Units		mg/Kg							
	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	0.613 U	58	15	26%	0	0%	< 0.52	160
Amenable Cyanide	NC	0.61 U	58	8	14%	0	0%	< 0.52	12.6

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-9	SB-9	SB-9	SB-9
Sample Interval (Feet bgs)		6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	4 to 5	8 to 10	20 to 22	26 to 28
Sampling Date		07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	09/12/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Pesticides (ug/Kg)	TAGM RSCO										
alpha-BHC	110	1.4 U	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	1.2 U	1.3 U	1.4 U	1.3 U
beta-BHC	200	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.2 U	1.3 U	1.3 U	1.4 U	1.3 U
delta-BHC	300	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.95 U	0.97 U	1 UJ	1.1 UJ	1 UJ
gamma-BHC	60	1.5 U	1.4 U	1.4 U	1.5 U	1.4 U	1.3 U	1.3 U	1.4 U	1.5 U	1.4 U
Heptachlor	100	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.4 U	1.4 U	1.5 U	1.6 U	1.5 U
Aldrin	41	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U
Heptachlor epoxide	20	1.6 U	1.5 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.6 U	1.5 U
Endosulfan I	900	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.7 U
Dieldrin	44	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U
4,4-DDE	2,100	1.6 U	1.5 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U	1.6 U	1.5 U
Endrin	100	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U	2 U	2 U	2.1 U	2.2 U	2.1 U
Endosulfan II	900	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.4 U	1.5 U	1.5 U	1.6 U	1.5 U
4,4-DDD	2,900	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	1.2 U	1.3 U	1.2 U
Endosulfan Sulfate	NC	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.7 U
4,4-DDT	2100	2.3 U	2.2 U	2.2 U	2.3 U	2.2 U	2 U	2 U	2.1 UJ	2.3 UJ	2.1 UJ
Methoxychlor	NC	1.6 U	1.5 U	1.5 U	1.6 U	1.5 U	1.3 U	1.4 U	1.4 U	1.5 U	1.5 U
Endrin ketone	NC	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.4 U	1.4 U	1.5 U	1.6 U	1.5 U
Endrin aldehyde	NC	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.6 U	1.7 U	1.8 U	1.9 U	1.8 U
alpha-Chlordane	NC	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.7 U
gamma-Chlordane	540	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.7 U
Toxaphene	NC	3.7 U	3.6 U	3.6 U	3.8 U	3.6 U	3.2 U	3.3 U	3.4 U	3.7 U	3.5 U
Chlordane	540	0.41 U	NR	NR	NR	0.61 U	0.4 U	0.4 U	0.42 U	0.44 U	0.42 U

Sample Location		SB-7	SB-7	SB-7	SB-7	MW-7A	SB-8	SB-9	SB-9	SB-9	SB-9
Sample Interval (Feet bgs)		6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	4 to 5	8 to 10	20 to 22	26 to 28
Sampling Date		07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	09/12/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Herbicides (ug/Kg)	TAGM RSCO										
DICAMBA	NC	12 P	1.5 U	1.6 U	1.6 U	16 P	14 P	1.4 U	1.5 U	1.6 U	1.5 U
DICHLORPROP	NC	1.7 U	3.4 U	3.5 U	3.6 U	1.7 U	1.5 U	3.2 U	3.3 U	3.6 U	3.3 U
2,4-D	500	1.6 J	22 P	5.5 UJ	5.8 U	1.5 J	1.4 J	5.1 U	5.3 U	5.7 U	5.3 U
2,4,5-TP (SILVEX)	700	3.4 U	1.6 U	1.7 U	1.7 U	3.3 U	3 U	1.5 U	1.6 U	1.7 U	1.6 U
2,4,5-T	1900	1.3 U	1.5 U	1.5 U	1.6 U	1.3 U	1.2 U	1.4 U	1.5 U	1.6 U	1.5 U
2,4-DB	NC	1.6 U	3.2 U	3.3 U	3.4 U	1.5 U	1.4 U	3 U	3.1 U	3.4 U	3.2 U
DINOSEB	NC	3.5 U	1.3 U	1.3 U	1.4 U	3.4 U	3.1 U	1.2 U	1.2 U	1.3 U	1.3 U

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		**SB-7**	**SB-7**	**SB-7**	**SB-7**	**MW-7A**	**SB-8**	**SB-9**	**SB-9**	**SB-9**	**SB-9**
Sample Interval (Feet bgs)		6 to 7	17 to 19	27 to 29	43 to 45	6 to 7	4 to 5	4 to 5	8 to 10	20 to 22	26 to 28
Sampling Date		07/09/04	08/09/04	08/09/04	08/09/04	07/09/04	07/09/04	09/12/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCBs (ug/Kg)	TAGM RSCO										
Aroclor-1016	1,000 (surface) 10,000 (subsurface)	6.4 UJ	6.2 U	6.2 U	6.5 U	6.2 UJ	5.6 UJ	5.6 U	5.9 U	6.4 U	6 U
Aroclor-1221	1,000 (surface) 10,000 (subsurface)	4.4 UJ	4.2 U	4.3 U	4.4 U	4.2 UJ	3.8 UJ	3.8 U	4 U	4.4 U	4.1 U
Aroclor-1232	1,000 (surface) 10,000 (subsurface)	3 UJ	2.9 U	2.9 U	3 U	2.9 UJ	2.6 UJ	2.6 U	2.7 U	3 U	2.8 U
Aroclor-1242	1,000 (surface) 10,000 (subsurface)	3.8 UJ	3.7 U	3.7 U	3.9 U	3.7 UJ	3.3 UJ	3.3 U	3.5 U	3.8 U	3.6 U
Aroclor-1248	1,000 (surface) 10,000 (subsurface)	4.5 UJ	4.4 U	4.4 U	4.6 U	4.3 UJ	3.9 UJ	4 U	4.1 U	4.5 U	4.2 U
Aroclor-1254	1,000 (surface) 10,000 (subsurface)	1.7 UJ	1.6 U	1.6 U	1.7 U	1.6 UJ	1.4 UJ	1.5 U	1.5 U	1.7 U	1.5 U
Aroclor-1260	1,000 (surface) 10,000 (subsurface)	3.6 UJ	3.5 U	3.5 U	3.7 U	3.5 UJ	3.2 UJ	3.2 U	3.3 U	3.6 U	3.4 U

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)		32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29	35 to 37
Sampling Date		09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Pesticides (ug/Kg)	TAGM RSCO										
alpha-BHC	110	1.4 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.4 U	1.3 U
beta-BHC	200	1.4 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U
delta-BHC	300	1.1 UJ	0.98 U	0.98 UJ	1 UJ	1.1 UJ	1.1 UJ	0.97 U	1.1 UJ	1.1 UJ	1.1 UJ
gamma-BHC	60	1.5 U	1.3 U	1.3 U	1.4 U	1.4 U	1.5 U	1.3 U	1.5 U	1.5 U	1.4 U
Heptachlor	100	1.6 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U
Aldrin	41	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U
Heptachlor epoxide	20	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	1.5 U
Endosulfan I	900	1.8 U	1.6 U	1.6 U	1.7 U	1.7 U	1.8 U	1.6 U	1.8 U	1.8 U	1.8 U
Dieldrin	44	1.3 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	1.2 U
4,4-DDE	2,100	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	1.5 U
Endrin	100	2.3 U	2 U	2 U	2.1 U	2.2 U	2.2 U	2 U	2.2 U	2.3 U	2.2 U
Endosulfan II	900	1.6 U	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U
4,4-DDD	2,900	1.3 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	1.2 U
Endosulfan Sulfate	NC	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.8 U	1.6 U	1.8 U	1.8 U	1.8 U
4,4-DDT	2100	2.3 UJ	2 U	2 UJ	2.1 UJ	2.2 UJ	2.2 UJ	2 U	2.2 UJ	2.3 UJ	2.2 UJ
Methoxychlor	NC	1.6 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	1.5 U
Endrin ketone	NC	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U
Endrin aldehyde	NC	1.9 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.8 U
alpha-Chlordane	NC	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.8 U	1.6 U	1.8 U	1.8 U	1.8 U
gamma-Chlordane	540	1.8 U	1.6 U	1.6 U	1.7 U	1.8 U	1.8 U	1.6 U	1.8 U	1.8 U	1.8 U
Toxaphene	NC	3.7 U	3.3 U	3.3 U	3.4 U	3.6 U	3.6 U	3.3 U	3.6 U	3.7 U	3.6 U
Chlordane	540	0.45 U	0.4 U	0.4 U	0.41 U	0.43 U	0.44 U	0.4 U	0.44 U	0.45 U	0.43 U

Sample Location		SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)		32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29	35 to 37
Sampling Date		09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Herbicides (ug/Kg)	TAGM RSCO										
DICAMBA	NC	1.6 U	1.5 U	1.4 U	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.6 U
DICHLORPROP	NC	3.6 U	3.2 U	3.2 U	3.3 U	3.4 U	3.5 U	3.2 U	3.5 U	3.6 U	3.5 U
2,4-D	500	5.7 U	11 U	5.1 U	5.3 U	5.5 U	5.6 U	5.1 U	5.5 U	5.7 UJ	5.5 U
2,4,5-TP (SILVEX)	700	1.7 U	1.6 U	1.5 U	1.6 U	1.7 U	1.7 U	1.5 U	1.7 U	1.7 U	1.7 U
2,4,5-T	1900	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	7.7	1.4 U	1.5 U	1.6 U	6.8 PJ
2,4-DB	NC	3.4 U	3.1 U	3 U	3.1 U	3.3 U	3.3 U	3 U	3.3 U	3.4 U	3.3 U
DINOSEB	NC	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		SB-9	SB-10	SB-10	SB-10	SB-10	SB-10	SB-11	SB-11	SB-11	SB-11
Sample Interval (Feet bgs)		32 to 34	5 to 6	6 to 8	8 to 10	20 to 22	48 to 50	5 to 6	13 to 15	27 to 29	35 to 37
Sampling Date		09/18/04	09/11/04	09/18/04	09/18/04	09/18/04	09/18/04	09/11/04	09/18/04	09/18/04	09/18/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCBs (ug/Kg)	TAGM RSCO										
Aroclor-1016	1,000 (surface) 10,000 (subsurface)	6.4 U	5.8 U	5.8 U	5.9 U	6.2 U	6.3 U	5.7 U	6.3 U	6.4 U	6.2 U
Aroclor-1221	1,000 (surface) 10,000 (subsurface)	4.4 U	3.9 U	3.9 U	4 U	4.2 U	4.3 U	3.9 U	4.3 U	4.4 U	4.2 U
Aroclor-1232	1,000 (surface) 10,000 (subsurface)	3 U	2.7 U	2.7 U	2.7 U	2.8 U	2.9 U	2.6 U	2.9 U	3 U	2.9 U
Aroclor-1242	1,000 (surface) 10,000 (subsurface)	3.8 U	3.4 U	3.4 U	3.5 U	3.6 U	3.7 U	3.4 U	3.7 U	3.8 U	3.7 U
Aroclor-1248	1,000 (surface) 10,000 (subsurface)	4.5 U	4.1 U	4 U	4.1 U	4.3 U	4.4 U	4 U	4.4 U	4.5 U	4.3 U
Aroclor-1254	1,000 (surface) 10,000 (subsurface)	1.7 U	1.5 U	1.5 U	1.5 U	1.6 U	1.6 U	1.5 U	1.6 U	1.7 U	1.6 U
Aroclor-1260	1,000 (surface) 10,000 (subsurface)	16 J	3.3 U	3.3 U	21 PJ	3.5 U	3.5 U	3.2 U	3.5 U	3.6 U	3.5 U

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		**SB-11**	**SB-14**							
Sample Interval (Feet bgs)		37 to 39	4 to 5							
Sampling Date		09/18/04	09/11/04							
Units		ug/Kg	ug/Kg							
Pesticides (ug/Kg)	TAGM RSCO			Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
alpha-BHC	110	1.3 U	1.3 U	22	0	0%	0	0%	< 1.2	< 1.4
beta-BHC	200	1.4 U	1.3 U	22	0	0%	0	0%	< 1.2	< 1.4
delta-BHC	300	1.1 UJ	1 U	22	0	0%	0	0%	< 0.95	< 1.1
gamma-BHC	60	1.5 U	1.4 U	22	0	0%	0	0%	< 1.3	< 1.5
Heptachlor	100	1.6 U	1.5 U	22	0	0%	0	0%	< 1.4	< 1.7
Aldrin	41	1.3 U	1.2 U	22	0	0%	0	0%	< 1.1	< 1.3
Heptachlor epoxide	20	1.5 U	1.4 U	22	0	0%	0	0%	< 1.4	< 1.6
Endosulfan I	900	1.8 U	1.7 U	22	0	0%	0	0%	< 1.6	< 1.8
Dieldrin	44	1.2 U	1.1 U	22	0	0%	0	0%	< 1.1	< 1.3
4,4-DDE	2,100	1.5 U	1.4 U	22	0	0%	0	0%	< 1.4	< 1.6
Endrin	100	2.2 U	2.1 U	22	0	0%	0	0%	< 2	< 2.3
Endosulfan II	900	1.6 U	1.5 U	22	0	0%	0	0%	< 1.4	< 1.7
4,4-DDD	2,900	1.2 U	1.2 U	22	0	0%	0	0%	< 1.1	< 1.3
Endosulfan Sulfate	NC	1.8 U	1.7 U	22	0	0%	0	0%	< 1.6	< 1.9
4,4-DDT	2100	2.2 UJ	2.1 U	22	0	0%	0	0%	< 2	< 2.3
Methoxychlor	NC	1.5 U	1.4 U	22	0	0%	0	0%	< 1.3	< 1.6
Endrin ketone	NC	1.6 U	1.5 U	22	0	0%	0	0%	< 1.4	< 1.6
Endrin aldehyde	NC	1.8 U	1.7 U	22	0	0%	0	0%	< 1.6	< 1.9
alpha-Chlordane	NC	1.8 U	1.7 U	22	0	0%	0	0%	< 1.6	< 1.9
gamma-Chlordane	540	1.8 U	1.7 U	22	0	0%	0	0%	< 1.6	< 1.9
Toxaphene	NC	3.6 U	3.4 U	22	0	0%	0	0%	< 3.2	< 3.8
Chlordane	540	0.44 U	0.41 U	19	0	0%	0	0%	< 0.4	< 0.61

Sample Location		**SB-11**	**SB-14**							
Sample Interval (Feet bgs)		37 to 39	4 to 5							
Sampling Date		09/18/04	09/11/04							
Units		ug/Kg	ug/Kg							
Herbicides (ug/Kg)	TAGM RSCO			Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
DICAMBA	NC	1.5 U	1.5 U	22	3	14%	0	0%	< 1.4	16
DICHLORPROP	NC	3.4 U	3.3 U	22	0	0%	0	0%	< 1.5	< 3.6
2,4-D	500	5.5 U	5.2 UJ	22	4	18%	0	0%	< 1.4	22
2,4,5-TP (SILVEX)	700	1.7 U	1.6 U	22	0	0%	0	0%	< 1.5	< 3.4
2,4,5-T	1900	7.1	1.5 UJ	22	3	14%	0	0%	< 1.2	7.7
2,4-DB	NC	3.3 U	3.1 U	22	0	0%	0	0%	< 1.4	< 3.4
DINOSEB	NC	1.3 U	1.2 U	22	0	0%	0	0%	< 1.2	< 3.5

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 2
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-15

Sample Location		**SB-11**	**SB-14**							
Sample Interval (Feet bgs)		37 to 39	4 to 5							
Sampling Date		09/18/04	09/11/04							
Units		ug/Kg	ug/Kg							
PCBs (ug/Kg)	TAGM RSCO			Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Aroclor-1016	1,000 (surface) 10,000 (subsurface)	6.2 U	5.9 U	22	0	0%	0	0%	< 5.6	< 6.5
Aroclor-1221	1,000 (surface) 10,000 (subsurface)	4.2 U	4 U	22	0	0%	0	0%	< 3.8	< 4.4
Aroclor-1232	1,000 (surface) 10,000 (subsurface)	2.9 U	2.7 U	22	0	0%	0	0%	< 2.6	< 3
Aroclor-1242	1,000 (surface) 10,000 (subsurface)	3.7 U	3.5 U	22	0	0%	0	0%	< 3.3	< 3.9
Aroclor-1248	1,000 (surface) 10,000 (subsurface)	4.4 U	4.1 U	22	0	0%	0	0%	< 3.9	< 4.6
Aroclor-1254	1,000 (surface) 10,000 (subsurface)	1.6 U	1.5 U	22	0	0%	0	0%	< 1.4	< 1.7
Aroclor-1260	1,000 (surface) 10,000 (subsurface)	3.5 U	3.3 U	22	2	9%	0	0%	< 3.2	21

Summary of Field Work and Observations for Area 3
Former West 18th Street Gas Works
Consolidated Edison Companies of New York, Inc.
Table 4-16

Boring / Well ID	Date Completed	Boring Depth (ft bgs)	Well Screen Interval	Depth to GW (ft bgs)	Depth to top of Clay (ft bgs)	Field Observations
SB-19	2-May	21	N/A	9	N/A	Refusal at 20' bgs; 9'-11': SI MGP-related odor, N/S; 11'-15': MGP-related odor, N/S, sheen; 17' - 21': strong ammonia-like odor, heavy blk staining, sheen, Max. PID = 8.6 ppm at 17'-19';
SB-20	2-May	51	N/A	11	17.2	No low perm. Layer, no high PID rdgs, 11' - 15' bgs: SI odor; 41'-43': N/S, si odor, si sheen, PID= 0.5ppm; 43' - 45': si non MGP-related odor, PID= 2.1ppm; 45'-51': N/O, N/S and si sheen, Max. PID= 1.5ppm
SB-21	4-May	23	N/A	11	17	7'-9': Organic odor, N/S and sheen, Max. PID= 8.6ppm; 9'-11': SI organic odor, N/S, Max. PID= 3.0ppm; 13'-15': SI organic odor, N/S;
SB-22	27-Apr	27	N/A	11	21.9	11'-13' bgs: slight odor, N/S, Max. PID: 4.3 ppm 13'-17' bgs: N/O, N/S, slight sheen, Max. PID: 12.7 ppm at 15'-17' bgs, 17'-19' bgs: slight odor, N/S, slight sheen, Max. PID: 15.2 ppm, 19'-21' bgs: N/O, N/S, Max. PID: 27.3 ppm
SB-23	27-Apr	25	N/A	9	17.5	5'-9': SI odor, N/S, Max. PID= 20ppm. 9' - 17' bgs: petroleum-like odor, some staining. Max. PID: 47.0 ppm at 15' - 17' bgs; 17'- 25': SI odor, N/S. Max. PID= 20ppm at 17'-19'
SB-24	31-Aug	86	N/A	5	45	Bedrock at 86' bgs. No odor or staining between bottom of clay and top of bedrock.
MW-24A	26-Apr	16	6 to 16	9	N/A	No odor and some blk staining at 5'-11', Max. PID= 1.5ppm at 5'-7';
MW-24B	24-Apr to 25-Apr	55	45 to 55	9	33-44.5'	5'- 11': N/O, some blk staining, Max. PID= 1.5ppm at 5'-7'; 23' - 33.8' bgs: MGP-related odor, blk staining, visible OM, TM blebs at 29' - 31' bgs. Max. PID: 560 ppm at 25' - 27' bgs. Steel casing set at approx. 33' bgs.
SB-25	26-Apr	36	N/A	9	33	7'-9': N/O, tr blk staining; 18' - 28' bgs: strong odor/ 18' - 24' bgs: black staining. 32'-34' bgs: slight odor
SB-26	26-Jul	37	N/A	7	32	11'-13' bgs: sewage-like odor, N/S, Max. PID: 0.2 ppm; 15'-33' bgs: slight MGP-related odor, black staining, 21'-33' bgs visible sheen, 29'-33' bgs visible OLM, Max. PID: 17.4 ppm at 31'-33' bgs.
SB-27	22-Jul	45	N/A	5.5	27 -31 and 41.3'-45	41-43' bgs: SI odor, sheen and N/S. Max. PID: 10.0 ppm at 41' -43' bgs.

Summary of Field Work and Observations for Area 3
Former West 18th Street Gas Works
Consolidated Edison Companies of New York, Inc.
Table 4-16

Boring / Well ID	Date Completed	Boring Depth (ft bgs)	Well Screen Interval	Depth to GW (ft bgs)	Depth to top of Clay (ft bgs)	Field Observations
SB-47	3-May	19	N/A	10	15	13' - 15' bgs: tr odor and tr blk staining, Max. PID: 0.0 ppm.
SB-48	3-May	21	N/A	9	16	9'-13": SI MGP-related odor, N/S, Max. PID = 5.4ppm at 11'-13'; 13' - 16' bgs: strong coal tar odor, sheen, visible OLM and TM, N/S, Max. PID: 1,085 ppm at 15' - 16' bgs.
SB-49	28-Apr	24	N/A	12	17.9	8' - 18' bgs: very strong odor. Max. PID: 700 ppm at 10' - 12' bgs, 18'-20': strong odor, N/S, Max. PID= 5ppm; 20'- 22': SI odor, N/S, Max. PID= 37ppm;
SB-50	27-Apr	33	N/A	11	31	7'-9' bgs: N/O, trace black staining, Max. PID: 4.9 ppm; 13'-15' bgs: slight odor, N/S; 15'-17' bgs: slight non-MGP-related odor, N/S, Max. PID: 2.0 ppm; 17'-27': N/O, N/S, slight sheen, Max. PID: 6.0 ppm at 21'-23' bgs and 25'-27' bgs.
SB-51	27-Apr	33	N/A	9	22	11'-13' bgs: N/O, trace black staining, Max. PID: 6.0 ppm; 13'-15' bgs: strong odor and black staining, Max. PID: 84.0 ppm; 17'-25' bgs: strong odor, 19'-23' bgs black staining, Max. PID: 140 ppm at 21'-23' bgs; 25'-27' bgs: slight odor, N/S, Max PID: 4.0 ppm.
SB-52	1-May	35	N/A	9	31.4	7'-9' bgs: slight MGP-related odor, N/S, Max. PID: 32.2 ppm; 13'-15' bgs: N/O, trace black staining, Max. PID: 0.4 ppm; 15-17' bgs: slight MGP-related odor, N/S, Max. PID: 0.7 ppm; 23'-25' bgs: solvent-like odor, black staining, sheen, Max. PID: 12.8 ppm; 25'-31' bgs strong MGP-related odor, black staining, visible OLM, 25'-27' bgs sheen, 27'-31' bgs coal tar.
TP-3	1-May	7.5	N/A	None	None	Coal tar residue observed. Brick Foundation wall
TP-6	2-May	appr. 10	N/A	9'11"	None	Brick wall at guard rail, brick wall foundation in center, block wall (?)

Note: Elevations are reported in feet below ground surface (ft bgs).

Laboratory and Data Validation Qualifiers
Former Broadway/Dyckman Street Station
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		TP-3	TP-6	SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		7.5 to 7.5	9.5 to 9.5	5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	41 to 43	49 to 51
Sampling Date		5/1/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 U	1.4 U	1.4 U	54 U	1.4 U	1.5 U	1.7 U	1.2 U	1.2 U	1.5 U
Chloromethane	NC	0.38 U	0.38 U	0.38 U	110 U	0.37 U	0.4 U	0.45 U	0.33 U	0.33 U	0.4 U
Vinyl Chloride	200	0.27 U	0.27 U	0.27 U	43 U	0.26 U	0.29 U	0.32 U	0.24 U	0.24 U	0.29 U
Bromomethane	NC	0.81 U	0.8 U	0.8 U	130 U	0.79 U	0.86 U	0.97 U	0.71 U	0.71 U	0.86 U
Chloroethane	1,900	0.6 U	0.6 U	0.6 U	140 U	0.58 U	0.64 U	0.72 U	0.52 U	0.52 U	0.64 U
Trichlorofluoromethane	NC	2.8 U	2.8 U	2.8 U	92 U	2.7 U	3 U	3.4 U	2.5 U	2.5 U	3 U
1,1,2-Trichlorotrifluoroethane	6,000	0.53 U	0.52 U	0.52 U	110 U	0.51 U	0.56 U	0.63 U	0.46 U	0.46 U	0.56 U
1,1-Dichloroethene	400	0.25 U	0.24 U	0.24 U	52 U	0.24 U	0.26 U	0.29 U	0.22 U	0.22 U	0.26 U
Acetone	200	8.6 U	8.5 U	8.5 U	530 U	8.3 U	9.1 U	41 J	7.5 U	7.5 U	9.1 U
Carbon Disulfide	2,700	0.12 U	0.11 U	0.11 U	62 U	0.11 U	0.12 U	0.14 U	0.1 U	0.1 U	0.12 U
Methyl tert-butyl Ether	120	0.26 U	0.26 U	0.26 U	58 U	0.25 U	0.28 U	0.31 U	0.23 U	0.23 U	0.28 U
Methyl Acetate	NC	1.5 U	1.4 U	1.4 U	130 U	1.4 U	1.6 U	1.7 U	1.3 U	1.3 U	1.6 U
Methylene Chloride	100	0.78 U	0.77 U	0.77 U	100 U	0.76 U	0.83 U	0.93 U	0.68 U	0.68 U	0.83 U
trans-1,2-Dichloroethene	300	0.43 U	0.42 U	0.42 U	82 U	0.41 U	0.45 U	0.51 U	0.37 U	0.37 U	0.45 U
1,1-Dichloroethane	200	0.41 U	0.4 U	0.4 U	34 U	0.39 U	0.43 U	0.48 U	0.35 U	0.35 U	0.43 U
Cyclohexane	NC	0.35 U	0.35 U	0.35 U	59 U	0.34 U	0.37 U	0.42 U	0.3 U	0.3 U	0.37 U
2-Butanone	300	2.6 U	2.6 U	2.6 U	450 U	2.5 U	2.8 U	3.1 U	2.3 U	2.3 U	2.8 U
Carbon Tetrachloride	600	0.34 U	0.34 U	0.34 U	75 U	0.33 U	0.36 U	0.41 U	0.3 U	0.3 U	0.36 U
cis-1,2-Dichloroethene	NC	0.4 U	0.4 U	0.4 U	120 U	0.39 U	0.43 U	0.48 U	0.35 U	0.35 U	0.43 U
Chloroform	300	0.27 U	0.27 U	0.27 U	92 U	0.26 U	0.29 U	0.32 U	0.24 U	0.24 U	0.29 U
1,1,1-Trichloroethane	800	0.31 U	0.31 U	0.31 U	65 U	0.3 U	0.33 U	0.37 U	0.27 U	0.27 U	0.33 U
Methylcyclohexane	NC	0.41 U	0.4 U	0.4 U	92 U	0.39 U	0.43 U	0.49 U	0.36 U	0.36 U	0.43 U
Benzene	60	0.23 U	0.23 U	0.23 U	***7000***	0.22 U	0.25 U	***210***	0.2 U	0.2 U	0.25 U
1,2-Dichloroethane	200	3.5 U	3.5 U	3.5 U	51 U	3.4 U	3.8 U	4.2 U	3.1 U	3.1 U	3.8 U
Trichloroethene	700	0.37 U	0.36 U	0.36 U	110 U	0.36 U	0.39 U	0.44 U	0.32 U	0.32 U	0.39 U
1,2-Dichloropropane	NC	0.39 U	0.38 U	0.38 U	51 U	0.37 U	0.41 U	0.46 U	0.34 U	0.34 U	0.41 U
Bromodichloromethane	NC	0.38 U	0.38 U	0.38 U	56 U	0.37 U	0.41 U	0.46 U	0.33 U	0.33 U	0.41 U
4-Methyl-2-Pentanone	1,000	2.8 U	2.7 U	2.7 U	210 U	2.7 U	2.9 U	3.3 U	2.4 U	2.4 U	2.9 U
Toluene	1,500	0.3 U	0.29 U	0.29 U	***3700*** J	0.29 U	0.32 U	0.35 U	0.26 U	0.26 U	0.32 U
t-1,3-Dichloropropene	NC	0.29 U	0.29 U	0.29 U	68 U	0.28 U	0.31 U	0.35 U	0.26 U	0.26 U	0.31 U
cis-1,3-Dichloropropene	NC	0.22 U	0.22 U	0.22 U	24 U	0.22 U	0.24 U	0.27 U	0.19 U	0.19 U	0.24 U
1,1,2-Trichloroethane	NC	0.58 U	0.57 U	0.57 U	83 U	0.56 U	0.62 U	0.69 U	0.51 U	0.51 U	0.62 U
2-Hexanone	NC	3.7 U	3.6 U	3.6 U	110 U	3.6 U	3.9 U	4.4 U	3.2 U	3.2 U	3.9 U
Dibromochloromethane	NA	0.33 U	0.33 U	0.33 U	61 U	0.32 U	0.35 U	0.4 U	0.29 U	0.29 U	0.35 U
1,2-Dibromoethane	NC	0.48 U	0.47 U	0.47 U	100 U	0.46 U	0.51 U	0.57 U	0.42 U	0.42 U	0.51 U
Tetrachloroethene	1,400	0.73 U	0.72 U	0.72 U	53 U	0.71 U	0.77 U	0.87 U	0.64 U	0.64 U	0.77 U
Chlorobenzene	1,700	0.4 U	0.4 U	0.4 U	59 U	0.39 U	0.43 U	0.48 U	0.35 U	0.35 U	0.43 U
Ethyl Benzene	5,500	0.29 U	0.28 U	0.28 U	180 J	0.28 U	0.3 U	6.3 J	0.25 U	0.25 U	0.3 U
m/p-Xylenes	1,200	0.59 U	0.58 U	0.58 U	***1400*** J	0.57 U	0.63 U	0.7 U	0.51 U	0.51 U	0.63 U
o-Xylene	600	0.5 U	0.49 U	0.49 U	470 J	0.48 U	0.53 U	6.7 J	0.43 U	0.43 U	0.53 U
Styrene	NC	0.36 U	0.36 U	0.36 U	55 U	0.35 U	0.38 U	0.43 U	0.31 U	0.31 U	0.38 U
Bromoform	NC	0.34 U	0.34 U	0.34 U	40 U	0.33 U	0.36 U	0.41 U	0.3 U	0.3 U	0.36 U
Isopropylbenzene	2,300	0.43 U	0.42 U	0.42 U	53 U	0.41 U	0.45 R	2.2 J	0.37 U	0.37 U	0.45 U
1,1,2,2-Tetrachloroethane	600	0.61 U	0.6 U	0.6 U	79 U	0.59 U	0.65 U	0.72 U	0.53 U	0.53 U	0.65 U
1,3-Dichlorobenzene	1,600	0.24 U	0.24 U	0.24 U	60 U	0.23 U	0.26 U	0.29 U	0.21 U	0.21 U	0.26 U
1,4-Dichlorobenzene	8,500	0.4 U	0.4 U	0.4 U	62 U	0.39 U	0.43 U	0.48 U	0.35 U	0.35 U	0.43 U
1,2-Dichlorobenzene	7,900	0.47 U	0.46 U	0.46 U	59 U	0.45 U	0.5 U	0.56 U	0.41 U	0.41 U	0.5 U
1,2-Dibromo-3-Chloropropane	NC	0.78 U	0.77 U	0.77 U	150 U	0.75 U	0.83 U	0.93 U	0.68 U	0.68 U	0.83 U
1,2,4-Trichlorobenzene	3,400	0.29 U	0.28 U	0.28 U	46 U	0.28 U	0.3 U	0.34 U	0.25 U	0.25 U	0.3 U
Total Confident Conc. VOC	10,000	ND	ND	ND	***12,750***	ND	ND	266.2	ND	ND	ND

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-21	SB-21	SB-21	SB-22	SB-22	SB-22	SB-22	SB-22	SB-23	SB-23
Sample Interval (Feet bgs)		11 to 13	15 to 17	21 to 23	5 to 7	11 to 13	15 to 17	22 to 23	26 to 27	9 to 10	15 to 16
Sampling Date		5/4/04	5/4/04	5/4/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 U	1.5 U	1.8 U	1.3 U	1.4 U	1.4 U	1.8 U	2 UR	1.4 U	1.5 U
Chloromethane	NC	0.37 U	0.4 U	0.49 U	0.36 U	0.38 U	0.38 U	0.49 U	0.54 UR	0.38 U	0.39 U
Vinyl Chloride	200	0.26 U	0.28 U	0.35 U	0.26 U	0.27 U	0.27 U	0.35 U	0.39 UR	0.27 U	0.28 U
Bromomethane	NC	0.8 U	0.85 U	1.1 U	0.77 U	0.8 U	0.81 U	1.1 U	1.2 UR	0.81 U	0.83 U
Chloroethane	1,900	0.59 U	0.63 U	0.78 U	0.57 U	0.6 U	0.6 U	0.78 U	0.86 UR	0.6 U	0.62 U
Trichlorofluoromethane	NC	2.8 U	3 U	3.7 U	2.7 U	2.8 U	2.8 U	3.7 U	4 UR	2.8 U	2.9 U
1,1,2-Trichlorotrifluoroethane	6,000	0.52 U	0.55 U	0.69 U	0.5 U	0.52 U	0.53 U	0.69 U	0.75 UR	0.53 U	0.54 U
1,1-Dichloroethene	400	0.24 U	0.26 U	0.32 U	0.23 U	0.24 U	0.25 U	0.32 U	0.35 UR	0.25 U	0.25 U
Acetone	200	8.4 U	9 U	11 U	8.1 U	26 J	8.6 U	110	***680*** UDJ	22 J	46 J
Carbon Disulfide	2,700	0.11 U	0.12 U	0.15 U	0.11 U	2.2 J	0.12 U	4.1 J	80 UDJ	0.12 U	0.12 U
Methyl tert-butyl Ether	120	0.26 U	0.28 U	0.34 U	0.25 U	0.26 U	0.26 U	0.34 U	0.38 UR	0.26 U	30
Methyl Acetate	NC	1.4 U	1.5 U	1.9 U	1.4 U	1.4 U	1.5 U	1.9 U	2.1 UR	1.5 U	1.5 U
Methylene Chloride	100	0.76 U	0.82 U	1 U	0.74 U	0.77 U	0.78 U	1 U	1.1 UR	0.78 U	0.8 U
trans-1,2-Dichloroethene	300	0.42 U	0.45 U	0.55 U	0.4 U	0.42 U	0.43 U	0.55 U	0.61 UR	0.43 U	0.44 U
1,1-Dichloroethane	200	0.4 U	0.43 U	0.53 U	0.38 U	0.4 U	0.41 U	0.53 U	0.58 UR	0.41 U	0.42 U
Cyclohexane	NC	0.34 U	0.37 U	0.46 U	0.33 U	0.35 U	14	8.7	0.5 UR	0.35 U	0.36 U
2-Butanone	300	2.6 U	2.7 U	3.4 U	2.5 U	4.1 J	2.6 U	22 J	***580*** UDJ	2.6 U	2.7 U
Carbon Tetrachloride	600	0.33 U	0.36 U	0.44 U	0.32 U	0.34 U	0.34 U	0.44 UJ	0.49 UR	0.34 U	0.35 U
cis-1,2-Dichloroethene	NC	0.4 U	0.42 U	0.53 U	0.38 U	0.4 U	0.4 U	0.53 U	0.58 UR	0.4 U	0.41 U
Chloroform	300	0.27 U	0.29 U	0.35 U	0.26 U	0.27 U	0.27 U	0.35 U	0.39 UR	0.27 U	0.28 U
1,1,1-Trichloroethane	800	0.3 U	0.33 U	0.4 U	0.29 U	0.31 U	0.31 U	0.4 U	0.44 UR	0.31 U	0.32 U
Methylcyclohexane	NC	0.4 U	0.43 U	0.53 U	0.39 U	0.4 U	5.8 J	10 J	0.58 UR	19 J	5 J
Benzene	60	0.23 U	0.24 U	30	6.3	7.4	39	***880*** DJ	***8900*** DJ	4.4 J	8.4
1,2-Dichloroethane	200	3.5 U	3.7 U	4.6 U	3.3 U	3.5 U	3.5 U	4.6 UJ	5 UR	3.5 U	3.6 U
Trichloroethene	700	0.36 U	0.39 U	0.48 U	0.35 U	0.36 U	0.37 U	0.48 UJ	0.52 UR	0.37 U	0.38 U
1,2-Dichloropropane	NC	0.38 U	0.4 U	0.5 U	0.36 U	0.38 U	0.39 U	0.5 UJ	0.55 UR	0.39 U	0.39 U
Bromodichloromethane	NC	0.37 U	0.4 U	0.5 U	0.36 U	0.38 U	0.38 U	0.5 UJ	0.55 UR	0.38 U	0.39 U
4-Methyl-2-Pentanone	1,000	2.7 U	2.9 U	3.6 U	2.6 U	2.7 U	2.8 U	3.6 UJ	3.9 UR	2.8 U	2.8 U
Toluene	1,500	0.29 U	0.31 U	0.39 U	8.2 J	6.1	24	150 J	53 J	10	5.4 J
t-1,3-Dichloropropene	NC	0.29 U	0.31 U	0.38 U	0.28 U	0.29 U	0.29 U	0.38 UJ	0.42 UR	0.29 U	0.3 U
cis-1,3-Dichloropropene	NC	0.22 U	0.23 U	0.29 U	0.21 U	0.22 U	0.22 U	0.29 UJ	0.32 UR	0.22 U	0.23 U
1,1,2-Trichloroethane	NC	0.57 U	0.61 U	0.76 U	0.55 U	0.57 U	0.58 U	0.76 UJ	0.83 UR	0.58 U	0.6 U
2-Hexanone	NC	3.6 U	3.9 U	4.8 U	3.5 U	3.6 U	3.7 U	4.8 UJ	5.2 UR	3.7 U	3.8 U
Dibromochloromethane	NA	0.33 U	0.35 U	0.43 U	0.32 U	0.33 U	0.33 U	0.43 UJ	0.48 UR	0.33 U	0.34 U
1,2-Dibromoethane	NC	0.47 U	0.5 U	0.62 U	0.45 U	0.47 U	0.48 U	0.62 UJ	0.68 UR	0.48 U	0.49 U
Tetrachloroethene	1,400	0.71 U	0.77 U	0.95 U	0.69 U	0.72 U	0.73 U	0.95 UJ	1 UJ	3.5 J	0.75 U
Chlorobenzene	1,700	0.4 U	0.42 U	0.53 U	0.38 U	0.4 U	0.4 U	0.53 UJ	0.58 UJ	0.4 U	0.41 U
Ethyl Benzene	5,500	0.28 U	0.3 U	99	9.4	4.3 J	39	300 DJ	29 J	38	18
m/p-Xylenes	1,200	0.58 U	0.62 U	75	25	8.3 J	75 J	350 DJ	32 J	160 J	44
o-Xylene	600	0.49 U	0.52 U	160	16	5.7	36	270 DJ	15 J	130	38
Styrene	NC	0.35 U	0.38 U	0.47 U	0.34 U	0.36 U	1.3 J	0.47 UJ	0.51 UJ	0.36 U	0.37 U
Bromoform	NC	0.34 U	0.36 U	0.45 U	0.32 U	0.34 U	0.34 U	0.45 UJ	0.49 UJ	0.34 U	0.35 U
Isopropylbenzene	2,300	0.42 U	0.45 U	23	2.9 J	13	47	230 J	2.7 J	180	68
1,1,2,2-Tetrachloroethane	600	0.59 U	0.64 U	0.79 U	0.57 U	0.6 U	0.61 U	0.79 UJ	0.87 UR	0.61 U	0.62 U
1,3-Dichlorobenzene	1,600	0.24 U	0.25 U	0.31 U	0.23 U	0.24 U	0.24 U	0.31 UJ	0.35 UR	0.24 U	0.25 U
1,4-Dichlorobenzene	8,500	0.39 U	0.42 U	0.52 U	0.38 U	0.4 U	0.4 U	0.52 UJ	0.58 UR	0.4 U	0.41 U
1,2-Dichlorobenzene	7,900	0.46 U	0.49 U	0.61 U	0.44 U	0.46 U	0.47 U	0.61 UJ	0.67 UR	0.47 U	0.48 U
1,2-Dibromo-3-Chloropropane	NC	0.76 U	0.82 U	1 U	0.74 U	0.77 U	0.78 U	1 UJ	1.1 UR	0.78 U	0.8 U
1,2,4-Trichlorobenzene	3,400	0.28 U	0.3 U	0.37 U	0.27 U	0.28 U	0.29 U	0.37 UJ	0.41 UR	0.29 U	0.29 U
Total Confident Conc. VOC	10,000	ND	ND	387	67.8	77.1	281.1	2,334.8	9,031.7	566.9	262.8

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-23	SB-23	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-25
Sample Interval (Feet bgs)		17 to 18	24 to 25	5 to 7	7 to 9	25 to 27	33 to 35	33 to 35	53 to 55	82 to 84	7 to 9
Sampling Date		4/27/04	4/27/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	08/30/04	4/26/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO							Duplicate			
Dichlorodifluoromethane	NC	2.1 UJ	1.9 UR	1.4 U	1.5 U	15 UJ	1.8 U	1.9 U	1.4 U	1.4 U	1.3 U
Chloromethane	NC	0.55 UJ	0.5 UR	0.38 U	0.4 U	4 UJ	0.49 U	0.5 U	0.38 U	0.38 U	0.36 U
Vinyl Chloride	200	0.39 UJ	0.36 UR	0.27 U	0.29 U	2.9 UJ	0.35 U	0.36 U	0.27 U	0.27 U	0.25 U
Bromomethane	NC	1.2 UJ	1.1 UR	0.81 U	0.86 U	8.6 UJ	1.1 U	1.1 U	0.81 U	0.82 U	0.76 U
Chloroethane	1,900	0.87 UJ	0.8 UR	0.6 U	0.64 U	6.4 UJ	0.78 U	0.8 U	0.6 U	0.61 U	0.56 U
Trichlorofluoromethane	NC	4.1 UJ	3.7 UR	2.8 U	3 U	30 UJ	3.7 U	3.7 U	2.8 U	2.9 U	2.6 U
1,1,2-Trichlorotrifluoroethane	6,000	0.76 UJ	0.7 UR	0.53 U	0.56 U	5.6 UJ	0.69 U	0.7 U	0.53 U	0.53 U	0.49 U
1,1-Dichloroethene	400	0.36 UJ	0.33 UR	0.25 U	0.26 U	2.6 UJ	0.32 U	0.33 U	0.25 U	0.25 U	0.23 U
Acetone	200	56 J	11 UR	8.6 U	9.1 U	91 UJ	11 U	11 U	8.6 U	8.7 U	8 U
Carbon Disulfide	2,700	0.17 UJ	0.15 UR	0.12 U	0.12 U	1.2 UJ	0.15 U	11	0.12 U	0.12 U	0.11 U
Methyl tert-butyl Ether	120	0.38 UJ	0.35 UR	0.26 U	0.28 U	2.8 UJ	0.34 U	0.35 U	0.26 U	0.27 U	0.25 U
Methyl Acetate	NC	2.1 UJ	1.9 UR	1.5 U	1.6 U	16 UJ	1.9 U	1.9 U	1.5 U	1.5 U	1.4 U
Methylene Chloride	100	1.1 UJ	1 UR	0.78 U	0.83 U	8.3 UJ	1 U	1 U	0.78 U	3.3 J	0.73 U
trans-1,2-Dichloroethene	300	0.62 UJ	0.56 UR	0.43 U	0.45 U	4.5 UJ	0.55 U	0.56 U	0.43 U	0.43 U	0.4 U
1,1-Dichloroethane	200	0.59 UJ	0.53 UR	0.41 U	0.43 U	4.3 UJ	0.53 U	0.53 U	0.41 U	0.41 U	0.38 U
Cyclohexane	NC	0.51 UJ	0.46 UR	0.35 U	0.37 U	3.7 UJ	0.46 U	0.46 U	0.35 U	0.35 U	0.33 U
2-Butanone	300	3.8 UJ	3.4 UR	2.6 U	2.8 U	28 UJ	3.4 U	3.4 U	2.6 U	2.6 U	2.4 U
Carbon Tetrachloride	600	0.5 UJ	0.45 UR	0.34 U	0.36 U	3.6 UJ	0.44 U	0.45 U	0.34 U	0.35 U	0.32 U
cis-1,2-Dichloroethene	NC	0.59 UJ	0.53 UR	0.4 U	0.43 U	4.3 UJ	0.53 U	0.53 U	0.4 U	0.41 U	0.38 U
Chloroform	300	0.4 UJ	0.36 UR	0.27 U	0.29 U	2.9 UJ	0.35 U	0.36 U	0.27 U	0.28 U	0.25 U
1,1,1-Trichloroethane	800	0.45 UJ	0.41 UR	0.31 U	0.33 U	3.3 UJ	0.4 U	0.41 U	0.31 U	0.32 U	0.29 U
Methylcyclohexane	NC	48 J	0.54 UR	0.41 U	0.43 U	4.3 UJ	0.53 U	0.54 U	0.41 U	0.23 U	6.4
Benzene	60	***91*** J	***170*** J	8.4	0.25 U	***70000*** D	***1600*** D	***1500*** D	6.6	3.6 U	31
1,2-Dichloroethane	200	5.1 UJ	4.7 UR	3.5 U	3.8 U	38 UJ	4.6 U	4.7 U	3.5 U	0.37 U	3.3 U
Trichloroethene	700	0.53 UJ	0.48 UR	0.37 U	0.39 U	3.9 UJ	0.48 U	0.48 U	0.37 U	0.39 U	0.34 U
1,2-Dichloropropane	NC	0.56 UJ	0.51 UR	0.39 U	0.41 U	4.1 UJ	0.5 U	0.51 U	0.39 U	0.39 U	0.36 U
Bromodichloromethane	NC	0.56 UJ	0.5 UR	0.38 U	0.41 U	4.1 UJ	0.5 U	0.5 U	0.38 U	2.8 U	0.36 U
4-Methyl-2-Pentanone	1,000	4 UJ	3.6 UR	2.8 U	2.9 U	29 UJ	3.6 U	3.6 U	2.8 U	0.3 U	2.6 U
Toluene	1,500	26 J	40 J	2.8 J	0.32 U	***230000*** DJ	350 DJ	210 J	3.5 J	0.3 U	13 J
t-1,3-Dichloropropene	NC	0.43 UJ	0.39 UR	0.29 U	0.31 U	3.1 UJ	0.38 U	0.39 U	0.29 U	0.23 U	0.28 U
cis-1,3-Dichloropropene	NC	0.32 UJ	0.29 UR	0.22 U	0.24 U	2.4 UJ	0.29 U	0.29 U	0.22 U	0.59 U	0.21 U
1,1,2-Trichloroethane	NC	0.84 UJ	0.77 UR	0.58 U	0.62 U	6.2 UJ	0.76 U	0.77 U	0.58 U	3.7 U	0.54 U
2-Hexanone	NC	5.3 UJ	4.8 UR	3.7 U	3.9 U	39 UJ	4.8 U	4.8 U	3.7 U	0.34 U	3.4 U
Dibromochloromethane	NA	0.48 UJ	0.44 UR	0.33 U	0.35 U	3.5 UJ	0.43 U	0.44 U	0.33 U	0.48 U	0.31 U
1,2-Dibromoethane	NC	0.69 UJ	0.63 UR	0.48 U	0.51 U	5.1 UJ	0.62 U	0.63 U	0.48 U	0.74 U	0.45 U
Tetrachloroethene	1,400	1.1 UJ	0.96 UR	0.73 U	0.77 U	7.7 UJ	0.95 U	0.96 U	0.73 U	0.41 U	0.68 U
Chlorobenzene	1,700	0.59 UJ	0.53 UR	0.4 U	0.43 U	920 J	0.53 U	0.53 U	0.4 U	0.29 U	0.38 U
Ethyl Benzene	5,500	790 DJ	490 D	0.29 U	0.3 U	***130000*** D	1800 D	1500 D	0.29 U	0.6 U	13
m/p-Xylenes	1,200	930 D	530 J	0.59 U	0.63 U	***310000*** D	***2900*** D	***2700*** D	4.7 J	0.5 U	64
o-Xylene	600	***1300*** DJ	500 D	0.5 U	0.53 U	***120000*** D	***1500*** D	***1500*** D	0.5 U	0.36 U	53
Styrene	NC	0.52 UJ	14 J	0.36 U	0.38 U	3.8 UJ	0.47 U	0.47 U	0.36 U	0.35 U	0.34 U
Bromoform	NC	0.5 UJ	0.45 UR	0.34 U	0.36 U	3.6 UJ	0.45 U	0.45 U	0.34 U	0.43 U	0.32 U
Isopropylbenzene	2,300	760 D	10 J	0.43 U	0.45 U	2100 J	82	150	0.43 U	0.62 U	23
1,1,2,2-Tetrachloroethane	600	0.88 U	0.8 UR	0.61 U	0.65 U	6.5 UJ	0.79 U	0.8 U	0.61 U	0.25 U	0.57 U
1,3-Dichlorobenzene	1,600	0.35 U	0.32 UR	0.24 U	0.26 U	2.6 UJ	0.31 U	0.32 U	0.24 U	0.41 U	0.23 U
1,4-Dichlorobenzene	8,500	0.58 U	0.53 UR	0.4 U	0.43 U	4.3 UJ	0.52 U	0.53 U	0.4 U	0.48 U	0.38 U
1,2-Dichlorobenzene	7,900	0.68 U	0.62 UR	0.47 U	0.5 U	5 UJ	0.61 U	0.62 U	0.47 U	0.79 U	0.44 U
1,2-Dibromo-3-Chloropropane	NC	1.1 U	1 UR	0.78 U	0.83 U	8.3 UJ	1 U	1 U	0.78 U	0.29 U	0.73 U
1,2,4-Trichlorobenzene	3,400	0.42 U	0.38 UR	0.29 U	0.3 U	3 UJ	0.37 U	0.38 U	0.29 U	3.3	0.27 U
Total Confident Conc. VOC	10,000	4,001	1,754	11.2	ND	***863,020***	8,232	7,571	14.8	3.3	203.4

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-25	SB-25	SB-25	SB-26	SB-26	SB-26	SB-27	SB-27	SB-27	SB-27
Sample Interval (Feet bgs)		20 to 22	32 to 33	33 to 34	6.5 to 7	31 to 33	35 to 37	5 to 5.5	5.9 to 6.3	40.9 to 41.3	44.5 to 45
Sampling Date		4/26/04	4/26/04	4/26/04	07/08/04	07/26/04	07/27/04	07/09/04	07/22/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 U	1.6 U	2 UJ	1.5 U	15 U	1.9 U	1.4 UJ	1.6 U	1.5 U	1.8 R
Chloromethane	NC	0.37 U	0.43 U	0.53 UJ	0.4 U	3.9 U	0.5 U	0.38 UJ	0.42 U	0.39 U	0.49 R
Vinyl Chloride	200	0.26 U	0.31 U	0.38 UJ	0.29 U	2.8 U	0.36 U	0.27 UJ	0.3 U	0.28 U	0.35 R
Bromomethane	NC	0.8 U	0.92 U	1.1 UJ	0.86 U	8.4 U	1.1 U	0.8 UJ	0.91 U	0.84 U	1.1 R
Chloroethane	1,900	0.59 U	0.68 U	0.85 UJ	0.64 U	6.2 U	0.8 U	0.6 UJ	0.67 U	0.62 U	0.78 R
Trichlorofluoromethane	NC	2.8 U	3.2 U	4 UJ	3 U	29 U	3.7 U	2.8 UJ	3.2 U	2.9 U	3.7 R
1,1,2-Trichlorotrifluoroethane	6,000	0.52 U	0.6 U	0.74 UJ	0.56 U	5.5 U	0.7 U	0.52 UJ	0.59 U	0.55 U	0.69 R
1,1-Dichloroethene	400	0.24 U	0.28 U	0.35 UJ	0.26 U	2.6 U	0.33 U	0.24 UJ	0.28 U	0.26 U	0.32 R
Acetone	200	8.4 U	9.7 U	160 J	9.1 U	89 U	55 J	53	25 J	8.9 U	11 R
Carbon Disulfide	2,700	0.11 U	0.13 U	0.16 UJ	0.12 U	1.2 U	16 J	0.11 UJ	13 J	6 J	0.15 R
Methyl tert-butyl Ether	120	0.26 U	0.3 U	0.37 UJ	0.28 U	2.7 U	0.35 U	0.26 UJ	0.29 U	0.27 U	0.34 R
Methyl Acetate	NC	1.4 U	1.7 U	2.1 UJ	1.6 U	15 U	1.9 U	1.4 UJ	1.6 U	1.5 U	4.8 J
Methylene Chloride	100	0.76 U	0.88 U	1.1 UJ	3.5 J	8.1 U	1 U	6.6 J	4.6 J	5.1 J	1 R
trans-1,2-Dichloroethene	300	0.42 U	0.48 U	0.6 UJ	0.45 U	4.4 U	0.56 U	0.42 UJ	0.48 U	0.44 U	0.55 R
1,1-Dichloroethane	200	0.4 U	0.46 U	0.57 UJ	0.43 U	4.2 U	0.53 U	0.4 UJ	0.45 U	0.42 U	0.53 R
Cyclohexane	NC	0.34 U	0.4 U	0.49 UJ	0.37 U	3.6 U	0.46 U	0.35 UJ	0.39 U	0.36 U	0.46 R
2-Butanone	300	2.6 U	3 U	3.7 UJ	2.8 U	27 U	3.4 U	2.6 UJ	2.9 U	2.7 U	3.4 R
Carbon Tetrachloride	600	0.33 U	0.39 U	0.48 UJ	0.36 U	3.5 U	0.45 U	0.34 UJ	0.38 U	0.35 U	0.44 R
cis-1,2-Dichloroethene	NC	0.4 U	0.46 U	0.57 UJ	0.43 U	4.2 U	0.53 U	0.4 UJ	0.45 U	0.42 U	0.53 R
Chloroform	300	0.27 U	0.31 U	0.38 UJ	0.29 U	2.8 U	0.36 U	0.27 UJ	0.3 U	0.28 U	0.35 R
1,1,1-Trichloroethane	800	0.3 U	0.35 U	0.44 UJ	0.33 U	3.2 U	0.41 U	0.31 UJ	0.35 U	0.32 U	0.4 R
Methylcyclohexane	NC	0.4 U	9.6	21 J	0.43 U	4.2 U	0.54 U	0.4 UJ	0.46 U	0.42 U	0.53 R
Benzene	60	***6000*** JD	***300*** D	***5900*** D	0.25 U	***540***	0.31 U	0.23 UJ	0.26 U	14	***2700*** J
1,2-Dichloroethane	200	3.5 U	4 U	5 UJ	3.8 U	37 U	4.7 U	3.5 UJ	3.9 U	3.7 U	4.6 R
Trichloroethene	700	0.36 U	0.42 U	0.52 UJ	0.39 U	3.8 U	0.48 U	0.36 UJ	0.41 U	0.38 U	0.48 R
1,2-Dichloropropane	NC	0.38 U	0.44 U	0.54 UJ	0.41 U	4 U	0.51 U	0.38 UJ	0.43 U	0.4 U	0.5 R
Bromodichloromethane	NC	0.37 U	0.43 U	0.54 UJ	0.41 U	4 U	0.5 U	0.38 UJ	0.43 U	0.4 U	0.5 R
4-Methyl-2-Pentanone	1,000	2.7 U	3.1 U	3.9 UJ	2.9 U	29 U	3.6 U	2.7 UJ	3.1 U	2.9 U	3.6 R
Toluene	1,500	64 J	38 J	810 DJ	0.32 U	120	0.39 U	0.29 UJ	0.33 U	4.5 J	830 J
t-1,3-Dichloropropene	NC	0.29 U	0.33 U	0.41 UJ	0.31 U	3 U	0.39 U	0.29 UJ	0.33 U	0.3 U	0.38 R
cis-1,3-Dichloropropene	NC	0.22 U	0.25 U	0.31 UJ	0.24 U	2.3 U	0.29 U	0.22 UJ	0.25 U	0.23 U	0.29 R
1,1,2-Trichloroethane	NC	0.57 U	0.66 U	0.82 UJ	0.62 U	6 U	0.77 U	0.57 UJ	0.65 U	0.6 U	0.76 R
2-Hexanone	NC	3.6 U	4.2 U	5.2 UJ	3.9 U	38 U	4.8 U	3.6 UJ	4.1 U	3.8 U	4.8 R
Dibromochloromethane	NA	0.33 U	0.38 U	0.47 UJ	0.35 U	3.5 U	0.44 U	0.33 UJ	0.37 U	0.35 U	0.43 R
1,2-Dibromoethane	NC	0.47 U	0.54 U	0.67 UJ	0.51 U	5 U	0.63 U	0.47 UJ	0.53 U	0.5 U	0.62 R
Tetrachloroethene	1,400	0.71 U	0.82 U	1 UJ	0.77 U	7.6 U	0.96 U	6.2 J	7.9	11	0.95 R
Chlorobenzene	1,700	0.4 U	0.46 U	0.57 UJ	0.43 U	4.2 U	0.53 U	0.4 UJ	0.45 U	0.42 U	0.53 R
Ethyl Benzene	5,500	***6300*** JD	260 D	***9400*** D	0.3 U	840	0.38 U	0.28 UJ	1.8 J	6.4	1500 J
m/p-Xylenes	1,200	***8600*** JD	52	***14000*** D	0.63 U	390	0.78 U	0.58 UJ	1.8 J	12	***3200*** J
o-Xylene	600	***5800*** JD	160	***8800*** D	0.53 U	450	0.65 U	0.49 UJ	1.4 J	4.9 J	***1100*** J
Styrene	NC	0.35 U	0.41 U	0.5 UJ	0.38 U	3.7 U	0.47 U	0.36 UJ	0.4 U	0.37 U	0.47 R
Bromoform	NC	0.34 U	0.39 U	0.48 UJ	0.36 U	3.6 U	0.45 U	0.34 UJ	0.38 U	0.36 U	0.45 R
Isopropylbenzene	2,300	71	160	1400 D	0.45 U	200	0.56 U	0.42 UJ	0.47 U	0.44 U	30 J
1,1,2,2-Tetrachloroethane	600	0.59 U	0.69 U	0.85 UJ	0.65 U	6.3 U	0.8 U	0.6 UJ	0.68 U	0.63 U	0.79 R
1,3-Dichlorobenzene	1,600	0.24 U	0.27 U	0.34 UJ	0.26 U	2.5 U	0.32 U	0.24 UJ	0.27 U	0.25 U	0.31 R
1,4-Dichlorobenzene	8,500	0.39 U	0.46 U	0.57 UJ	0.43 U	4.2 U	0.53 U	0.4 UJ	0.45 U	0.42 U	0.52 R
1,2-Dichlorobenzene	7,900	0.46 U	0.53 U	0.66 UJ	0.5 U	4.9 U	0.62 U	0.46 UJ	0.52 U	0.49 U	0.61 R
1,2-Dibromo-3-Chloropropane	NC	0.76 U	0.88 U	1.1 UJ	0.83 U	8.1 U	1 U	0.77 UJ	0.87 U	0.81 U	1 R
1,2,4-Trichlorobenzene	3,400	0.28 U	0.32 U	0.4 UJ	0.3 U	3 U	0.38 U	0.28 UJ	0.32 U	0.3 U	0.37 R
Total Confident Conc. VOC	10,000	***26,835***	979.6	***40,491***	3.5	2,540	71	65.8	55.5	58.8	9,364.8

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-47	SB-47	SB-47	SB-48	SB-48	SB-48	SB-49	SB-49	SB-49	SB-49
Sample Interval (Feet bgs)		7 to 9	13 to 15	17 to 19	7 to 9	15 to 16	19 to 21	10 to 12	14 to 15	17 to 18	23 to 24
Sampling Date		5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	4/28/04	4/28/04	4/28/04	4/28/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 U	1.5 U	1.8 U	1.5 U	58 U	2 U	7.5 U	1.5 R	7.4 R	1.9 U
Chloromethane	NC	0.37 U	0.4 U	0.48 U	0.4 U	120 U	0.53 U	2 U	0.41 R	2 R	0.52 U
Vinyl Chloride	200	0.26 U	0.28 U	0.34 U	0.28 U	46 U	0.38 U	1.4 U	0.29 R	1.4 R	0.37 U
Bromomethane	NC	0.79 U	0.85 U	1 U	0.85 U	140 U	1.1 U	4.3 U	0.87 R	4.2 R	1.1 U
Chloroethane	1,900	0.58 U	0.63 U	0.76 U	0.63 U	150 U	0.85 U	3.2 U	0.65 R	3.1 R	0.82 U
Trichlorofluoromethane	NC	2.7 U	3 U	3.6 U	3 U	100 U	4 U	15 U	3 R	15 R	3.8 U
1,1,2-Trichlorotrifluoroethane	6,000	0.51 U	0.55 U	0.67 U	0.55 U	120 U	0.74 U	2.8 U	0.57 R	2.7 R	0.72 U
1,1-Dichloroethene	400	0.24 U	0.26 U	0.31 U	0.26 U	56 U	0.35 U	1.3 U	0.27 R	1.3 R	0.34 U
Acetone	200	8.3 U	9 U	89 J	50 J	570 U	110 J	120 J	71 J	44 R	130
Carbon Disulfide	2,700	0.11 U	0.12 U	0.15 U	0.12 U	68 U	0.16 U	0.62 U	0.12 R	0.6 R	4.4 J
Methyl tert-butyl Ether	120	0.25 U	0.28 U	14	0.28 U	62 U	0.37 U	1.4 U	0.28 R	1.4 R	0.36 U
Methyl Acetate	NC	1.4 U	1.5 U	1.8 U	1.5 U	140 U	2.1 U	7.8 U	1.6 R	7.6 R	2 U
Methylene Chloride	100	0.76 U	0.82 U	0.99 U	0.82 U	110 U	1.1 U	4.1 U	0.84 R	25 J	1.1 U
trans-1,2-Dichloroethene	300	0.41 U	0.45 U	0.54 U	0.45 U	89 U	0.6 U	2.3 U	0.46 R	2.2 R	0.58 U
1,1-Dichloroethane	200	0.39 U	0.43 U	0.51 U	0.43 U	37 U	0.57 U	2.2 U	0.44 R	2.1 R	0.55 U
Cyclohexane	NC	0.34 U	0.37 U	0.44 U	0.37 U	64 U	0.49 U	1.9 U	0.38 R	650 J	0.48 U
2-Butanone	300	2.5 U	2.7 U	3.3 U	2.7 U	490 U	3.7 U	14 U	2.8 R	14 R	22 J
Carbon Tetrachloride	600	0.33 U	0.36 U	0.43 U	0.36 U	82 U	0.48 U	1.8 U	0.37 R	1.8 U	0.47 U
cis-1,2-Dichloroethene	NC	0.39 U	0.42 U	0.51 U	0.42 U	130 U	0.57 U	2.1 U	0.43 R	2.1 U	0.55 U
Chloroform	300	0.26 U	0.29 U	0.34 U	0.29 U	100 U	0.38 U	1.4 U	0.29 R	1.4 R	0.37 U
1,1,1-Trichloroethane	800	0.3 U	0.33 U	0.39 U	0.33 U	71 U	0.44 U	1.7 U	0.33 R	1.6 R	0.42 U
Methylcyclohexane	NC	0.39 U	0.43 U	0.51 U	0.43 U	100 U	0.57 U	190 J	0.44 R	430 J	0.55 U
Benzene	60	0.22 U	0.24 U	***1700*** D	0.24 U	***3400***	***5300*** D	***230***	***1300*** J	***31000*** D	***200*** D
1,2-Dichloroethane	200	3.4 U	3.7 U	4.5 U	3.7 U	56 U	5 U	19 U	3.8 R	18 U	4.8 U
Trichloroethene	700	0.36 U	0.39 U	0.46 U	0.39 U	120 U	0.52 U	2 U	0.4 R	1.9 U	0.5 U
1,2-Dichloropropane	NC	0.37 U	0.4 U	0.49 U	0.4 U	55 U	0.54 U	2 U	0.41 R	2 U	0.52 U
Bromodichloromethane	NC	0.37 U	0.4 U	0.48 U	0.4 U	60 U	0.54 U	2 U	0.41 R	2 U	0.52 U
4-Methyl-2-Pentanone	1,000	2.7 U	2.9 U	3.5 U	2.9 U	230 U	3.9 U	15 U	3 R	14 U	3.8 U
Toluene	1,500	0.29 U	0.31 U	0.38 U	0.31 U	***8500*** J	220	***6400*** DJ	***11000*** DJ	***99000*** DJ	12
t-1,3-Dichloropropene	NC	0.28 U	0.31 U	0.37 U	0.31 U	74 U	0.41 U	1.6 U	0.32 R	1.5 U	0.4 U
cis-1,3-Dichloropropene	NC	0.22 U	0.23 U	0.28 U	0.23 U	26 U	0.31 U	1.2 U	0.24 R	1.2 U	0.3 U
1,1,2-Trichloroethane	NC	0.56 U	0.61 U	0.73 U	0.61 U	90 U	0.82 U	3.1 U	0.62 R	3 U	0.79 U
2-Hexanone	NC	3.6 U	3.9 U	4.6 U	3.9 U	110 U	5.2 U	19 U	3.9 R	19 U	5 U
Dibromochloromethane	NA	0.32 U	0.35 U	0.42 U	0.35 U	66 U	0.47 U	1.8 U	0.36 R	1.7 U	0.45 U
1,2-Dibromoethane	NC	0.46 U	0.5 U	0.6 U	0.5 U	110 U	0.67 U	2.5 U	0.51 R	2.5 U	0.65 U
Tetrachloroethene	1,400	0.71 U	0.77 U	0.92 U	0.77 U	57 U	1 U	3.9 U	0.78 R	3.8 U	0.99 U
Chlorobenzene	1,700	0.39 U	0.42 U	0.51 U	0.42 U	64 U	0.57 U	2.1 U	0.43 R	2.1 U	0.55 U
Ethyl Benzene	5,500	0.28 U	0.3 U	0.36 U	0.3 U	4900	2200 D	***45000*** J	5500 J	***31000*** D	3.2 J
m/p-Xylenes	1,200	0.57 U	0.62 U	0.74 U	0.62 U	***12000***	***3000*** D	***130000*** J	***12000*** J	***100000*** J	9.3 J
o-Xylene	600	0.48 U	0.52 U	0.63 U	0.52 U	***5000***	***1600*** D	***61000*** J	***4700*** J	***38000*** D	12
Styrene	NC	0.35 U	0.38 U	0.45 U	0.38 U	1100	0.5 U	1.9 U	11 J	1.9 U	0.49 U
Bromoform	NC	0.33 U	0.36 U	0.43 U	0.36 U	44 U	0.48 U	1.8 U	0.37 R	1.8 U	0.47 U
Isopropylbenzene	2,300	0.41 U	0.45 U	0.54 U	0.45 U	480 J	14	920 J	28 J	340 J	0.58 U
1,1,2,2-Tetrachloroethane	600	0.59 U	0.64 U	0.77 U	0.64 U	86 U	0.85 U	3.2 U	0.65 U	3.1 U	0.83 U
1,3-Dichlorobenzene	1,600	0.23 U	0.25 U	0.31 U	0.25 U	65 U	0.34 U	1.3 U	0.26 U	1.3 U	0.33 U
1,4-Dichlorobenzene	8,500	0.39 U	0.42 U	0.51 U	0.42 U	67 U	0.57 U	2.1 U	0.43 U	2.1 U	0.55 U
1,2-Dichlorobenzene	7,900	0.45 U	0.49 U	0.59 U	0.49 U	64 U	0.66 U	2.5 U	0.5 U	2.4 U	0.64 U
1,2-Dibromo-3-Chloropropane	NC	0.75 U	0.82 U	0.98 U	0.82 U	160 U	1.1 U	4.1 U	0.84 U	4 U	1.1 U
1,2,4-Trichlorobenzene	3,400	0.28 U	0.3 U	0.36 U	0.3 U	50 U	0.4 U	1.5 U	0.31 U	1.5 U	0.39 U
Total Confident Conc. VOC	10,000	ND	ND	1,803	50	***35,380***	***12,444***	***243,860***	***34,610***	***300,015***	392.9

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-50	SB-50	SB-50	SB-50	SB-51	SB-51	SB-51	SB-51	SB-52	SB-52
Sample Interval (Feet bgs)		2 to 3	8 to 10	21 to 23	26 to 27	6 to 7	14 to 15	21 to 22	32 to 33	11 to 13	27 to 29
Sampling Date		4/25/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	5/1/04	5/1/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 U	1.4 U	1.4 U	1.9 U	1.5 U	3 U	7.5 R	1.8 U	1.7 U	250 U
Chloromethane	NC	0.38 U	0.38 U	0.38 U	0.51 U	0.4 U	0.8 U	2 R	0.47 U	0.45 U	500 U
Vinyl Chloride	200	0.27 U	0.27 U	0.27 U	0.36 U	0.28 U	0.57 U	1.4 R	0.34 U	0.32 U	200 U
Bromomethane	NC	0.8 U	0.81 U	0.82 U	1.1 U	0.85 U	1.7 U	4.3 R	1 U	0.97 U	580 U
Chloroethane	1,900	0.6 U	0.6 U	0.61 U	0.81 U	0.63 U	1.3 U	3.2 R	0.75 U	0.72 U	650 U
Trichlorofluoromethane	NC	2.8 U	2.8 U	2.9 U	3.8 U	3 U	5.9 U	15 R	3.5 U	3.4 U	420 U
1,1,2-Trichlorotrifluoroethane	6,000	0.52 U	0.53 U	0.53 U	0.71 U	0.55 U	1.1 U	2.8 R	0.66 U	0.63 U	510 U
1,1-Dichloroethene	400	0.24 U	0.25 U	0.25 U	0.33 U	0.26 U	0.52 U	1.3 R	0.31 U	0.29 U	240 UJ
Acetone	200	8.5 U	46 J	48	110	***330***	18 U	45 R	100	10 U	2400 U
Carbon Disulfide	2,700	0.11 U	6.9 J	0.12 U	8.4 J	16 J	0.24 U	0.62 R	6.5 J	0.14 U	290 U
Methyl tert-butyl Ether	120	0.26 U	28	0.27 U	0.35 U	0.28 U	0.55 U	1.4 R	0.33 U	0.31 U	260 U
Methyl Acetate	NC	1.4 U	1.5 U	1.5 U	2 U	1.5 U	3.1 U	7.8 R	1.8 U	1.7 U	610 U
Methylene Chloride	100	0.77 U	0.78 U	0.79 U	1 U	1.3 J	1.6 U	4.1 R	1.9 J	0.93 U	460 U
trans-1,2-Dichloroethene	300	0.42 U	0.43 U	0.43 U	0.57 U	0.45 U	0.89 U	2.3 R	0.53 U	0.51 U	380 U
1,1-Dichloroethane	200	0.4 U	0.41 U	0.41 U	0.54 U	0.43 U	0.85 U	2.2 R	0.5 U	0.48 U	160 U
Cyclohexane	NC	0.35 U	0.35 U	0.35 U	3 J	13 J	300 J	88 J	0.44 U	13	270 U
2-Butanone	300	2.6 U	2.6 U	7.5 J	19 J	80	5.5 U	14 R	17 J	3.1 U	2100 U
Carbon Tetrachloride	600	0.34 U	0.34 U	0.35 U	0.46 U	0.36 U	0.72 U	1.8 R	0.43 U	0.41 U	350 U
cis-1,2-Dichloroethene	NC	0.4 U	0.4 U	0.41 U	0.54 U	0.42 U	0.85 U	2.1 R	0.5 U	0.48 U	570 U
Chloroform	300	0.27 U	0.27 U	0.28 U	0.36 U	0.29 U	0.57 U	1.4 R	0.34 U	0.32 U	420 U
1,1,1-Trichloroethane	800	0.31 U	0.31 U	0.32 U	0.42 U	0.33 U	0.65 U	1.7 R	0.39 U	0.37 U	300 U
Methylcyclohexane	NC	0.4 U	0.41 U	0.41 U	6 J	21 J	220 J	160 J	0.51 U	0.49 U	420 U
Benzene	60	25	5 J	17	***1400*** D	***440*** D	***48000*** D	***350000*** D	***270***	***84*** J	***26000*** J
1,2-Dichloroethane	200	3.5 U	3.5 U	3.6 U	4.7 U	3.7 U	7.4 U	19 R	4.4 U	4.2 U	240 U
Trichloroethene	700	0.36 U	0.37 U	0.37 U	0.49 U	0.39 U	0.77 U	2 R	0.46 U	0.44 U	490 U
1,2-Dichloropropane	NC	0.38 U	0.39 U	0.39 U	0.52 U	0.4 U	0.81 U	2 R	0.48 U	0.46 U	230 U
Bromodichloromethane	NC	0.38 U	0.38 U	0.39 U	0.51 U	0.4 U	0.8 U	2 R	0.48 U	0.46 U	260 U
4-Methyl-2-Pentanone	1,000	2.7 U	2.8 U	2.8 U	3.7 U	2.9 U	5.8 U	15 R	3.4 U	3.3 U	970 U
Toluene	1,500	5.9 J	0.3 U	3.8 J	12	170	***17000*** DJ	***640000*** DJ	15	4.8 J	***21000*** J
t-1,3-Dichloropropene	NC	0.29 U	0.29 U	0.3 U	0.39 U	0.31 U	0.62 U	1.6 R	0.37 U	0.35 U	310 U
cis-1,3-Dichloropropene	NC	0.22 U	0.22 U	0.23 U	0.3 U	0.23 U	0.47 U	1.2 R	0.28 U	0.27 U	110 U
1,1,2-Trichloroethane	NC	0.57 U	0.58 U	0.59 U	0.78 U	0.61 U	1.2 U	3.1 R	0.72 U	0.69 U	380 U
2-Hexanone	NC	3.6 U	3.7 U	3.7 U	4.9 U	3.9 U	7.7 U	19 R	4.6 U	4.4 U	480 U
Dibromochloromethane	NA	0.33 U	0.33 U	0.34 U	0.45 U	0.35 U	0.7 U	1.8 R	0.42 U	0.4 U	280 U
1,2-Dibromoethane	NC	0.47 U	0.48 U	0.48 U	0.64 U	0.5 U	1 U	2.5 R	0.59 U	0.57 U	460 U
Tetrachloroethene	1,400	0.72 U	0.73 U	0.74 U	0.98 U	0.77 U	1.5 U	3.9 R	0.91 U	0.87 U	240 U
Chlorobenzene	1,700	0.4 U	0.4 U	0.41 U	0.54 U	0.42 U	0.85 U	2.1 R	0.5 U	0.48 U	270 U
Ethyl Benzene	5,500	0.28 U	0.29 U	12	88	210	***110000*** D	***480000*** D	9.3	0.34 U	***33000***
m/p-Xylenes	1,200	3.1 J	5.3 J	34 J	75 J	190 J	***170000*** D	***950000*** D	18 J	14	***78000***
o-Xylene	600	0.49 U	3.7 J	18	89	130	***82000*** D	***370000*** D	11	7.4	***34000***
Styrene	NC	0.36 U	0.36 U	0.36 U	0.48 U	5.3 J	0.75 U	1.9 R	0.45 U	0.43 U	250 U
Bromoform	NC	0.34 U	0.34 U	0.35 U	0.46 U	0.36 U	0.72 U	1.8 R	0.43 U	0.41 U	190 U
Isopropylbenzene	2,300	0.42 U	4.9 J	11	14	150 DJ	***20000*** D	***61000*** D	0.53 U	10	***4900***
1,1,2,2-Tetrachloroethane	600	0.6 U	0.61 U	0.62 U	0.81 U	0.64 UJ	1.3 U	3.2 R	0.76 U	0.72 U	360 U
1,3-Dichlorobenzene	1,600	0.24 U	0.24 U	0.25 U	0.32 U	0.25 UJ	0.51 U	1.3 R	0.3 U	0.29 U	270 U
1,4-Dichlorobenzene	8,500	0.4 U	0.4 U	0.41 U	0.54 U	0.42 UJ	0.85 U	2.1 R	0.5 U	0.48 U	280 U
1,2-Dichlorobenzene	7,900	0.46 U	0.47 U	0.48 U	0.63 U	0.49 UJ	0.99 U	2.5 R	0.58 U	0.56 U	270 U
1,2-Dibromo-3-Chloropropane	NC	0.77 U	0.78 U	0.79 U	1 U	0.82 UJ	1.6 U	4.1 R	0.97 U	0.93 U	690 U
1,2,4-Trichlorobenzene	3,400	0.28 U	0.29 U	0.29 U	0.38 U	0.3 UJ	0.6 U	1.5 R	0.36 U	0.34 U	210 U
Total Confident Conc. VOC	10,000	34	99.8	151.3	1,824.4	1,756.6	***447,520***	***2,851,248***	448.7	133.2	***196,900***

Summary of Volatile Organic Compounds in Subsurface Soil -Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-17

Sample Location		SB-52							
Sample Interval (Feet bgs)		33 to 35							
Sampling Date		5/1/04							
Units		ug/Kg							
Volatile Organic Compounds (ug/Kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	1.9 U	61	0	0%	0	0%	< 1.2	< 250
Chloromethane	NC	0.51 U	61	0	0%	0	0%	< 0.33	< 500
Vinyl Chloride	200	0.36 U	61	0	0%	0	0%	< 0.24	< 200
Bromomethane	NC	1.1 U	61	0	0%	0	0%	< 0.71	< 580
Chloroethane	1,900	0.81 U	61	0	0%	0	0%	< 0.52	< 650
Trichlorofluoromethane	NC	3.8 U	61	0	0%	0	0%	< 2.5	< 420
1,1,2-Trichlorotrifluoroethane	6,000	0.71 U	61	0	0%	0	0%	< 0.46	< 510
1,1-Dichloroethene	400	0.33 U	61	0	0%	0	0%	< 0.22	< 240
Acetone	200	99	61	22	36%	1	2%	< 7.5	< 2,400
Carbon Disulfide	2,700	54	61	12	20%	0	0%	< 0.1	< 290
Methyl tert-butyl Ether	120	0.35 U	61	3	5%	0	0%	< 0.23	< 260
Methyl Acetate	NC	2 U	61	1	2%	0	0%	< 1.3	< 610
Methylene Chloride	100	1 U	61	8	13%	0	0%	< 0.68	< 460
trans-1,2-Dichloroethene	300	0.57 U	61	0	0%	0	0%	< 0.37	< 380
1,1-Dichloroethane	200	0.54 U	61	0	0%	0	0%	< 0.35	< 160
Cyclohexane	NC	0.47 U	61	8	13%	0	0%	< 0.3	650
2-Butanone	300	3.5 U	61	7	11%	0	0%	< 2.3	< 2,100
Carbon Tetrachloride	600	0.46 U	61	0	0%	0	0%	< 0.3	< 350
cis-1,2-Dichloroethene	NC	0.54 U	61	0	0%	0	0%	< 0.35	< 570
Chloroform	300	0.36 U	61	0	0%	0	0%	< 0.24	< 420
1,1,1-Trichloroethane	800	0.42 U	61	0	0%	0	0%	< 0.27	< 300
Methylcyclohexane	NC	0.55 U	61	14	23%	0	0%	< 0.23	430
Benzene	60	***460*** D	61	42	69%	29	48%	< 0.2	350,000
1,2-Dichloroethane	200	4.7 U	61	0	0%	0	0%	< 0.37	< 240
Trichloroethene	700	0.49 U	61	0	0%	0	0%	< 0.32	< 490
1,2-Dichloropropane	NC	0.52 U	61	0	0%	0	0%	< 0.34	< 230
Bromodichloromethane	NC	0.51 U	61	0	0%	0	0%	< 0.33	< 260
4-Methyl-2-Pentanone	1,000	3.7 U	61	0	0%	0	0%	< 0.3	< 970
Toluene	1,500	4.7 J	61	38	62%	9	15%	< 0.26	640,000
t-1,3-Dichloropropene	NC	0.39 U	61	0	0%	0	0%	< 0.23	< 310
cis-1,3-Dichloropropene	NC	0.3 U	61	0	0%	0	0%	< 0.19	< 110
1,1,2-Trichloroethane	NC	0.78 U	61	0	0%	0	0%	< 0.51	< 380
2-Hexanone	NC	4.9 U	61	0	0%	0	0%	< 0.34	< 480
Dibromochloromethane	NA	0.45 U	61	0	0%	0	0%	< 0.29	< 280
1,2-Dibromoethane	NC	0.64 U	61	0	0%	0	0%	< 0.42	< 460
Tetrachloroethene	1,400	0.98 U	61	4	7%	0	0%	< 0.41	< 240
Chlorobenzene	1,700	0.54 U	61	1	2%	0	0%	< 0.29	920
Ethyl Benzene	5,500	4.5 J	61	37	61%	8	13%	< 0.25	480,000
m/p-Xylenes	1,200	17	61	40	66%	15	25%	< 0.5	950,000
o-Xylene	600	10	61	39	64%	15	25%	< 0.36	370,000
Styrene	NC	0.48 U	61	5	8%	0	0%	< 0.31	1,100
Bromoform	NC	0.46 U	61	0	0%	0	0%	< 0.3	< 190
Isopropylbenzene	2,300	0.57 U	61	33	54%	3	5%	< 0.37	61,000
1,1,2,2-Tetrachloroethane	600	0.81 U	61	0	0%	0	0%	< 0.25	< 360
1,3-Dichlorobenzene	1,600	0.32 U	61	0	0%	0	0%	< 0.21	< 270
1,4-Dichlorobenzene	8,500	0.54 U	61	0	0%	0	0%	< 0.35	< 280
1,2-Dichlorobenzene	7,900	0.63 U	61	0	0%	0	0%	< 0.41	< 270
1,2-Dibromo-3-Chloropropane	NC	1 U	61	0	0%	0	0%	< 0.29	< 690
1,2,4-Trichlorobenzene	3,400	0.38 U	61	1	2%	0	0%	< 0.25	< 210
Total Confident Conc. VOC	10,000	649.2							

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		TP-3	TP-6	SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		7.5 to 7.5	9.5 to 9.5	5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	41 to 43	49 to 51
Sampling Date		5/1/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	37 U	36 U	370 U	41 U	72 U	78 U	44 U	36 U	37 U	39 U
Phenol	30 or MDL	16 U	16 U	160 U	18 U	***930***	33 U	19 U	15 U	16 U	17 U
bis(2-Chloroethyl)ether	NC	19 U	18 U	180 U	21 U	36 U	39 U	22 U	18 U	19 U	20 U
2-Chlorophenol	800	16 U	16 U	160 U	18 U	32 U	34 U	19 U	16 U	16 U	17 U
2-Methylphenol	100 or MDL	24 U	24 U	240 U	27 U	***420*** J	50 U	28 U	23 U	24 U	25 U
2,2-oxybis(1-Chloropropane)	NC	20 U	20 U	200 U	23 U	40 U	43 U	24 U	20 U	21 U	21 U
Acetophenone	NC	20 U	19 U	200 U	22 U	38 U	42 U	23 U	19 U	20 U	21 U
3+4-Methylphenols	900	17 U	17 U	170 U	19 U	710 J	37 U	20 U	17 U	18 U	18 U
N-Nitroso-di-n-propylamine	NC	17 U	16 U	170 U	19 U	32 U	35 U	20 U	16 U	17 U	18 U
Hexachloroethane	NC	18 U	18 U	180 U	20 U	35 U	38 U	21 U	18 U	18 U	19 U
Nitrobenzene	200 or MDL	19 U	19 U	190 U	21 U	37 U	40 U	23 U	19 U	19 U	20 U
Isophorone	4,400	14 U	14 U	140 U	16 U	27 U	30 U	17 U	14 U	14 U	15 U
2-Nitrophenol	330 or MDL	15 U	15 U	150 U	17 U	30 U	32 U	18 U	15 U	15 U	16 U
2,4-Dimethylphenol	NC	180 J	20 U	200 U	23 U	380 J	43 U	24 U	20 U	21 U	21 U
bis(2-Chloroethoxy)methane	NC	17 U	17 U	170 U	19 U	34 U	36 U	20 U	17 U	17 U	18 U
2,4-Dichlorophenol	400	13 U	13 U	130 U	15 U	26 U	28 U	16 U	13 U	13 U	14 U
Naphthalene	13,000	860	430	***120000*** D	3400	4100	110 J	83 J	1000	88 J	760
4-Chloroaniline	220 or MDL	140 U	140 U	1400 U	160 U	270 U	290 U	160 U	140 U	140 U	150 U
Hexachlorobutadiene	NC	13 U	13 U	130 U	15 U	26 U	28 U	16 U	13 U	13 U	14 U
Caprolatam	NC	14 U	14 U	140 U	16 U	27 U	29 U	16 U	14 U	14 U	15 U
4-Chloro-3-methylphenol	240 or MDL	11 U	11 U	110 U	13 U	22 U	24 U	13 U	11 U	11 U	12 U
2-Methylnaphthalene	36,400	240 J	77 J	29000	960	1200	14 U	7.7 U	150 J	120 J	150 J
Hexachlorocyclopentadiene	NC	9.5 UJ	9.3 UJ	94 UJ	11 UJ	18 UJ	20 UJ	11 UJ	9.2 UJ	9.6 UJ	10 UJ
2,4,6-Trichlorophenol	NC	14 U	14 U	140 U	15 U	27 U	29 U	16 U	13 U	14 U	14 U
2,4,5-Trichlorophenol	100	25 U	25 U	250 U	28 U	49 U	53 U	29 U	24 U	25 U	26 U
1,1-Biphenyl	NC	64 J	11 U	5700	170 J	280 J	24 U	13 U	11 U	11 U	12 U
2-Chloronaphthalene	NC	7.9 U	7.8 U	78 U	8.8 U	15 U	17 U	9.3 U	7.7 U	8 U	8.3 U
2-Nitroaniline	430 or MDL	14 U	14 U	140 U	15 U	27 U	29 U	16 U	13 U	14 U	14 U
Dimethylphthalate	2,000	9 U	8.9 U	89 U	10 U	18 U	19 U	11 U	8.8 U	9.1 U	9.5 U
Acenaphthylene	41,000	68 J	11 U	5000	130 J	280 J	24 U	13 U	39 J	11 U	59 J
2,6-Dinitrotoluene	1,000	16 U	16 U	160 U	18 U	31 U	34 U	19 U	16 U	16 U	17 U
3-Nitroaniline	500 or MDL	61 U	60 U	600 U	68 U	120 U	130 U	72 U	59 U	62 U	64 U
Acenaphthene	50,000	57 J	8.2 U	5700	340 J	310 J	18 U	9.8 U	55 J	8.4 U	100 J
2,4-Dinitrophenol	200 or MDL	17 U	16 U	170 U	19 U	32 U	35 U	20 U	16 U	17 U	18 U
4-Nitrophenol	100 or MDL	37 U	36 U	370 U	41 U	72 U	78 U	43 U	36 U	37 U	39 U
Dibenzofuran	6,200	160 J	12 U	***13000***	250 J	830	26 U	15 U	12 U	13 U	13 U
2,4-Dinitrotoluene	1,000	7.5 U	7.4 U	75 U	8.4 U	15 U	16 U	8.9 U	7.3 U	7.6 U	7.9 U
Diethylphthalate	7,100	40 J	12 U	120 U	13 U	23 U	25 U	14 U	12 U	12 U	12 U
4-Chlorophenyl-phenylether	NC	9.4 U	9.2 U	93 U	10 U	18 U	20 U	11 U	9.1 U	9.5 U	9.8 U
Fluorene	50,000	290 J	11 U	23000	530	1300	23 U	45 J	90 J	96 J	160 J
4-Nitroaniline	NC	30 U	29 U	290 U	33 U	58 U	62 U	35 U	29 U	30 U	31 U
4,6-Dinitro-2-methylphenol	NC	22 U	22 U	220 U	25 U	43 U	46 U	26 U	21 U	22 U	23 U
N-Nitrosodiphenylamine	NC	9.6 U	9.5 U	95 U	11 U	19 U	20 U	11 U	9.3 U	9.7 U	10 U
4-Bromophenyl-phenylether	NC	9.9 U	9.8 U	98 U	11 U	19 U	21 U	12 U	9.7 U	10 U	10 U
Hexachlorobenzene	410	7.1 U	7 U	70 U	7.9 U	14 U	15 U	8.3 U	6.9 U	7.2 U	7.4 U
Atrazine	NC	12 U	11 U	110 U	13 U	22 U	24 U	14 U	11 U	12 U	12 U
Pentachlorophenol	1000 or MDL	12 U	12 U	120 U	13 U	23 U	25 U	14 U	11 U	12 U	12 U
Phenanthrene	50,000	780	45 J	47000 D	1700	5800	510 J	130 J	530	490	850
Anthracene	50,000	160 J	8.9 U	10000	330 J	1400	110 J	11 U	120 J	100 J	190 J
Carbazole	NC	120 J	8.2 U	6700	150 J	1400	18 U	9.8 U	54 J	8.4 U	8.8 U
Di-n-butylphthalate	8,100	5 U	5 U	50 U	5.6 U	9.8 U	11 U	5.9 U	4.9 U	53 J	87 J
Fluoranthene	50,000	410	38 J	28000	860	4400	950	79 J	260 J	190 J	330 J

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		TP-3	TP-6	SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		7.5 to 7.5	9.5 to 9.5	5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	41 to 43	49 to 51
Sampling Date		5/1/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	400	46 J	28000	870	4900	1000	78 J	300 J	270 J	430
Butylbenzylphthalate	50,000	13 U	12 U	130 U	47 J	25 U	27 U	15 U	39 J	13 U	70 J
3,3-Dichlorobenzidine	NA	61 U	60 U	600 U	68 U	120 U	130 U	71 U	59 U	61 U	64 U
Benzo(a)anthracene	224 or MDL	210 J	5.6 U	***14000***	***420*** J	***2500***	***710*** J	6.7 U	130 J	100 J	170 J
Chrysene	400	200 J	12 U	***11000***	370 J	***2200***	***680*** J	14 U	120 J	98 J	160 J
bis(2-Ethylhexyl)phthalate	50,000	360 J	350 J	610 J	620	310 J	340 J	400 J	500	500	460
Di-n-octyl phthalate	50,000	9 U	8.9 U	89 U	10 U	18 U	19 U	11 U	8.8 U	9.1 U	9.5 U
Benzo(b)fluoranthene	1,100	130 J	20 U	***12000***	340 J	***2000***	880	24 U	92 J	73 J	96 J
Benzo(k)fluoranthene	1,100	77 J	13 U	***5600***	140 J	670 J	460 J	15 U	44 J	13 U	53 J
Benzo(a)pyrene	61 or MDL	***150*** J	6.4 U	***11000***	***300*** J	***420*** J	***680*** J	7.7 U	***91*** J	***69*** J	***120*** J
Indeno(1,2,3-cd)pyrene	3,200	46 J	9 U	1300 J	75 J	380 J	120 J	11 U	8.9 U	9.2 U	9.6 U
Dibenz(a,h)anthracene	14 or MDL	11 U	11 U	***850*** J	12 U	***190*** J	23 U	13 U	11 U	11 U	12 U
Benzo(g,h,i)perylene	50,000	62 J	16 U	2100 J	92 J	510 J	180 J	19 U	16 U	17 U	17 U
Total Confident Conc. SVOC	500,000	5,064	986	379,560	12,094	37,820	6,730	815	3,614	2,247	4,245
Carcinogenic SVOCs in BaP Equivalents		191.4	ND	14,746	388.6	1,126.7	862.4	ND	114.8	87.3	148.7

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-21	SB-21	SB-21	SB-22	SB-22	SB-22	SB-22	SB-22	SB-23	SB-23
Sample Interval (Feet bgs)		11 to 13	15 to 17	21 to 23	5 to 7	11 to 13	15 to 17	22 to 23	26 to 27	9 to 10	15 to 16
Sampling Date		5/4/04	5/4/04	5/4/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	36 U	39 U	48 U	70 U	73 U	37 U	48 U	52 U	74 U	190 U
Phenol	30 or MDL	15 U	17 U	20 U	30 U	31 U	16 U	20 U	22 U	31 U	81 U
bis(2-Chloroethyl)ether	NC	18 U	20 U	24 U	35 U	37 U	18 U	24 U	26 U	37 U	95 U
2-Chlorophenol	800	16 U	17 U	21 U	31 U	32 U	16 U	21 U	23 U	33 U	84 U
2-Methylphenol	100 or MDL	23 U	25 U	31 U	45 U	47 U	24 U	31 U	34 U	48 U	120 U
2,2-oxybis(1-Chloropropane)	NC	20 U	22 U	26 U	38 U	40 U	20 U	27 U	29 U	41 U	100 U
Acetophenone	NC	19 U	21 U	26 U	37 U	39 U	20 UJ	26 U	28 U	39 U	100 U
3+4-Methylphenols	900	17 U	18 U	22 U	33 U	34 U	17 U	23 U	25 U	35 U	89 U
N-Nitroso-di-n-propylamine	NC	16 U	18 U	22 U	31 U	33 U	17 U	22 U	24 U	33 U	85 U
Hexachloroethane	NC	17 U	19 U	23 U	34 U	36 U	18 U	23 U	26 U	36 U	92 U
Nitrobenzene	200 or MDL	19 U	20 U	25 U	36 U	38 U	19 UJ	25 U	27 U	38 U	98 U
Isophorone	4,400	14 U	15 U	18 U	26 U	28 U	14 UJ	18 U	20 U	28 U	72 U
2-Nitrophenol	330 or MDL	15 U	16 U	20 U	29 U	30 U	15 UJ	20 U	22 U	30 U	78 U
2,4-Dimethylphenol	NC	20 U	22 U	26 U	38 U	40 U	20 UJ	27 U	29 U	41 U	100 U
bis(2-Chloroethoxy)methane	NC	17 U	18 U	22 U	32 U	34 U	17 UJ	22 U	24 U	34 U	88 U
2,4-Dichlorophenol	400	13 U	14 U	17 U	25 U	26 U	13 UJ	17 U	19 U	26 U	68 U
Naphthalene	13,000	850	180 J	11 U	10000 DJ	16 U	940 J	560 J	12 U	***16000*** DJ	***23000*** DJ
4-Chloroaniline	220 or MDL	140 U	150 U	180 U	260 U	280 U	140 UJ	180 U	200 U	280 U	720 U
Hexachlorobutadiene	NC	13 U	14 U	17 U	25 U	26 U	13 UJ	17 U	19 U	26 U	68 U
Caprolatam	NC	14 U	15 U	18 U	26 U	28 U	14 UJ	18 U	20 U	28 U	71 U
4-Chloro-3-methylphenol	240 or MDL	11 U	12 U	14 U	21 U	22 U	11 UJ	15 U	16 U	22 U	57 U
2-Methylnaphthalene	36,400	200 J	57 J	8.4 U	3900 J	400 J	290 J	150 J	9.2 U	4300 JD	11000 JD
Hexachlorocyclopentadiene	NC	9.2 UJ	10 UJ	12 UJ	18 UJ	19 UJ	9.4 UJ	12 UJ	13 UJ	19 UJ	49 UJ
2,4,6-Trichlorophenol	NC	13 U	14 U	18 U	26 U	27 U	14 U	18 U	19 U	27 U	70 U
2,4,5-Trichlorophenol	100	24 U	26 U	32 U	47 U	50 U	25 U	32 U	35 U	50 U	130 U
1,1-Biphenyl	NC	47 J	12 U	14 U	710 J	22 U	40 J	51 J	16 U	670 J	1900
2-Chloronaphthalene	NC	7.6 U	8.3 U	10 U	15 U	16 U	7.8 U	10 U	11 U	16 U	40 U
2-Nitroaniline	430 or MDL	13 U	14 U	18 U	26 U	27 U	14 U	18 U	19 U	27 U	360 J
Dimethylphthalate	2,000	8.7 U	9.5 U	12 U	17 U	18 U	9 U	12 U	13 U	18 U	46 U
Acenaphthylene	41,000	120 J	12 U	15 U	1500 J	85 J	450	62 J	16 U	690 J	1000 J
2,6-Dinitrotoluene	1,000	16 U	17 U	21 U	30 U	32 U	16 U	21 U	23 U	32 U	83 U
3-Nitroaniline	500 or MDL	59 U	64 U	79 U	110 U	120 U	61 U	79 U	86 U	120 U	310 U
Acenaphthene	50,000	150 J	8.8 U	11 U	1700 J	190 J	810	91 J	12 U	3700 JD	11000
2,4-Dinitrophenol	200 or MDL	16 U	18 U	22 U	31 U	33 U	17 U	22 U	24 U	33 U	85 U
4-Nitrophenol	100 or MDL	36 U	39 U	48 U	69 U	73 U	37 U	48 U	52 U	74 U	190 U
Dibenzofuran	6,200	180 J	13 U	16 U	1700 J	270 J	810	190 J	18 U	3300	5500
2,4-Dinitrotoluene	1,000	7.3 U	7.9 U	9.7 U	14 U	15 U	7.5 U	9.8 U	11 U	15 U	39 U
Diethylphthalate	7,100	54 J	12 U	15 U	22 U	24 U	12 U	15 U	17 U	24 U	61 U
4-Chlorophenyl-phenylether	NC	9.1 U	9.9 U	12 U	18 U	19 U	9.3 U	12 U	13 U	19 U	48 U
Fluorene	50,000	220 J	11 U	14 U	3100 J	710 J	2300 J	410 J	15 U	4900 J	8100 J
4-Nitroaniline	NC	29 U	31 U	38 U	56 U	59 U	29 U	38 U	42 U	59 U	150 U
4,6-Dinitro-2-methylphenol	NC	21 U	23 U	28 U	41 U	43 U	22 U	28 U	31 U	44 U	110 U
N-Nitrosodiphenylamine	NC	9.3 U	10 U	12 U	18 U	19 U	9.5 U	12 U	14 U	19 U	49 U
4-Bromophenyl-phenylether	NC	9.6 U	10 U	13 U	19 U	20 U	9.9 U	13 U	14 U	20 U	51 U
Hexachlorobenzene	410	6.9 U	7.5 U	9.2 U	13 U	14 U	7 U	9.2 U	10 U	14 U	36 U
Atrazine	NC	11 U	12 U	15 U	22 U	23 U	11 U	15 U	16 U	23 U	59 U
Pentachlorophenol	1000 or MDL	11 U	12 U	15 U	22 U	23 U	12 U	15 U	17 U	24 U	60 U
Phenanthrene	50,000	600	110 J	11 U	8900 DJ	5800	9900 D	2000	170 J	16000 D	26000 D
Anthracene	50,000	210 J	9.5 U	12 U	2200 J	350 J	1500	300 J	13 U	3500	5900
Carbazole	NC	140 J	8.8 U	11 U	670 J	150 J	93 J	150 J	12 U	640 J	850 J
Di-n-butylphthalate	8,100	71 J	5.3 U	6.5 U	9.4 U	10 U	5 U	6.5 U	7.1 U	10 U	26 U
Fluoranthene	50,000	480	63 J	6.8 U	4700 J	1200	2900 JD	1100	100 J	4700 JD	14000

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-21	SB-21	SB-21	SB-22	SB-22	SB-22	SB-22	SB-22	SB-23	SB-23
Sample Interval (Feet bgs)		11 to 13	15 to 17	21 to 23	5 to 7	11 to 13	15 to 17	22 to 23	26 to 27	9 to 10	15 to 16
Sampling Date		5/4/04	5/4/04	5/4/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	460	52 J	8.7 U	5600	1200	2900 JD	980	99 J	4300 JD	11000
Butylbenzylphthalate	50,000	190 J	13 U	16 U	24 U	25 U	13 U	16 U	18 U	25 U	65 U
3,3-Dichlorobenzidine	NA	59 U	64 U	78 U	110 U	120 U	60 U	79 U	86 U	120 U	310 U
Benzo(a)anthracene	224 or MDL	210 J	6 U	7.4 U	***3600*** J	***500*** J	***2100***	***450*** J	67 J	***3100***	***4400***
Chrysene	400	180 J	13 U	15 U	***2800***	***440*** J	***2000***	340 J	17 U	***2900***	***3800***
bis(2-Ethylhexyl)phthalate	50,000	1100 B	9.1 U	11 U	230 J	280 J	480	470 J	700	650 J	380 J
Di-n-octyl phthalate	50,000	8.7 U	9.5 U	12 U	17 U	18 U	9 U	12 U	13 U	18 U	46 U
Benzo(b)fluoranthene	1,100	170 J	21 U	26 U	***3800*** J	230 J	***1500***	190 J	28 U	***2700***	***3100***
Benzo(k)fluoranthene	1,100	73 J	14 U	17 U	***1900*** J	250 J	890 J	240 J	18 U	***2200*** J	***2300*** J
Benzo(a)pyrene	61 or MDL	***160*** J	6.8 U	8.4 U	***3000*** J	***350*** J	***1500***	***290*** J	56 J	***2700***	***3100***
Indeno(1,2,3-cd)pyrene	3,200	67 J	9.6 U	12 U	360 J	120 J	160 J	99 J	13 U	280 J	350 J
Dibenz(a,h)anthracene	14 or MDL	11 U	12 U	14 U	***160*** J	22 U	44 J	14 U	16 U	***83*** J	57 U
Benzo(g,h,i)perylene	50,000	82 J	17 U	21 U	690 J	140 J	230 J	130 J	23 U	470 J	570 J
Total Confident Conc. SVOC	500,000	6,014	462	ND	61,220	12,665	31,837	8,253	1,192	77,783	137,610
Carcinogenic SVOCs in BaP Equivalents		207.2	ND	ND	3,983	441.9	1,948.9	369.7	62.7	3,442	3,946

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-23	SB-23	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-25
Sample Interval (Feet bgs)		17 to 18	24 to 25	5 to 7	7 to 9	25 to 27	33 to 35	33 to 35	53 to 55	82 to 84	7 to 9
Sampling Date		4/27/04	4/27/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	08/30/04	4/26/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	53 U	49 U	370 U	390 U	39 U	47 U	48 U	37 U	37 U	690 U
Phenol	30 or MDL	23 U	21 U	160 U	170 U	17 U	20 U	21 U	16 U	16 U	290 U
bis(2-Chloroethyl)ether	NC	27 U	24 U	190 U	200 U	20 U	24 U	24 U	19 U	19 U	350 U
2-Chlorophenol	800	23 U	21 U	160 U	170 U	17 U	21 U	21 U	16 U	17 U	300 U
2-Methylphenol	100 or MDL	34 U	31 U	240 U	250 U	25 U	31 U	31 U	24 U	24 U	440 U
2,2-oxybis(1-Chloropropane)	NC	29 U	27 U	210 U	220 U	22 U	26 U	27 U	20 U	21 U	380 U
Acetophenone	NC	28 U	26 U	200 U	210 U	21 U	25 U	26 U	20 U	20 U	370 U
3+4-Methylphenols	900	25 U	23 U	170 U	180 U	18 U	22 U	23 U	17 U	18 U	320 U
N-Nitroso-di-n-propylamine	NC	24 U	22 U	170 U	180 U	630	21 U	22 U	17 U	17 U	310 U
Hexachloroethane	NC	26 U	24 U	180 U	190 U	110 J	23 U	24 U	18 U	18 U	340 U
Nitrobenzene	200 or MDL	28 U	25 U	190 U	200 U	20 U	25 U	25 U	19 U	19 U	360 U
Isophorone	4,400	20 U	18 U	140 U	150 U	15 U	18 U	18 U	14 U	14 U	260 U
2-Nitrophenol	330 or MDL	22 U	20 U	150 U	160 U	16 U	19 U	20 U	15 U	15 U	280 U
2,4-Dimethylphenol	NC	29 U	27 U	210 U	220 U	41 J	26 U	27 U	20 U	21 U	380 U
bis(2-Chloroethoxy)methane	NC	25 U	23 U	170 U	180 U	18 U	22 U	23 U	17 U	17 U	320 U
2,4-Dichlorophenol	400	19 U	17 U	130 U	140 U	14 U	17 U	17 U	13 U	13 U	250 U
Naphthalene	13,000	8300 DJ	3200 J	730 J	760 J	***17000*** D	430 J	200 J	66 J	8.3 U	150 U
4-Chloroaniline	220 or MDL	200 U	180 U	1400 U	1500 U	150 U	180 U	180 U	140 U	140 U	2600 U
Hexachlorobutadiene	NC	19 U	17 U	130 U	140 U	14 U	17 U	17 U	13 U	13 U	250 U
Caprolatam	NC	20 U	18 U	140 U	150 U	15 U	18 U	18 U	14 U	14 U	260 U
4-Chloro-3-methylphenol	240 or MDL	16 U	15 U	110 U	120 U	12 U	14 U	15 U	11 U	11 U	210 U
2-Methylnaphthalene	36,400	1400 J	770 J	65 U	69 U	4400 D	130 J	8.5 U	6.5 U	6.6 U	120 U
Hexachlorocyclopentadiene	NC	14 UJ	12 UJ	95 UJ	100 UJ	10 UJ	12 UJ	12 UJ	9.5 UJ	9.6 UJ	180 UJ
2,4,6-Trichlorophenol	NC	20 U	18 U	140 U	150 U	14 U	18 U	18 U	14 U	14 U	250 U
2,4,5-Trichlorophenol	100	36 U	33 U	250 U	260 U	26 U	32 U	33 U	25 U	25 U	460 U
1,1-Biphenyl	NC	120 J	76 J	110 U	120 U	1200	14 U	15 U	11 U	11 U	210 U
2-Chloronaphthalene	NC	11 U	10 U	79 U	83 U	8.3 U	10 U	10 U	7.9 U	8 U	150 U
2-Nitroaniline	430 or MDL	20 U	18 U	140 U	150 U	14 U	18 U	18 U	14 U	14 U	250 U
Dimethylphthalate	2,000	13 U	12 U	91 U	96 U	9.5 U	12 U	12 U	9 U	9.1 U	170 U
Acenaphthylene	41,000	76 J	53 J	110 U	450 J	1400	54 J	15 U	11 U	11 U	210 U
2,6-Dinitrotoluene	1,000	23 U	21 U	160 U	170 U	17 U	21 U	21 U	16 U	16 U	300 U
3-Nitroaniline	500 or MDL	88 U	80 U	610 U	650 U	64 U	78 U	80 U	61 U	62 U	1100 U
Acenaphthene	50,000	710	410 J	84 U	590 J	1800	74 J	11 U	8.4 U	8.4 U	150 U
2,4-Dinitrophenol	200 or MDL	24 U	22 U	170 U	180 U	18 U	21 U	22 U	17 U	17 U	310 U
4-Nitrophenol	100 or MDL	53 U	48 U	370 U	390 U	39 U	47 U	48 U	37 U	37 R	690 U
Dibenzofuran	6,200	220 J	140 J	130 U	130 U	3200	76 J	16 U	12 U	13 U	230 U
2,4-Dinitrotoluene	1,000	11 U	9.9 U	76 U	80 U	8 U	9.7 U	9.8 U	7.6 U	7.6 U	140 U
Diethylphthalate	7,100	17 U	16 U	120 U	130 U	13 U	15 U	16 U	12 U	12 U	220 U
4-Chlorophenyl-phenylether	NC	13 U	12 U	94 U	99 U	9.9 U	12 U	12 U	9.4 U	9.5 U	170 U
Fluorene	50,000	510 J	310 J	110 U	1500 J	4400 D	160 J	54 J	11 U	11 U	200 U
4-Nitroaniline	NC	43 U	39 U	300 U	310 U	31 U	38 U	39 U	30 U	30 U	550 U
4,6-Dinitro-2-methylphenol	NC	32 U	29 U	220 U	230 U	23 U	28 U	29 U	22 U	22 U	410 U
N-Nitrosodiphenylamine	NC	14 U	13 U	96 U	100 U	10 U	12 U	13 U	9.6 U	9.7 U	180 U
4-Bromophenyl-phenylether	NC	14 U	13 U	100 U	110 U	10 U	13 U	13 U	10 U	10 U	180 U
Hexachlorobenzene	410	10 U	9.3 U	71 U	75 U	7.5 U	9.1 U	9.3 U	7.1 U	7.2 U	130 U
Atrazine	NC	17 U	15 U	120 U	120 U	12 U	15 U	15 U	12 U	12 U	210 U
Pentachlorophenol	1000 or MDL	17 U	15 U	120 U	120 U	12 U	15 U	15 U	12 U	12 U	220 U
Phenanthrene	50,000	3000	2800	3200 J	5000	12000 D	440 J	180 J	83 J	8.6 U	160 U
Anthracene	50,000	400 J	220 J	540 J	2300 J	2900	100 J	12 U	9 U	9.1 U	170 U
Carbazole	NC	300 J	120 J	84 U	88 U	1100	11 U	11 U	8.4 U	8.4 U	150 U
Di-n-butylphthalate	8,100	7.2 U	6.6 U	50 U	53 U	5.3 U	52 J	6.6 U	5 U	5.1 U	93 U
Fluoranthene	50,000	890	640	3800 J	13000 J	5700 DJ	250 J	98 J	44 J	5.3 U	3000 J

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-23	SB-23	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-25
Sample Interval (Feet bgs)		17 to 18	24 to 25	5 to 7	7 to 9	25 to 27	33 to 35	33 to 35	53 to 55	82 to 84	7 to 9
Sampling Date		4/27/04	4/27/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	08/30/04	4/26/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	780	640	6200	14000	6100 D	270 J	100 J	47 J	6.8 U	4800 J
Butylbenzylphthalate	50,000	18 U	17 U	130 U	130 U	13 U	16 U	17 U	13 U	13 U	240 U
3,3-Dichlorobenzidine	NA	87 U	80 U	610 U	640 U	64 U	78 U	79 U	61 U	61 U	1100 U
Benzo(a)anthracene	224 or MDL	***380*** J	***310*** J	***5400***	***11000***	***3000*** JD	160 J	57 J	5.7 U	5.8 U	***11000***
Chrysene	400	290 J	260 J	***5500***	***9100***	***2900***	150 J	16 U	12 U	12 U	***11000***
bis(2-Ethylhexyl)phthalate	50,000	520 J	600	87 U	92 U	130 J	110 J	190 J	81 J	51 J	160 U
Di-n-octyl phthalate	50,000	13 U	12 U	91 U	96 U	9.5 U	12 U	12 U	9 U	9.1 U	170 U
Benzo(b)fluoranthene	1,100	230 J	170 J	***9300***	***13000***	***2900***	130 J	26 U	20 U	20 U	***22000***
Benzo(k)fluoranthene	1,100	200 J	130 J	***2700*** J	***6700***	1100	67 J	17 U	13 U	13 U	***5600*** J
Benzo(a)pyrene	61 or MDL	***270*** J	***180*** J	***8000***	***16000***	***2700***	***140*** J	8.5 U	6.5 U	6.6 U	***21000***
Indeno(1,2,3-cd)pyrene	3,200	85 J	70 J	3000 J	***5100*** J	400 J	12 UJ	12 UJ	9.2 UJ	9.3 U	***5200*** J
Dibenz(a,h)anthracene	14 or MDL	16 U	15 U	***1300*** J	***2800*** J	***280*** J	14 U	14 U	11 U	11 U	***3100*** J
Benzo(g,h,i)perylene	50,000	110 J	68 J	3300 J	5200	460	58 J	21 U	16 U	17 U	6300 J
Total Confident Conc. SVOC	500,000	18,791	11,167	52,970	106,500	75,851	2,851	879	321	51	93,000
Carcinogenic SVOCs in BaP Equivalents		344.4	238.9	11,152	21,868	3,650	171.2	5.7	ND	ND	28,086

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-25	SB-25	SB-25	SB-26	SB-26	SB-26	SB-27	SB-27	SB-27	SB-27
Sample Interval (Feet bgs)		20 to 22	32 to 33	33 to 34	6.5 to 7	31 to 33	35 to 37	5 to 5.5	5.9 to 6.3	40.9 to 41.3	44.5 to 45
Sampling Date		4/26/04	4/26/04	4/26/04	07/08/04	07/26/04	07/27/04	07/09/04	07/22/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	72 U	420 U	52 U	39 U	380 U	48 U	73 U	41 U	38 U	48 U
Phenol	30 or MDL	31 U	180 U	22 U	17 U	160 U	21 U	31 U	18 U	16 U	20 U
bis(2-Chloroethyl)ether	NC	36 U	210 U	26 U	20 U	190 U	24 U	37 U	21 U	19 U	24 U
2-Chlorophenol	800	32 U	180 U	23 U	17 U	170 U	21 U	32 U	18 U	17 U	21 U
2-Methylphenol	100 or MDL	47 U	270 U	33 U	25 U	250 U	31 U	47 U	27 U	25 U	31 U
2,2-oxybis(1-Chloropropane)	NC	40 U	230 U	29 U	22 U	210 U	27 U	40 U	23 U	21 U	27 U
Acetophenone	NC	39 U	220 U	28 U	21 U	200 U	26 U	39 U	22 U	20 U	26 U
3+4-Methylphenols	900	34 U	200 U	24 U	18 U	180 U	23 U	280 J	19 U	18 U	23 U
N-Nitroso-di-n-propylamine	NC	33 U	190 U	23 U	18 U	170 U	22 U	33 U	19 U	17 U	22 U
Hexachloroethane	NC	35 U	200 U	25 U	19 U	190 U	24 U	35 U	20 U	19 U	23 U
Nitrobenzene	200 or MDL	38 U	220 U	27 U	20 U	200 U	25 U	38 U	21 U	20 U	25 U
Isophorone	4,400	27 U	160 U	20 U	15 U	150 U	18 U	28 U	16 U	14 U	18 U
2-Nitrophenol	330 or MDL	30 U	170 U	21 U	16 U	160 U	20 U	30 U	17 U	16 U	20 U
2,4-Dimethylphenol	NC	40 U	230 U	78 J	22 U	210 U	27 U	82 J	23 U	21 U	200 J
bis(2-Chloroethoxy)methane	NC	34 U	190 U	24 U	18 U	180 U	23 U	34 U	19 U	18 U	22 U
2,4-Dichlorophenol	400	26 U	150 U	19 U	14 U	140 U	17 U	26 U	15 U	14 U	17 U
Naphthalene	13,000	***43000*** D	***74000*** D	5900 DJ	8.7 U	4000	11 U	16 U	9.1 U	180 J	5200 D
4-Chloroaniline	220 or MDL	270 U	***26000***	200 U	150 U	1400 U	180 U	270 U	160 U	140 U	180 U
Hexachlorobutadiene	NC	26 U	150 U	19 U	14 U	140 U	17 U	26 U	15 U	14 U	17 U
Caprolatam	NC	27 U	160 U	20 U	15 U	140 U	18 U	27 U	15 U	14 U	18 U
4-Chloro-3-methylphenol	240 or MDL	22 U	130 U	16 U	12 U	120 U	15 U	22 U	12 U	12 U	15 U
2-Methylnaphthalene	36,400	2400	13000	920 J	6.9 U	450 J	8.5 U	13 U	7.2 U	6.7 U	1800
Hexachlorocyclopentadiene	NC	19 UJ	110 UJ	13 UJ	10 UJ	98 UJ	12 UJ	19 UJ	11 UJ	9.8 UJ	12 UJ
2,4,6-Trichlorophenol	NC	27 U	150 U	19 U	14 U	140 U	18 U	27 U	15 U	14 U	18 U
2,4,5-Trichlorophenol	100	49 U	280 U	35 U	26 U	260 U	33 U	49 U	28 U	26 U	32 U
1,1-Biphenyl	NC	4000	7700	250 J	12 U	120 U	15 U	22 U	12 U	12 U	230 J
2-Chloronaphthalene	NC	15 U	89 U	11 U	8.3 U	82 U	10 U	15 U	8.8 U	8.1 U	10 U
2-Nitroaniline	430 or MDL	27 U	150 U	19 U	14 U	140 U	18 U	27 U	15 U	14 U	18 U
Dimethylphthalate	2,000	18 U	100 U	13 U	9.5 U	94 U	12 U	18 U	10 U	9.3 U	12 U
Acenaphthylene	41,000	1300	5700	230 J	12 U	670 J	15 U	22 U	13 U	12 U	370 J
2,6-Dinitrotoluene	1,000	31 U	180 U	23 U	17 U	170 U	21 U	32 U	18 U	17 U	21 U
3-Nitroaniline	500 or MDL	120 U	690 U	86 U	64 U	630 U	80 U	120 U	68 U	63 U	79 U
Acenaphthene	50,000	4200	10000	360 J	8.8 U	2500 J	11 U	97 J	84 J	8.6 U	270 J
2,4-Dinitrophenol	200 or MDL	33 U	190 U	23 U	18 U	170 U	22 U	33 U	19 U	17 U	22 U
4-Nitrophenol	100 or MDL	72 U	420 U	52 U	39 U	***1400*** J	48 U	72 U	41 U	38 U	48 U
Dibenzofuran	6,200	6100 D	***21000***	640 J	13 U	1500 J	16 U	24 U	14 U	13 U	520
2,4-Dinitrotoluene	1,000	15 U	85 U	11 U	8 U	78 U	9.8 U	15 U	8.4 U	7.8 U	9.8 U
Diethylphthalate	7,100	23 U	130 U	17 U	13 U	120 U	16 U	23 U	13 U	12 U	15 U
4-Chlorophenyl-phenylether	NC	18 U	110 U	13 U	9.9 U	97 U	12 U	18 U	10 U	9.6 U	12 U
Fluorene	50,000	11000 D	30000 D	1200 J	11 U	2300 J	14 U	93 J	70 J	50 J	1200 J
4-Nitroaniline	NC	58 U	330 U	41 U	31 U	310 U	39 U	58 U	33 U	30 U	38 U
4,6-Dinitro-2-methylphenol	NC	43 U	250 U	31 U	23 U	230 U	29 U	43 U	24 U	23 U	28 U
N-Nitrosodiphenylamine	NC	19 U	110 U	13 U	10 U	99 U	13 U	19 U	11 U	9.9 U	12 U
4-Bromophenyl-phenylether	NC	19 U	110 U	14 U	10 U	100 U	13 U	20 U	11 U	10 U	13 U
Hexachlorobenzene	410	14 U	80 U	9.9 U	7.5 U	73 U	9.2 U	14 U	7.9 U	7.3 U	9.2 U
Atrazine	NC	23 U	130 U	16 U	12 U	120 U	15 U	23 U	13 U	12 U	15 U
Pentachlorophenol	1000 or MDL	23 U	130 U	17 U	12 U	120 U	15 U	23 U	13 U	12 U	15 U
Phenanthrene	50,000	34000 D	***90000*** D	2800 J	8.9 U	15000	52 J	1100 J	1100	210 J	3000 D
Anthracene	50,000	3500	20000	660 J	9.5 U	3700 J	12 U	290 J	270 J	70 J	780
Carbazole	NC	4400	5600	480 J	8.8 U	550 J	11 U	16 U	61 J	8.6 U	280 J
Di-n-butylphthalate	8,100	9.8 U	57 U	7 U	5.3 U	52 U	6.6 U	9.9 U	5.6 U	5.2 U	6.5 U
Fluoranthene	50,000	14000 DJ	45000 DJ	1400 J	5.5 U	11000	6.9 U	2000 J	1600	160 J	2000

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-25	SB-25	SB-25	SB-26	SB-26	SB-26	SB-27	SB-27	SB-27	SB-27
Sample Interval (Feet bgs)		20 to 22	32 to 33	33 to 34	6.5 to 7	31 to 33	35 to 37	5 to 5.5	5.9 to 6.3	40.9 to 41.3	44.5 to 45
Sampling Date		4/26/04	4/26/04	4/26/04	07/08/04	07/26/04	07/27/04	07/09/04	07/22/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	16000 D	40000 D	1300	7.1 U	9800	8.8 U	2500	1500	190 J	2300
Butylbenzylphthalate	50,000	25 U	140 U	18 U	13 U	130 U	17 U	78 J	14 U	13 U	16 U
3,3-Dichlorobenzidine	NA	120 U	680 U	85 U	64 U	630 U	79 U	120 U	67 U	62 U	79 U
Benzo(a)anthracene	224 or MDL	***7300*** D	***25000***	***830*** J	6 U	***7600***	7.5 U	***1100***	***680***	100 J	***1000***
Chrysene	400	***6600*** D	***19000***	***650***	13 U	***5700***	16 U	***1300***	***490***	74 J	***720***
bis(2-Ethylhexyl)phthalate	50,000	120 J	98 U	93 J	340 J	90 U	110 J	17 U	54 J	190 J	390 J
Di-n-octyl phthalate	50,000	18 U	100 U	13 U	9.5 U	94 U	12 U	18 U	10 U	9.3 U	12 U
Benzo(b)fluoranthene	1,100	***5800*** D	***19000***	490 J	21 U	***7200***	26 U	1100	540	92 J	730 J
Benzo(k)fluoranthene	1,100	***2300***	***6500***	270 J	14 U	***2400*** J	17 U	460 J	270 J	13 U	300 J
Benzo(a)pyrene	61 or MDL	***5600*** D	***18000***	***570***	6.9 U	***7100***	8.5 U	***900***	***500***	43 J	***610***
Indeno(1,2,3-cd)pyrene	3,200	950 J	***3700*** J	150 J	9.6 U	95 U	12 U	480 J	270 J	9.4 U	71 J
Dibenz(a,h)anthracene	14 or MDL	***720***	2000 J	16 U	12 U	***550*** J	14 U	22 U	12 U	11 U	14 U
Benzo(g,h,i)perylene	50,000	1300	3500 J	150 J	17 U	2800 J	21 U	360 J	290 J	17 U	130 J
Total Confident Conc. SVOC	500,000	174,590	484,700	19,421	340	86,220	162	12,138	7,779	1,359	22,101
Carcinogenic SVOCs in BaP Equivalents		7,814	25,025	726.2	ND	9,211	ND	1,185.6	656.6	62.9	800.3

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-47	SB-47	SB-47	SB-48	SB-48	SB-48	SB-49	SB-49	SB-49	SB-49
Sample Interval (Feet bgs)		7 to 9	13 to 15	17 to 19	7 to 9	15 to 16	19 to 21	10 to 12	14 to 15	17 to 18	23 to 24
Sampling Date		5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	4/28/04	4/28/04	4/28/04	4/28/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	36 U	77 U	46 U	39 U	89 U	52 U	39 U	39 U	380 U	51 U
Phenol	30 or MDL	15 U	33 U	20 U	16 U	38 U	22 U	17 U	17 U	160 U	22 U
bis(2-Chloroethyl)ether	NC	18 U	39 U	23 U	19 U	45 U	26 U	20 U	20 U	190 U	25 U
2-Chlorophenol	800	16 U	34 U	20 U	17 U	39 U	23 U	17 U	17 U	170 U	22 U
2-Methylphenol	100 or MDL	23 U	50 U	30 U	25 U	57 U	34 U	25 U	25 U	250 U	33 U
2,2-oxybis(1-Chloropropane)	NC	20 U	43 U	26 U	21 U	49 U	29 U	22 U	22 U	210 U	28 U
Acetophenone	NC	19 U	41 U	25 U	21 U	48 U	28 U	21 U	21 U	200 U	27 U
3+4-Methylphenols	900	17 U	36 U	22 U	18 U	42 U	24 U	18 U	18 U	410 J	24 U
N-Nitroso-di-n-propylamine	NC	16 U	35 U	21 U	17 U	40 U	23 U	18 U	18 U	170 U	23 U
Hexachloroethane	NC	17 U	38 U	23 U	19 U	43 U	25 U	19 U	19 U	190 U	25 U
Nitrobenzene	200 or MDL	19 U	40 U	24 U	20 U	46 U	27 U	20 U	20 U	200 U	26 U
Isophorone	4,400	14 U	29 U	18 U	15 U	34 U	20 U	15 U	15 U	140 U	19 U
2-Nitrophenol	330 or MDL	15 U	32 U	19 U	16 U	37 U	21 U	16 U	16 U	160 U	21 U
2,4-Dimethylphenol	NC	20 U	43 U	26 U	21 U	3700	420 J	22 U	130 J	3100 J	370 J
bis(2-Chloroethoxy)methane	NC	17 U	36 U	22 U	18 U	42 U	24 U	18 U	18 U	180 U	24 U
2,4-Dichlorophenol	400	13 U	28 U	17 U	14 U	32 U	19 U	14 U	14 U	140 U	18 U
Naphthalene	13,000	100 J	120 J	10 U	260 J	***160000*** D	310 J	***65000*** D	4100 DJ	***430000*** DJ	9600 J
4-Chloroaniline	220 or MDL	140 U	290 U	170 U	150 U	340 U	200 U	150 U	150 U	1400 U	190 U
Hexachlorobutadiene	NC	13 U	28 U	17 U	14 U	32 U	19 U	14 U	14 U	140 U	18 U
Caprolatam	NC	14 U	29 U	17 U	15 U	34 U	20 U	15 U	15 U	140 U	19 U
4-Chloro-3-methylphenol	240 or MDL	11 U	23 U	14 U	12 U	27 U	16 U	12 U	12 U	110 U	15 U
2-Methylnaphthalene	36,400	62 J	14 U	8.1 U	52 J	22000 D	86 J	24000 D	840	***130000*** J	3900 J
Hexachlorocyclopentadiene	NC	9.2 UJ	20 UJ	12 UJ	9.9 UJ	23 UJ	13 UJ	10 UJ	10 UJ	97 UJ	13 UJ
2,4,6-Trichlorophenol	NC	13 U	29 U	17 U	14 U	33 U	19 U	15 U	15 U	140 U	19 U
2,4,5-Trichlorophenol	100	24 U	52 U	31 U	26 U	60 U	35 U	27 U	27 U	260 U	34 U
1,1-Biphenyl	NC	11 U	23 U	14 U	12 U	2200	16 U	1400	50 J	9300	240 J
2-Chloronaphthalene	NC	7.6 U	16 U	9.8 U	8.2 U	19 U	11 U	8.4 U	8.4 U	81 U	11 U
2-Nitroaniline	430 or MDL	13 U	29 U	17 U	14 U	33 U	19 U	15 U	15 U	140 U	19 U
Dimethylphthalate	2,000	8.7 U	19 U	11 U	9.4 U	22 U	13 U	9.6 U	9.6 U	93 U	12 U
Acenaphthylene	41,000	11 U	360 J	14 U	12 U	5900	16 U	2700 D	66 J	22000 D	870
2,6-Dinitrotoluene	1,000	16 U	34 U	20 U	17 U	39 U	23 U	17 U	17 U	170 U	22 U
3-Nitroaniline	500 or MDL	59 U	130 U	76 U	63 U	150 U	86 U	65 U	65 U	630 U	83 U
Acenaphthene	50,000	61 J	140 J	10 U	130 J	2900	12 U	6300 D	130 J	9400	240 J
2,4-Dinitrophenol	200 or MDL	16 U	35 U	21 U	17 U	40 U	23 U	18 U	18 U	170 U	23 U
4-Nitrophenol	100 or MDL	36 U	77 U	46 U	38 U	89 U	52 U	39 U	39 U	380 U	50 U
Dibenzofuran	6,200	12 U	82 J	16 U	43 J	4400	18 U	1700	91 J	***26000***	670
2,4-Dinitrotoluene	1,000	7.3 U	16 U	9.4 U	7.8 U	18 U	11 U	8 U	8 U	77 U	10 U
Diethylphthalate	7,100	12 U	25 U	15 U	12 U	29 U	17 U	13 U	13 U	120 U	16 U
4-Chlorophenyl-phenylether	NC	9.1 U	19 U	12 U	9.7 U	23 U	13 U	10 U	10 U	96 U	13 U
Fluorene	50,000	10 U	22 U	13 U	48 J	7000	15 U	4900 DJ	73 J	25000 DJ	1200 J
4-Nitroaniline	NC	29 U	62 U	37 U	31 U	71 U	42 U	31 U	31 U	300 U	40 U
4,6-Dinitro-2-methylphenol	NC	21 U	46 U	27 U	23 U	53 U	31 U	23 U	23 U	230 U	30 U
N-Nitrosodiphenylamine	NC	9.3 U	20 U	12 U	10 U	23 U	14 U	10 U	10 U	99 U	13 U
4-Bromophenyl-phenylether	NC	9.6 U	21 U	12 U	10 U	24 U	14 U	11 U	11 U	100 U	14 U
Hexachlorobenzene	410	6.9 U	15 U	8.8 U	7.4 U	17 U	10 U	7.5 U	7.5 U	73 U	9.7 U
Atrazine	NC	11 U	24 U	14 U	12 U	28 U	16 U	12 U	12 U	120 U	16 U
Pentachlorophenol	1000 or MDL	11 U	24 U	15 U	12 U	28 U	17 U	13 U	13 U	120 U	16 U
Phenanthrene	50,000	95 J	1500	11 U	220 J	22000 D	140 J	49000 D	500	***150000*** D	3800 JD
Anthracene	50,000	8.7 U	600 J	11 U	96 J	4900	13 U	3700 D	9.6 U	25000	800
Carbazole	NC	8.1 U	17 U	10 U	71 J	2000	12 U	1200 J	8.9 U	13000 J	380 J
Di-n-butylphthalate	8,100	4.9 U	10 U	6.3 U	69 J	12 U	7.1 U	5.3 U	5.4 U	52 U	6.9 U
Fluoranthene	50,000	65 J	3400	6.6 U	640	8300 D	65 J	7300 D	58 J	44000 D	1900

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-47	SB-47	SB-47	SB-48	SB-48	SB-48	SB-49	SB-49	SB-49	SB-49
Sample Interval (Feet bgs)		7 to 9	13 to 15	17 to 19	7 to 9	15 to 16	19 to 21	10 to 12	14 to 15	17 to 18	23 to 24
Sampling Date		5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	4/28/04	4/28/04	4/28/04	4/28/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	71 J	3700	8.4 U	810	7200	61 J	9500 D	60 J	36000 D	1700
Butylbenzylphthalate	50,000	12 U	26 U	16 U	13 U	31 U	18 U	13 U	13 UJ	130 U	17 U
3,3-Dichlorobenzidine	NA	59 U	130 U	76 U	63 U	150 U	85 U	64 U	65 UJ	620 U	83 U
Benzo(a)anthracene	224 or MDL	43 J	***2400***	7.1 U	***910***	***4100***	8 U	***3100***	6.1 UJ	***19000***	***740***
Chrysene	400	44 J	***2000***	15 U	***830***	***3500***	17 U	***3000*** D	13 UJ	***18000***	***610***
bis(2-Ethylhexyl)phthalate	50,000	320 J	390 J	50 J	360 J	200 J	12 U	810	160 J	2100 J	690
Di-n-octyl phthalate	50,000	8.7 U	19 U	11 U	9.4 U	22 U	13 U	9.6 U	9.6 UJ	93 U	12 U
Benzo(b)fluoranthene	1,100	58 J	***2100***	25 U	610	***2600***	28 U	***2000***	21 U	***16000***	280 J
Benzo(k)fluoranthene	1,100	13 U	790	16 U	320 J	***1300***	18 U	***1400*** J	14 U	***7000*** J	370 J
Benzo(a)pyrene	61 or MDL	46 J	***1900***	8.1 U	***660***	***2800***	9.2 U	***2300***	6.9 U	***14000***	***450*** J
Indeno(1,2,3-cd)pyrene	3,200	8.9 U	220 J	11 U	190 J	960	13 U	250 J	9.7 UJ	1100 J	120 J
Dibenz(a,h)anthracene	14 or MDL	11 U	***130*** J	14 U	***98*** J	***430*** J	16 U	***73*** J	12 U	***440*** J	15 U
Benzo(g,h,i)perylene	50,000	16 U	330 J	21 U	240 J	960	23 U	350 J	18 U	2200 J	150 J
Total Confident Conc. SVOC	500,000	965	20,162	50	6,657	269,350	1,082	189,983	6,258	***1,003,050***	29,095
Carcinogenic SVOCs in BaP Equivalents		56.5	2,529.9	ND	940.5	4,044	ND	2,952	ND	18,300	573.8

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-50	SB-50	SB-50	SB-50	SB-51	SB-51	SB-51	SB-51	SB-52	SB-52
Sample Interval (Feet bgs)		2 to 3	8 to 10	21 to 23	26 to 27	6 to 7	14 to 15	21 to 22	32 to 33	11 to 13	27 to 29
Sampling Date		4/25/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	5/1/04	5/1/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	180 U	37 U	38 U	49 U	1900 U	390 U	790 U	46 U	44 U	370 U
Phenol	30 or MDL	77 U	16 U	16 U	21 U	820 U	170 U	340 U	19 U	19 U	160 U
bis(2-Chloroethyl)ether	NC	91 U	19 U	19 U	25 U	970 U	200 U	400 U	23 U	22 U	190 U
2-Chlorophenol	800	80 U	16 U	17 U	22 U	850 U	170 U	350 U	20 U	19 U	170 U
2-Methylphenol	100 or MDL	120 U	24 U	24 U	32 U	1200 U	250 U	510 U	29 U	28 U	240 U
2,2-oxybis(1-Chloropropane)	NC	100 U	20 U	21 U	27 U	1100 U	210 U	440 U	25 U	24 U	210 U
Acetophenone	NC	97 U	20 U	20 U	26 U	1000 U	210 U	420 U	24 U	23 U	200 U
3+4-Methylphenols	900	85 U	17 U	18 U	23 U	910 U	180 U	370 U	21 U	21 U	180 U
N-Nitroso-di-n-propylamine	NC	82 U	17 U	17 U	22 U	870 U	170 U	360 U	21 U	20 U	170 U
Hexachloroethane	NC	89 U	18 U	18 U	24 U	940 U	190 U	380 U	22 U	21 U	180 U
Nitrobenzene	200 or MDL	94 U	19 U	19 U	25 U	1000 U	200 U	410 U	24 U	23 U	190 U
Isophorone	4,400	69 U	14 U	14 U	19 U	730 U	150 U	300 U	17 U	17 U	140 U
2-Nitrophenol	330 or MDL	75 U	15 U	15 U	20 U	790 U	160 U	320 U	19 U	18 U	150 U
2,4-Dimethylphenol	NC	100 U	20 U	21 U	27 U	1100 U	210 U	440 U	25 U	24 U	210 U
bis(2-Chloroethoxy)methane	NC	85 U	17 U	18 U	23 U	900 U	180 U	370 U	21 U	20 U	170 U
2,4-Dichlorophenol	400	65 U	13 U	13 U	18 U	690 U	140 U	280 U	16 U	16 U	130 U
Naphthalene	13,000	360 J	8.2 U	1000 J	11 U	***16000*** J	***160000*** DJ	***820000*** DJ	4300 D	840	***250000*** D
4-Chloroaniline	220 or MDL	690 U	140 U	140 U	190 U	7300 U	1500 U	3000 U	170 U	170 U	1400 U
Hexachlorobutadiene	NC	65 U	13 U	13 U	18 U	690 U	140 U	280 U	16 U	16 U	130 U
Caprolatam	NC	68 U	14 U	14 U	19 U	730 U	150 U	300 U	17 U	17 U	140 U
4-Chloro-3-methylphenol	240 or MDL	55 U	11 U	11 U	15 U	580 U	120 U	240 U	14 U	13 U	110 U
2-Methylnaphthalene	36,400	210 J	6.5 U	640 J	8.6 U	19000 J	***64000*** DJ	***170000*** DJ	2200 J	110 J	***58000*** D
Hexachlorocyclopentadiene	NC	47 UJ	9.5 UJ	9.6 UJ	13 UJ	500 UJ	99 UJ	200 UJ	12 UJ	11 UJ	96 UJ
2,4,6-Trichlorophenol	NC	67 U	14 U	14 U	18 U	720 U	140 U	290 U	17 U	16 U	140 U
2,4,5-Trichlorophenol	100	120 U	25 U	25 U	33 U	1300 U	260 U	530 U	31 U	30 U	250 U
1,1-Biphenyl	NC	200 J	11 U	74 J	15 U	580 U	8000	32000	14 U	13 U	14000
2-Chloronaphthalene	NC	39 U	7.9 U	8 U	10 U	410 U	83 U	170 U	9.7 U	9.3 U	80 U
2-Nitroaniline	430 or MDL	67 U	14 U	14 U	18 U	720 U	140 U	290 U	17 U	16 U	140 U
Dimethylphthalate	2,000	44 U	9 U	9.2 U	12 U	470 U	95 U	190 U	11 U	11 U	91 U
Acenaphthylene	41,000	1400 J	11 U	210 J	15 U	590 U	6800	22000	170 J	45 J	10000
2,6-Dinitrotoluene	1,000	79 U	16 U	16 U	21 U	840 U	170 U	340 U	20 U	19 U	160 U
3-Nitroaniline	500 or MDL	300 U	61 U	62 U	81 U	3200 U	640 U	1300 U	75 U	72 U	620 U
Acenaphthene	50,000	470 J	8.3 U	230 J	11 U	2500 J	22000	***60000*** D	550	410 J	13000
2,4-Dinitrophenol	200 or MDL	82 U	17 U	17 U	22 U	870 U	170 U	360 U	21 U	20 U	170 UJ
4-Nitrophenol	100 or MDL	180 U	37 U	37 U	49 U	1900 U	390 U	790 U	46 U	44 U	370 U
Dibenzofuran	6,200	1400 J	12 U	160 J	17 U	6200 J	***20000***	***50000*** D	610	98 J	***27000*** JD
2,4-Dinitrotoluene	1,000	37 U	7.5 U	7.7 U	10 U	390 U	79 U	160 U	9.3 U	8.9 U	76 U
Diethylphthalate	7,100	58 U	12 U	12 U	16 U	620 U	120 U	250 U	15 U	14 U	120 U
4-Chlorophenyl-phenylether	NC	46 U	9.3 U	9.5 U	12 U	490 U	98 U	200 U	12 U	11 U	95 U
Fluorene	50,000	2200	11 U	530 J	14 U	9400 J	22000 DJ	***100000*** DJ	1300 J	850	48000 D
4-Nitroaniline	NC	150 U	30 U	30 U	39 U	1500 U	310 U	630 U	37 U	35 U	300 U
4,6-Dinitro-2-methylphenol	NC	110 U	22 U	22 U	29 U	1100 U	230 U	470 U	27 U	26 U	220 UJ
N-Nitrosodiphenylamine	NC	47 U	9.6 U	9.7 U	13 U	500 U	100 U	200 U	12 U	11 U	97 U
4-Bromophenyl-phenylether	NC	49 U	9.9 U	10 U	13 U	520 U	100 U	210 U	12 U	12 U	100 U
Hexachlorobenzene	410	35 U	7.1 U	7.2 U	9.4 U	370 U	74 U	150 U	8.7 U	8.4 U	72 U
Atrazine	NC	57 U	12 U	12 U	15 U	600 U	120 U	250 U	14 U	14 U	120 U
Pentachlorophenol	1000 or MDL	58 U	12 U	12 U	16 U	610 U	120 U	250 U	15 U	14 U	120 U
Phenanthrene	50,000	11000	45 J	2300	93 J	***57000***	***97000*** D	***250000*** D	3500 D	400 J	***110000*** D
Anthracene	50,000	3300	9 U	420	12 U	9000 J	21000	***57000*** D	890	98 J	23000
Carbazole	NC	1000 J	8.3 U	90 J	11 U	2800 J	9000 J	34000 J	330 J	67 J	14000
Di-n-butylphthalate	8,100	25 U	5 U	5.1 U	6.7 U	260 U	53 U	110 U	6.2 U	56 J	51 U
Fluoranthene	50,000	14000 J	5.2 U	2300 D	77 J	37000	33000 D	***150000*** D	2600	200 J	***51000*** D

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		SB-50	SB-50	SB-50	SB-50	SB-51	SB-51	SB-51	SB-51	SB-52	SB-52
Sample Interval (Feet bgs)		2 to 3	8 to 10	21 to 23	26 to 27	6 to 7	14 to 15	21 to 22	32 to 33	11 to 13	27 to 29
Sampling Date		4/25/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	5/1/04	5/1/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Pyrene	50,000	13000	77 J	2500	75 J	30000	30000 DJ	***130000*** D	2100	250 J	***55000*** D
Butylbenzylphthalate	50,000	62 U	13 U	13 U	17 U	660 U	130 U	270 U	16 U	15 U	130 U
3,3-Dichlorobenzidine	NA	300 U	61 U	62 U	81 U	3200 U	640 U	1300 U	75 U	72 U	610 U
Benzo(a)anthracene	224 or MDL	***5900***	5.7 U	***1100***	7.6 U	***16000*** J	***16000***	***56000***	***960***	220 J	***31000***
Chrysene	400	***5200***	12 U	***1000***	16 U	***14000*** J	***15000***	***54000***	***810***	200 J	***24000***
bis(2-Ethylhexyl)phthalate	50,000	43 U	190 J	600	300 J	450 U	490 J	850 J	440 J	330 J	510 J
Di-n-octyl phthalate	50,000	44 U	9 U	9.2 U	12 U	470 U	95 U	190 U	11 U	11 U	91 U
Benzo(b)fluoranthene	1,100	***7900***	20 U	880	27 U	***11000*** J	***11000***	***46000***	600	280 J	***30000***
Benzo(k)fluoranthene	1,100	***2300***	13 U	560 J	17 U	***8900*** J	***9400*** J	***26000*** J	350 J	110 J	***8400***
Benzo(a)pyrene	61 or MDL	***6300***	6.5 U	***920***	8.6 U	***14000*** J	***13000***	***45000***	***700***	***290*** J	***23000***
Indeno(1,2,3-cd)pyrene	3,200	1900 J	9.1 U	110 J	12 U	***4000*** J	980 J	2800 J	160 J	91 J	2100 J
Dibenz(a,h)anthracene	14 or MDL	***760*** J	11 U	11 U	15 U	580 U	***420*** J	***1200*** J	14 U	13 U	***1600*** J
Benzo(g,h,i)perylene	50,000	2200	16 U	170 J	22 U	4500 J	2000 J	5900 J	210 J	140 J	3500 UJ
Total Confident Conc. SVOC	500,000	81,000	312	15,794	545	261,300	***561,090***	***2,112,750***	22,780	5,085	***797,110***
Carcinogenic SVOCs in BaP Equivalents		8,705	ND	1,144.6	ND	17,329	16,462	57,480	883.6	352.2	31,234

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location Sample Interval (Feet bgs) Sampling Date Units Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	**SB-52** 33 to 35 5/1/04 ug/Kg	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedanc	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	980 U	61	0	0%	0	0%	< 36	< 1,900
Phenol	30 or MDL	420 U	61	1	2%	1	2%	< 15	930
bis(2-Chloroethyl)ether	NC	490 U	61	0	0%	0	0%	< 18	< 970
2-Chlorophenol	800	430 U	61	0	0%	0	0%	< 16	< 850
2-Methylphenol	100 or MDL	630 U	61	1	2%	1	2%	< 23	1,200
2,2-oxybis(1-Chloropropane)	NC	540 U	61	0	0%	0	0%	< 20	< 1,100
Acetophenone	NC	530 U	61	0	0%	0	0%	< 19	< 1,000
3+4-Methylphenols	900	460 U	61	3	5%	0	0%	< 17	< 910
N-Nitroso-di-n-propylamine	NC	440 U	61	1	2%	0	0%	< 16	870
Hexachloroethane	NC	480 U	61	1	2%	0	0%	< 17	940
Nitrobenzene	200 or MDL	510 U	61	0	0%	0	0%	< 19	< 1,000
Isophorone	4,400	370 U	61	0	0%	0	0%	< 14	< 730
2-Nitrophenol	330 or MDL	400 U	61	0	0%	0	0%	< 15	< 790
2,4-Dimethylphenol	NC	540 U	61	11	18%	0	0%	< 20	3,700
bis(2-Chloroethoxy)methane	NC	460 U	61	0	0%	0	0%	< 17	< 900
2,4-Dichlorophenol	400	350 U	61	0	0%	0	0%	< 13	< 690
Naphthalene	13,000	***380000*** D	61	49	80%	14	23%	< 8.2	820,000
4-Chloroaniline	220 or MDL	3700 U	61	1	2%	1	2%	< 140	26,000
Hexachlorobutadiene	NC	350 U	61	0	0%	0	0%	< 13	< 690
Caprolatam	NC	370 U	61	0	0%	0	0%	< 14	< 730
4-Chloro-3-methylphenol	240 or MDL	300 U	61	0	0%	0	0%	< 11	< 580
2-Methylnaphthalene	36,400	***94000*** D	61	42	69%	5	8%	< 6.5	170,000
Hexachlorocyclopentadiene	NC	250 UJ	61	0	0%	0	0%	< 9.2	< 500
2,4,6-Trichlorophenol	NC	360 U	61	0	0%	0	0%	< 13	< 720
2,4,5-Trichlorophenol	100	660 U	61	0	0%	0	0%	< 24	< 1,300
1,1-Biphenyl	NC	45000	61	28	46%	0	0%	< 11	45,000
2-Chloronaphthalene	NC	210 U	61	0	0%	0	0%	< 7.6	< 410
2-Nitroaniline	430 or MDL	360 U	61	1	2%	0	0%	< 13	< 720
Dimethylphthalate	2,000	240 U	61	0	0%	0	0%	< 8.7	< 470
Acenaphthylene	41,000	29000	61	37	61%	0	0%	< 11	29,000
2,6-Dinitrotoluene	1,000	430 U	61	0	0%	0	0%	< 16	< 840
3-Nitroaniline	500 or MDL	1600 U	61	0	0%	0	0%	< 59	< 3,200
Acenaphthene	50,000	38000	61	42	69%	1	2%	< 8.2	60,000
2,4-Dinitrophenol	200 or MDL	440 U	61	0	0%	0	0%	< 16	< 870
4-Nitrophenol	100 or MDL	980 U	61	1	2%	1	2%	< 36	< 1,900
Dibenzofuran	6,200	***43000*** JD	61	36	59%	7	11%	< 12	50,000
2,4-Dinitrotoluene	1,000	200 U	61	0	0%	0	0%	< 7.3	< 390
Diethylphthalate	7,100	320 U	61	2	3%	0	0%	< 12	620
4-Chlorophenyl-phenylether	NC	250 U	61	0	0%	0	0%	< 9.1	< 490
Fluorene	50,000	***71000*** D	61	44	72%	2	3%	< 10	100,000
4-Nitroaniline	NC	790 U	61	0	0%	0	0%	< 29	< 1,500
4,6-Dinitro-2-methylphenol	NC	580 U	61	0	0%	0	0%	< 21	< 1,100
N-Nitrosodiphenylamine	NC	260 U	61	0	0%	0	0%	< 9.3	< 500
4-Bromophenyl-phenylether	NC	260 U	61	0	0%	0	0%	< 9.6	< 520
Hexachlorobenzene	410	190 U	61	0	0%	0	0%	< 6.9	< 370
Atrazine	NC	310 U	61	0	0%	0	0%	< 11	< 600
Pentachlorophenol	1000 or MDL	310 U	61	0	0%	0	0%	< 11	< 610
Phenanthrene	50,000	***170000*** D	61	56	92%	7	11%	< 8.6	250,000
Anthracene	50,000	***70000***	61	44	72%	2	3%	< 8.7	70,000
Carbazole	NC	41000	61	35	57%	0	0%	< 8.1	41,000
Di-n-butylphthalate	8,100	130 U	61	6	10%	0	0%	< 4.9	< 260
Fluoranthene	50,000	***80000*** D	61	55	90%	3	5%	< 5.2	150,000

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-18

Sample Location		**SB-52**							
Sample Interval (Feet bgs)		33 to 35							
Sampling Date		5/1/04							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedanc	Minimum Reported Concentration	Maximum Reported Concentration
Pyrene	50,000	***83000*** D	61	56	92%	3	5%	< 6.8	130,000
Butylbenzylphthalate	50,000	340 U	61	5	8%	0	0%	< 12	< 660
3,3-Dichlorobenzidine	NA	1600 U	61	0	0%	0	0%	< 59	< 3,200
Benzo(a)anthracene	224 or MDL	***40000*** JD	61	48	79%	37	61%	< 5.6	56,000
Chrysene	400	***72000***	61	46	75%	33	54%	< 12	72,000
bis(2-Ethylhexyl)phthalate	50,000	230 U	61	49	80%	0	0%	< 9.1	2,100
Di-n-octyl phthalate	50,000	240 U	61	0	0%	0	0%	< 8.7	< 470
Benzo(b)fluoranthene	1,100	***24000*** JD	61	46	75%	23	38%	< 20	46,000
Benzo(k)fluoranthene	1,100	***25000***	61	43	70%	19	31%	< 13	26,000
Benzo(a)pyrene	61 or MDL	***66000***	61	47	77%	44	72%	< 6.4	66,000
Indeno(1,2,3-cd)pyrene	3,200	***6000*** J	61	39	64%	5	8%	< 8.9	6,000
Dibenz(a,h)anthracene	14 or MDL	***4600*** J	61	22	36%	20	33%	< 11	4,600
Benzo(g,h,i)perylene	50,000	10000	61	40	66%	0	0%	< 16	10,000
Total Confident Conc. SVOC	500,000	***1,391,600***							
Carcinogenic SVOCs in BaP Equivalents		78,570							

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		TP-3	TP-6	SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		7.5 to 7.5	9.5 to 9.5	5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	41 to 43	49 to 51
Sampling Date		05/01/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.65 U	1.3 J	0.64 U	0.72 U	0.62 U	0.68 U	0.77 U	0.64 U	0.66 U	0.68 U
Arsenic	12	4.8	3.8	1.8	11.1	1.3	1.1 J	5.7	0.98 J	0.89 J	0.46 J
Beryllium	600	0.41 J	0.41 J	0.39 J	0.47 J	0.37 J	0.25 J	0.45 J	0.26 J	0.31 J	0.16 J
Cadmium	1	0.29 J	0.43 J	0.29 J	0.4 J	0.25 J	0.16 J	0.46 J	0.18 J	0.19 J	0.11 J
Chromium	40	10.8	14.3	14.1	9.2	19.5	10.8	19.1	10.5	11	9.3
Copper	50	48.6	26.4	15	39.2	18.4	11.2	13.8	17.3	15.9	10.3
Lead	500	305	***677***	25.6	482	20	6.9	25.9	4.6	3.9	3.6
Mercury	0.1	***0.71***	***0.61***	0.06	***0.14***	0.02	0.02	0.06	0.01	0.01	0.01
Nickel	25	14.2	13.8	11.9	12.7	13.7	9.9	16.2	12.3	11.3	9.3
Selenium	3.9	0.36 U	0.35 U	0.36 U	0.4 U	0.35 U	0.38 U	0.43 U	0.35 U	0.37 U	0.38 U
Silver	B	0.12 U	0.12 U	0.12 U	0.13 U	0.17 J	0.13 U	0.14 U	0.12 U	0.12 U	0.13 U
Thallium	B	0.38 U	0.37 U	0.87 J	0.42 U	0.37 U	0.51 J	0.45 U	0.37 U	0.39 U	0.4 U
Zinc	50	***56.4***	***57.4***	33.8	***51.3***	33.8	16.9	48.9	20.5	21.1	16.2

Sample Location		TP-3	TP-6	SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		7.5 to 7.5	9.5 to 9.5	5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	41 to 43	49 to 51
Sampling Date		5/1/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04	5/2/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	1.42	0.566 U	0.568 U	13.62	3.23	1.12	0.985	0.565 U	0.583 U	0.608 U
Amenable Cyanide	NC	0.69	0.57 U	0.57 U	0.61 U	0.66	0.61 U	0.69 U	0.56 U	0.58 U	0.61 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		SB-21	SB-21	SB-21	SB-22	SB-22	SB-22	SB-22	SB-22	SB-23	SB-23
Sample Interval (Feet bgs)		11 to 13	15 to 17	21 to 23	5 to 7	11 to 13	15 to 17	22 to 23	26 to 27	9 to 10	15 to 16
Sampling Date		05/04/04	05/04/04	05/04/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.63 U	0.68 U	0.83 U	0.613 U	0.639 U	0.649 U	0.844 U	0.912 U	1.64 J	0.649 U
Arsenic	12	1.5	0.8 J	1.3 J	***37.4***	1.65	1.42	7.4	7.94	4.92	1.14 J
Beryllium	600	0.16 J	0.29 J	0.44 J	0.508 J	0.439 J	0.287 J	0.528 J	0.502 J	0.321 J	0.297 J
Cadmium	1	0.08 J	0.08 J	0.23 J	0.832	0.059 J	0.053 U	0.357 J	0.293 J	0.303 J	0.083 J
Chromium	40	9.4	5.7	5.6	14.5 J	17 J	10.9 J	19.9 J	19.7 J	22.3 J	12.2 J
Copper	50	9.3	12.4	3.7	35.6	18.3	13.4	18.2	15.4	35.5	14.4
Lead	500	14.8	8.2	4	154	20.8	12.9	21.9	14.2	285	12
Mercury	0.1	***0.11***	0.02	0.03	***0.16*** J	0.02 J	0.05 J	0.04 J	0.03 J	***0.32*** J	0.06 J
Nickel	25	7.5	5.3	7.6	17.9 J	13.9	11.1	19.1	19.3	10.6	11
Selenium	3.9	0.47 J	0.38 U	0.46 U	0.447 J	0.355 UJ	0.361 UJ	0.609 J	0.859 J	0.4 J	0.361 UJ
Silver	B	0.12 U	0.13 U	0.15 U	0.569 J	0.171 J	0.121 U	0.801 J	0.544 J	0.155 J	0.362 J
Thallium	B	0.37 U	0.4 U	0.49 U	0.48 J	0.375 U	0.706 J	0.495 U	0.535 U	0.38 U	0.38 U
Zinc	50	19.6	16.4	37.8	***136*** J	26.3 J	21.9 J	***53.6*** J	***55.2*** J	***84.9*** J	30 J

Sample Location		SB-21	SB-21	SB-21	SB-22	SB-22	SB-22	SB-22	SB-22	SB-23	SB-23
Sample Interval (Feet bgs)		11 to 13	15 to 17	21 to 23	5 to 7	11 to 13	15 to 17	22 to 23	26 to 27	9 to 10	15 to 16
Sampling Date		5/4/04	5/4/04	5/4/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	6.45	0.602 U	0.75 U	0.545 U	0.568 U	0.576 U	0.75 U	0.818 U	0.575 U	0.588 U
Amenable Cyanide	NC	5.8	0.6 U	0.75 U	0.54 U	0.57 U	0.58 U	0.75 U	0.82 U	0.58 U	0.59 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		SB-23	SB-23	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-25
Sample Interval (Feet bgs)		17 to 18	24 to 25	5 to 7	7 to 9	25 to 27	33 to 35	33 to 35	53 to 55	82 to 84	7 to 9
Sampling Date		4/27/04	4/27/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	08/30/04	4/26/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.937 U	0.849 U	0.649 U	0.681 U	0.683 U	0.842 U	0.843 U	0.648 U	0.658 U	0.603 U
Arsenic	12	10.8	9.22	***12.9***	9.4	3.65	10	7.85	0.753 J	0.599 J	4.1
Beryllium	600	0.684 J	0.561 J	0.56 J	0.46 J	0.295 J	0.647 J	0.488 J	0.162 J	0.216 J	0.148 J
Cadmium	1	0.424 J	0.348 J	0.324 J	0.166 J	0.101 J	0.404 J	0.259 J	0.053 U	0.054 U	0.267 J
Chromium	40	23.8 J	22.2 J	25 J	12.9 J	16.2 J	25.3	20.5 J	15.5 J	6.89	12 J
Copper	50	23.4	14.7	33.4	25.5	18.4	15.7	13.5	11.1	9.13	37.9
Lead	500	40.1	13.9	271	***577***	33.6	17.4	12.4	3.75	3.28	32.4
Mercury	0.1	***0.14*** J	0.04 J	***0.42*** J	***0.24*** J	0.03 J	0.03 J	0.04 J	0.02 J	0.01 U	0.06 J
Nickel	25	23	20.8	20.7 J	21 J	13.7 J	23.9 J	19.5 J	7.41 J	7.94	12 J
Selenium	3.9	0.546 J	0.472 UJ	0.681 J	1.16 J	0.38 UJ	0.468 UJ	0.855 J	0.36 UJ	0.623 J	1.03 J
Silver	B	0.666 J	0.511 J	0.946 J	0.628 J	0.176 J	0.782 J	0.219 J	0.121 U	0.123 U	0.156 J
Thallium	B	0.549 U	0.498 U	0.38 U	0.399 U	0.4 U	0.493 U	0.494 U	0.38 U	0.386 U	0.354 U
Zinc	50	***65.1*** J	***58.6*** J	***55.6*** J	36.4 J	30.4 J	***65.9*** J	***52.2*** J	11.9 J	14	***87.6*** J

Sample Location		SB-23	SB-23	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-24	SB-25
Sample Interval (Feet bgs)		17 to 18	24 to 25	5 to 7	7 to 9	25 to 27	33 to 35	33 to 35	53 to 55	82 to 84	7 to 9
Sampling Date		4/27/04	4/27/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	4/24/04	08/30/04	4/26/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.832 U	0.754 U	0.576 U	0.611 U	0.607 U	0.747 U	0.763 U	0.575 U	0.58 U	0.536 U
Amenable Cyanide	NC	0.83 U	0.75 U	0.58 U	0.61 U	0.61 U	0.61 U	0.61 U	0.75 U	0.76 U	0.58 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		SB-25	SB-25	SB-25	SB-26	SB-26	SB-26	SB-27	SB-27	SB-27	SB-27
Sample Interval (Feet bgs)		20 to 22	32 to 33	33 to 34	6.5 to 7	31 to 33	35 to 37	5 to 5.5	5.9 to 6.3	40.9 to 41.3	44.5 to 45
Sampling Date		4/26/04	4/26/04	4/26/04	07/08/04	07/26/04	07/27/04	07/09/04	07/22/04	07/22/04	07/22/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.632 U	0.734 U	0.907 U	0.688 U	0.659 U	0.849 U	0.86 J	0.725 U	0.669 U	0.843 U
Arsenic	12	1.76	1.04 J	7.97	1.79	10.6	8.63	7.14	5.45	4.45	9.58
Beryllium	600	0.321 J	0.186 J	0.517 J	0.397 J	0.422 J	0.83	0.391 J	0.335 J	0.416 J	0.738 J
Cadmium	1	0.065 J	0.06 U	0.288 J	0.295 J	0.698	***1.8***	0.516 J	0.986	***1.66***	***2.02***
Chromium	40	14.7 J	10.5 J	19.6 J	12.1	11.5	27.3	18.9	11.4	9.6	23.2
Copper	50	20.4	28.5	17	15.3	***51***	12.7	***74***	28.1	22.2	18.6
Lead	500	10.2	58.4	44.6	42.5	222	15.1	327	315	109	64.4
Mercury	0.1	0.03 J	0.03 J	0.1 J	***0.16*** J	***0.34***	0.02	***41.3*** J	***0.35***	***0.2***	***0.2***
Nickel	25	13.1 J	10.2 J	20.3 J	14.2	13.1	21.1	17.7	12	7.6	22.2
Selenium	3.9	0.351 UJ	0.408 UJ	0.591 J	1.14 J	1.24	2.48	0.958 J	1.18 J	0.94 J	2.33
Silver	B	0.521 J	0.137 U	0.467 J	0.43 J	1.01 J	2.04	1.14	0.328 J	0.359 J	0.32 J
Thallium	B	0.37 U	0.43 U	0.531 U	0.403 J	0.387 U	0.498 U	0.369 J	0.425 U	0.392 U	0.494 U
Zinc	50	22.9 J	19.6 J	***56.2*** J	38	***58.5***	***66.6***	***218***	***551***	***65.1***	***78.9***

Sample Location		SB-25	SB-25	SB-25	SB-26	SB-26	SB-26	SB-27	SB-27	SB-27	SB-27
Sample Interval (Feet bgs)		20 to 22	32 to 33	33 to 34	6.5 to 7	31 to 33	35 to 37	5 to 5.5	5.9 to 6.3	40.9 to 41.3	44.5 to 45
Sampling Date		4/26/04	4/26/04	4/26/04	07/08/04	07/26/04	07/27/04	07/09/04	07/22/04	07/22/04	07/22/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.561 U	0.652 U	0.805 U	0.611 U	4	1.58	0.57 U	0.64 U	0.59 U	0.75 U
Amenable Cyanide	NC	0.58 U	0.54 U	0.56 U	0.65 U	0.81 U	0.61 U	0.6 U	0.75 U	0.57 U	0.64 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		SB-47	SB-47	SB-47	SB-48	SB-48	SB-48	SB-49	SB-49	SB-49	SB-49
Sample Interval (Feet bgs)		7 to 9	13 to 15	17 to 19	7 to 9	15 to 16	19 to 21	10 to 12	14 to 15	17 to 18	23 to 24
Sampling Date		05/03/04	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04	4/28/04	4/28/04	4/28/04	4/28/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.76 J	2.9 J	0.89 J	0.67 U	0.88 J	0.91 U	0.678 U	0.697 U	0.673 U	0.884 U
Arsenic	12	2.9	2.7	9.6	1.7	6	8	2.54	2.88	2.95	7.75
Beryllium	600	0.53 J	0.32 J	0.56 J	0.36 J	0.68 J	0.49 J	0.385 J	0.441 J	0.422 J	0.524 J
Cadmium	1	0.33 J	0.33 J	0.74	0.28 J	0.66 J	0.57 J	0.086 J	0.116 J	0.102 J	0.284 J
Chromium	40	19.1	13.9	20.3	10.9	20.8	17.1	13.1 J	15.2 J	13.4 J	18.7 J
Copper	50	23.3	19	15	14	25.3	14.1	14.4	14.8	13.6	14.7
Lead	500	8.5	24	7.1	48	27.7	8	10.8	14.1	17.6	15.9
Mercury	0.1	0.02	0.03	0.02	***0.14***	0.04	0.04	0.03 J	0.05 J	0.04 J	0.06 J
Nickel	25	16.6	11.2	20	10.6	19.5	16.3	11.5	12.8	10.9	18.3
Selenium	3.9	0.35 U	0.56 J	0.46 U	0.37 U	0.44 U	0.5 U	0.377 UJ	0.387 UJ	0.413 J	0.491 UJ
Silver	B	0.12 U	0.36 J	0.15 U	0.13 U	0.15 U	0.17 U	0.252 J	0.564 J	0.621 J	0.509 J
Thallium	B	0.37 U	0.4 U	0.48 U	0.39 U	0.46 U	0.53 U	0.397 U	0.408 U	0.395 U	0.518 U
Zinc	50	24	25.4	***57.5***	30	***59.5***	49.8	28.6 J	30.9 J	29.9 J	***53.9*** J

Sample Location		SB-47	SB-47	SB-47	SB-48	SB-48	SB-48	SB-49	SB-49	SB-49	SB-49
Sample Interval (Feet bgs)		7 to 9	13 to 15	17 to 19	7 to 9	15 to 16	19 to 21	10 to 12	14 to 15	17 to 18	23 to 24
Sampling Date		5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	5/3/04	4/28/04	4/28/04	4/28/04	4/28/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.556 U	0.6 U	0.729 U	0.604 U	0.699 U	0.806 U	0.608 U	0.619 U	0.598 U	0.785 U
Amenable Cyanide	NC	0.56 U	0.6 U	0.73 U	0.6 U	0.7 U	0.81 U	0.61 U	0.62 U	0.6 U	0.78 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		SB-50	SB-50	SB-50	SB-50	SB-51	SB-51	SB-51	SB-51	SB-52	SB-52
Sample Interval (Feet bgs)		2 to 3	8 to 10	21 to 23	26 to 27	6 to 7	14 to 15	21 to 22	32 to 33	11 to 13	27 to 29
Sampling Date		4/25/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	05/01/04	05/01/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	0.66 J	0.646 U	0.656 U	0.863 U	0.661 U	0.678 U	0.687 U	0.8 U	2.3 J	0.66 U
Arsenic	12	10.1	2.24	1.84	6.35	6.53	1.89	1.71	6.33	2	1.1 J
Beryllium	600	0.368 J	0.312 J	0.334 J	0.416 J	0.398 J	0.204 J	0.175 J	0.425 J	0.41 J	0.24 J
Cadmium	1	0.307 J	0.053 U	0.055 J	0.183 J	0.879	0.071 J	0.092 J	0.23 J	0.3 J	0.19 J
Chromium	40	15 J	11.4 J	22.5 J	16.8 J	7.69 J	9.47 J	7.8 J	17.1 J	11.9	10.4
Copper	50	46	***86.9***	20.7	11.3	31.6	32.5	15.4	11.8	22.2	14
Lead	500	280	13.3	12.9	11.2	72.7	12.4	11.1	11.2	112	41
Mercury	0.1	***0.85*** J	0.03 J	0.02 J	0.03 J	***0.27*** J	0.04 J	0.04 J	0.05 J	***0.22***	0.04 J
Nickel	25	12.5 J	10.4	14.4	17.1	8.67	7.38	7.98	16.1	13.4	10.4
Selenium	3.9	0.797 J	0.564 J	0.365 UJ	0.48 UJ	1.44 J	0.377 UJ	0.491 J	0.445 UJ	0.43 U	0.37 U
Silver	B	0.256 J	0.224 J	0.235 J	0.495 J	0.575 J	0.127 U	0.194 J	0.668 J	0.14 U	0.12 U
Thallium	B	0.373 U	0.575 J	0.385 U	0.506 U	0.527 J	0.398 U	0.403 U	0.469 U	0.84 J	0.39 U
Zinc	50	***118*** J	20.4 J	26.6 J	47.3 J	44.8 J	16.2 J	16.3 J	47.3 J	36.6	20.4

Sample Location		SB-50	SB-50	SB-50	SB-50	SB-51	SB-51	SB-51	SB-51	SB-52	SB-52
Sample Interval (Feet bgs)		2 to 3	8 to 10	21 to 23	26 to 27	6 to 7	14 to 15	21 to 22	32 to 33	11 to 13	27 to 29
Sampling Date		4/25/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	4/27/04	5/1/04	5/1/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.571 U	0.574 U	0.583 U	0.767 U	0.605 U	0.602 U	3.23	0.71 U	0.687 U	0.586 U
Amenable Cyanide	NC	0.57 U	0.57 U	0.58 U	0.77 U	0.6 U	0.6 U	0.61 U	0.71 U	0.69 U	0.59 U

Summary of Metals and Cyanide in Subsurface Soil - Area 3
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-19

Sample Location		**SB-52**								
Sample Interval (Feet bgs)		33 to 35								
Sampling Date		05/01/04								
Units		mg/Kg								
PP Metals	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	0.87 U	61	9	15%	0	0%	< 0.603	2.9
Arsenic	12	***12.1***	61	61	100%	3	5%	0.46	37.4
Beryllium	600	0.73 J	61	61	100%	0	0%	0.148	0.83
Cadmium	1	0.82	61	56	92%	3	5%	< 0.053	2.02
Chromium	40	27.5	61	61	100%	0	0%	5.6	27.5
Copper	50	16.9	61	61	100%	3	5%	3.7	86.9
Lead	500	9.8	61	61	100%	2	3%	3.28	677
Mercury	0.1	0.03	61	60	98%	19	31%	< 0.01	41.3
Nickel	25	***26.6***	61	61	100%	1	2%	5.3	26.6
Selenium	3.9	0.48 U	61	25	41%	0	0%	< 0.35	2.48
Silver	B	0.16 U	61	36	59%	0	0%	< 0.12	2.04
Thallium	B	0.51 U	61	9	15%	0	0%	< 0.354	0.87
Zinc	50	***71.3***	61	61	100%	25	41%	11.9	551

Sample Location		**SB-52**							
Sample Interval (Feet bgs)		33 to 35							
Sampling Date		5/1/04							
Units		mg/Kg							
	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	0.769 U	61	9	15%	0	0%	< 0.536	13.62
Amenable Cyanide	NC	0.77 U	61	3	5%	0	0%	< 0.54	5.80

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 3
Former West 18th Street MGP Site
Consolidated Edison Company of New York, Inc.
Table 4-20

Sample Location		SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	49 to 51
Sampling Date		05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Pesticides (ug/Kg)	TAGM RSCO							
alpha-BHC	110	1.3 UJ	1.9 UJ	1.2 UJ	1.4 UJ	1.5 UJ	1.3 UJ	1.4 UJ
beta-BHC	200	1.3 UJ	1.9 UJ	1.2 UJ	1.4 UJ	1.5 UJ	1.3 UJ	1.4 UJ
delta-BHC	300	1 UJ	1.5 UJ	0.97 UJ	1.1 UJ	1.2 UJ	1 UJ	1.1 UJ
gamma-BHC	60	1.4 UJ	2.1 UJ	1.3 UJ	1.5 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Heptachlor	100	1.5 UJ	2.2 UJ	1.4 UJ	1.6 UJ	1.8 UJ	1.5 UJ	1.6 UJ
Aldrin	41	1.2 UJ	1.8 UJ	1.1 UJ	1.3 UJ	1.4 UJ	1.2 UJ	1.3 UJ
Heptachlor epoxide	20	1.4 UJ	2.2 UJ	1.4 UJ	1.5 UJ	1.7 UJ	1.5 UJ	1.6 UJ
Endosulfan I	900	1.7 UJ	2.5 UJ	1.6 UJ	1.8 UJ	1.9 UJ	1.7 UJ	1.8 UJ
Dieldrin	44	1.1 UJ	1.7 UJ	1.1 UJ	1.2 UJ	1.3 UJ	1.2 UJ	1.2 UJ
4,4-DDE	2,100	1.5 UJ	2.2 UJ	1.4 UJ	1.6 UJ	1.7 UJ	1.5 UJ	1.6 UJ
Endrin	100	2.1 UJ	3.1 UJ	2 UJ	2.2 UJ	2.4 UJ	2.1 UJ	2.2 UJ
Endosulfan II	900	1.5 UJ	2.2 UJ	1.4 UJ	1.6 UJ	1.8 UJ	1.5 UJ	1.6 UJ
4,4-DDD	2,900	1.2 UJ	1.7 UJ	1.1 UJ	1.2 UJ	1.4 UJ	1.2 UJ	1.2 UJ
Endosulfan Sulfate	NC	1.7 UJ	2.5 UJ	1.6 UJ	1.8 UJ	2 UJ	1.7 UJ	1.8 UJ
4,4-DDT	2100	2.1 UJ	3.1 UJ	2 UJ	2.2 UJ	2.5 UJ	2.1 UJ	2.3 UJ
Methoxychlor	NC	1.4 UJ	2.1 UJ	1.4 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.5 UJ
Endrin ketone	N/A	1.5 UJ	2.2 UJ	1.4 UJ	1.6 UJ	1.7 UJ	1.5 UJ	1.6 UJ
Endrin aldehyde	NC	1.7 UJ	2.6 UJ	1.7 UJ	1.9 UJ	2 UJ	1.8 UJ	1.9 UJ
alpha-Chlordane	NC	1.7 UJ	2.5 UJ	1.6 UJ	1.8 UJ	2 UJ	1.7 UJ	1.8 UJ
gamma-Chlordane	540	1.7 UJ	2.5 UJ	1.6 UJ	1.8 UJ	2 UJ	1.7 UJ	1.8 UJ
Toxaphene	NC	3.4 UJ	5.1 UJ	3.3 UJ	3.6 UJ	4 UJ	3.4 UJ	3.7 UJ
Chlordane	540	0.41 UJ	0.61 UJ	0.4 UJ	0.44 UJ	0.48 UJ	0.42 UJ	0.44 UJ

Sample Location		SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	49 to 51
Sampling Date		05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Herbicides (ug/Kg)	TAGM RSCO							
DICAMBA	NC	1.5 UJ	2.2 UJ	1.4 UJ	1.6 UJ	1.8 UJ	1.5 UJ	1.6 UJ
DICHLORPROP	NC	3.2 UJ	4.8 UJ	3.1 UJ	3.5 UJ	3.9 UJ	3.3 UJ	3.5 UJ
2,4-D	500	5.2 UJ	7.7 UJ	5 UJ	5.6 UJ	6.2 UJ	5.3 UJ	5.5 UJ
2,4,5-TP (SILVEX)	700	1.6 UJ	2.3 UJ	1.5 UJ	1.7 UJ	1.9 UJ	1.6 UJ	1.7 UJ
2,4,5-T	1900	1.4 UJ	2.1 UJ	1.4 UJ	1.6 UJ	1.7 UJ	1.5 UJ	1.5 UJ
2,4-DB	NC	3.1 UJ	4.6 UJ	3 UJ	3.3 UJ	3.7 UJ	3.2 UJ	3.3 UJ
DINOSEB	NC	1.2 UJ	1.8 UJ	1.2 UJ	1.3 UJ	1.5 UJ	1.3 UJ	1.3 UJ

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 3
Former West 18th Street MGP Site
Consolidated Edison Company of New York, Inc.
Table 4-20

Sample Location		SB-19	SB-19	SB-20	SB-20	SB-20	SB-20	SB-20
Sample Interval (Feet bgs)		5 to 7	17 to 19	9 to 11	13 to 15	19 to 20	41 to 43	49 to 51
Sampling Date		05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04	05/02/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCBs (ug/Kg)	TAGM RSCO							
Aroclor-1016	10,000 (subsurface)	5.9 U	8.7 U	5.7 U	6.2 U	6.9 U	6 U	6.3 U
Aroclor-1221	10,000 (subsurface)	4 U	6 U	3.9 U	4.2 U	4.7 U	4.1 U	4.3 U
Aroclor-1232	10,000 (subsurface)	2.7 U	4 U	2.6 U	2.9 U	3.2 U	2.8 U	2.9 U
Aroclor-1242	10,000 (subsurface)	3.5 U	5.2 U	3.4 U	3.7 U	4.1 U	3.6 U	3.7 U
Aroclor-1248	10,000 (subsurface)	4.1 U	6.1 U	4 U	4.4 U	4.9 U	4.2 U	4.4 U
Aroclor-1254	10,000 (subsurface)	1.5 U	2.3 U	1.5 U	1.6 U	1.8 U	1.6 U	1.6 U
Aroclor-1260	10,000 (subsurface)	3.3 U	4.9 U	3.2 U	3.5 U	3.9 U	3.4 U	3.5 U

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 3
Former West 18th Street MGP Site
Consolidated Edison Company of New York, Inc.
Table 4-20

Sample Location Sample Interval (Feet bgs) Sampling Date Units Pesticides (ug/Kg)	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
alpha-BHC	110	7	0	0%	0	0%	< 1.2	< 1.9
beta-BHC	200	7	0	0%	0	0%	< 1.2	< 1.9
delta-BHC	300	7	0	0%	0	0%	< 0.97	< 1.5
gamma-BHC	60	7	0	0%	0	0%	< 1.3	< 2.1
Heptachlor	100	7	0	0%	0	0%	< 1.4	< 2.2
Aldrin	41	7	0	0%	0	0%	< 1.1	< 1.8
Heptachlor epoxide	20	7	0	0%	0	0%	< 1.4	< 2.2
Endosulfan I	900	7	0	0%	0	0%	< 1.6	< 2.5
Dieldrin	44	7	0	0%	0	0%	< 1.1	< 1.7
4,4-DDE	2,100	7	0	0%	0	0%	< 1.4	< 2.2
Endrin	100	7	0	0%	0	0%	< 2	< 3.1
Endosulfan II	900	7	0	0%	0	0%	< 1.4	< 2.2
4,4-DDD	2,900	7	0	0%	0	0%	< 1.1	< 1.7
Endosulfan Sulfate	NC	7	0	0%	0	0%	< 1.6	< 2.5
4,4-DDT	2100	7	0	0%	0	0%	< 2	< 3.1
Methoxychlor	NC	7	0	0%	0	0%	< 1.4	< 2.1
Endrin ketone	N/A	7	0	0%	0	0%	< 1.4	< 2.2
Endrin aldehyde	NC	7	0	0%	0	0%	< 1.7	< 2.6
alpha-Chlordane	NC	7	0	0%	0	0%	< 1.6	< 2.5
gamma-Chlordane	540	7	0	0%	0	0%	< 1.6	< 2.5
Toxaphene	NC	7	0	0%	0	0%	< 3.3	< 5.1
Chlordane	540	7	0	0%	0	0%	< 0.4	< 0.61

Sample Location Sample Interval (Feet bgs) Sampling Date Units Herbicides (ug/Kg)	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
DICAMBA	NC	7	0	0%	0	0%	< 1.4	< 2.2
DICHLORPROP	NC	7	0	0%	0	0%	< 3.1	< 4.8
2,4-D	500	7	0	0%	0	0%	< 5	< 7.7
2,4,5-TP (SILVEX)	700	7	0	0%	0	0%	< 1.5	< 2.3
2,4,5-T	1900	7	0	0%	0	0%	< 1.4	< 2.1
2,4-DB	NC	7	0	0%	0	0%	< 3	< 4.6
DINOSEB	NC	7	0	0%	0	0%	< 1.2	< 1.8

Summary of Pesticides, Herbicides and PCBs in Subsurface Soil - Area 3
Former West 18th Street MGP Site
Consolidated Edison Company of New York, Inc.
Table 4-20

Sample Location Sample Interval (Feet bgs) Sampling Date Units PCBs (ug/Kg)	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Aroclor-1016	10,000 (subsurface)	7	0	0%	0	0%	< 5.7	< 8.7
Aroclor-1221	10,000 (subsurface)	7	0	0%	0	0%	< 3.9	< 6
Aroclor-1232	10,000 (subsurface)	7	0	0%	0	0%	< 2.6	< 4
Aroclor-1242	10,000 (subsurface)	7	0	0%	0	0%	< 3.4	< 5.2
Aroclor-1248	10,000 (subsurface)	7	0	0%	0	0%	< 4	< 6.1
Aroclor-1254	10,000 (subsurface)	7	0	0%	0	0%	< 1.5	< 2.3
Aroclor-1260	10,000 (subsurface)	7	0	0%	0	0%	< 3.2	< 4.9

Summary of Field Work and Observations for Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-21

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-29	7-Nov	50	NA	11	36-39	N/O, N/S, no sheen
MW-29A	7-Nov	20	8' - 18'	11	Not encountered	N/O, N/S, no sheen
SB-30	30-Oct	86	NA	11	24-28.7'	12'-16': SI petroleum odor, N/S, Max. PID: 8.7 ppm at 12'-14' bgs. 16'-24': MGP-related odor, sheen. 20'-24': Visible OLM and TLM. 22'-24': black staining, Max PID = 1,585 ppm.

Note: Elevations are reported in feet below ground surface (ft bgs).

Laboratory and Data Validation Qualifiers
Former Broadway/Dyckman Street Station
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-22

Sample Location		SB-29	SB-29	SB-29	SB-29	SB-71	SB-30	SB-30	SB-30	SB-30	SB-30
Sample Interval (Feet bgs)		11 to 13	34 to 36	38 to 39	48 to 50	48 to 50	10 to 12	22-24	24 to 26	28 to 30	84 to 86
Sampling Date		11/06/04	11/07/04	11/07/04	11/07/04	11/07/04	10/10/04	10/10/04	10/10/04	10/30/04	10/30/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
						Blind Duplicate					
Volatile Organic Compounds	TAGM RSCO										
Dichlorodifluoromethane	NC	1.4 UJ	1.5 U	1.6 U	1.5 U	1.5 U	1.4 U	71 U	8.7 U	1.5 U	1.5 U
Chloromethane	NC	0.38 UJ	0.39 U	0.42 U	0.4 U	0.4 U	0.38 U	140 U	2.3 U	0.4 U	0.41 U
Vinyl Chloride	200	0.27 UJ	0.28 U	0.3 U	0.29 U	0.29 U	0.27 U	57 U	1.7 U	0.28 U	0.29 U
Bromomethane	NC	0.82 UJ	0.83 U	0.9 U	0.86 U	0.86 U	0.82 U	170 U	5 U	0.85 U	0.88 U
Chloroethane	1,900	0.61 UJ	0.62 U	0.66 U	0.64 U	0.64 U	0.61 U	190 U	3.7 U	0.63 U	0.66 U
Trichlorofluoromethane	NC	2.9 UJ	2.9 U	3.1 U	3 U	3 U	2.9 U	120 U	17 U	3 U	3.1 U
1,1,2-Trichlorotrifluoroethane	6,000	0.53 UJ	0.54 U	0.58 U	0.56 U	0.56 U	0.53 U	150 U	3.2 U	0.55 U	0.57 U
1,1-Dichloroethene	400	0.25 UJ	0.25 U	0.27 U	0.26 U	0.26 U	0.25 U	68 U	1.5 U	0.26 U	0.27 U
Acetone	200	8.7 UJ	8.8 U	9.4 U	9.1 U	9.1 U	48 BJ	***5300*** J	***240*** BJ	25 J	52 J
Carbon Disulfide	2,700	0.12 UJ	0.12 U	0.13 U	0.12 U	0.12 U	3.3 J	83 U	0.71 U	0.12 U	0.13 U
Methyl tert-butyl Ether	120	0.27 UJ	0.27 U	0.29 U	0.28 U	0.28 U	0.27 U	76 U	1.6 U	0.28 U	0.29 U
Methyl Acetate	NC	1.5 UJ	1.5 U	1.6 U	1.6 U	1.6 U	1.5 U	180 U	9 U	1.5 U	1.6 U
Methylene Chloride	100	7.9 BJ	3.1 JB	3.4 JB	3.5 JB	3.5 JB	2.7 JB	***1300*** J	33 J	0.82 U	0.85 U
trans-1,2-Dichloroethene	300	0.43 UJ	0.44 U	0.47 U	0.45 U	0.45 U	0.43 U	110 U	2.6 U	0.45 U	0.46 U
1,1-Dichloroethane	200	0.41 UJ	0.42 U	0.45 U	0.43 U	0.43 U	0.41 U	46 U	2.5 U	0.43 U	0.44 U
Cyclohexane	NC	0.35 UJ	0.36 U	0.39 U	0.37 U	0.37 U	0.35 U	78 U	2.1 U	0.37 U	0.38 U
2-Butanone	300	2.6 UJ	2.7 U	2.9 U	2.8 U	2.8 U	2.6 U	600 U	16 U	2.7 U	2.8 U
Carbon Tetrachloride	600	0.35 UJ	0.35 U	0.38 U	0.36 U	0.36 U	0.35 U	100 U	2.1 U	0.36 U	0.37 U
cis-1,2-Dichloroethene	NC	0.41 UJ	0.41 U	0.45 U	0.43 U	0.43 U	0.41 U	160 U	2.5 U	0.42 U	0.44 U
Chloroform	300	1.2 J	0.28 U	0.3 U	0.29 U	0.29 U	0.28 U	120 U	17 J	0.29 U	0.3 U
1,1,1-Trichloroethane	800	0.32 UJ	0.32 U	0.34 U	0.33 U	0.33 U	0.32 U	86 U	1.9 U	0.33 U	0.34 U
Methylcyclohexane	NC	0.41 UJ	0.42 U	0.45 U	0.43 U	0.43 U	0.41 U	120 U	2.5 U	0.43 U	0.44 U
Benzene	60	2 J	0.24 U	0.26 U	0.25 U	0.25 U	12	***21000***	***7100*** D	***86***	0.25 U
1,2-Dichloroethane	200	3.6 UJ	3.6 U	3.9 U	3.8 U	3.8 U	3.6 U	68 U	22 U	3.7 U	3.8 U
Trichloroethene	700	27 J	0.38 U	0.41 U	0.39 U	0.39 U	0.37 U	140 U	2.3 U	0.39 U	0.4 U
1,2-Dichloropropane	NC	0.39 UJ	0.39 U	0.42 U	0.41 U	0.41 U	0.39 U	67 U	2.4 U	0.4 U	0.42 U
Bromodichloromethane	NC	0.39 UJ	0.39 U	0.42 U	0.41 U	0.41 U	0.39 U	74 U	2.3 U	0.4 U	0.42 U
4-Methyl-2-Pentanone	1,000	2.8 UJ	2.8 U	3 U	2.9 U	2.9 U	2.8 U	280 U	17 U	2.9 U	3 U
Toluene	1,500	4.1 J	0.3 U	0.33 U	0.32 U	0.32 U	7.1	***81000*** D	***1900*** D	43	0.32 U
t-1,3-Dichloropropene	NC	0.3 UJ	0.3 U	0.32 U	0.31 U	0.31 U	0.3 U	90 U	1.8 U	0.31 U	0.32 U
cis-1,3-Dichloropropene	NC	0.23 UJ	0.23 U	0.25 U	0.24 U	0.24 U	0.23 U	32 U	1.4 U	0.23 U	0.24 U
1,1,2-Trichloroethane	NC	0.59 UJ	0.6 U	0.64 U	0.62 U	0.62 U	0.59 U	110 U	3.6 U	0.61 U	0.63 U
2-Hexanone	NC	3.7 UJ	3.8 U	4 U	3.9 U	3.9 U	3.7 U	140 U	23 U	3.9 U	4 U
Dibromochloromethane	NA	0.34 UJ	0.34 U	0.37 U	0.35 U	0.35 U	0.34 U	80 U	2 U	0.35 U	0.36 U
1,2-Dibromoethane	NC	0.48 UJ	0.49 U	0.53 U	0.51 U	0.51 U	0.48 U	130 U	2.9 U	0.5 U	0.52 U
Tetrachloroethene	1,400	20 J	0.75 U	4.2 J	0.77 U	0.77 U	0.74 U	70 U	4.5 U	0.77 U	0.79 U
Chlorobenzene	1,700	0.41 UJ	0.41 U	0.45 U	0.43 U	0.43 U	0.41 U	78 U	2.5 U	0.42 U	0.44 U
Ethyl Benzene	5,500	0.29 UJ	0.29 U	0.32 U	0.3 U	0.3 U	0.29 U	***59000*** D	***5700*** D	55	0.31 U
m/p-Xylenes	1,200	3.4 J	0.6 U	0.65 U	0.63 U	0.63 U	4.7 J	***150000*** D	***11000*** D	130	0.64 U
o-Xylene	600	1.2 UJ	0.51 U	0.55 U	0.53 U	0.53 U	7.2	***56000*** D	***4400*** D	53	0.54 U
Styrene	NC	0.36 UJ	0.37 U	0.4 U	0.38 U	0.38 U	0.36 U	14000 J	2.2 U	2.1 J	0.39 U
Bromoform	NC	0.35 UJ	0.35 U	0.38 U	0.36 U	0.36 U	0.35 U	53 U	2.1 U	0.36 U	0.37 U
Isopropylbenzene	2,300	0.43 UJ	0.44 U	0.47 U	0.45 U	0.45 U	2.5 J	***3300***	47	1.1 J	0.46 U
1,1,2,2-Tetrachloroethane	600	0.62 UJ	0.62 U	0.67 U	0.65 U	0.65 U	0.62 U	100 U	3.7 U	0.64 U	0.66 U
1,3-Dichlorobenzene	1,600	0.25 UJ	0.25 U	0.27 U	0.26 U	0.26 U	0.25 U	79 U	1.5 U	0.25 U	0.26 U
1,4-Dichlorobenzene	8,500	0.41 UJ	0.41 U	0.44 U	0.43 U	0.43 U	0.41 U	82 U	2.5 U	0.42 U	0.44 U
1,2-Dichlorobenzene	7,900	0.48 UJ	0.48 U	0.52 U	0.5 U	0.5 U	0.48 U	78 U	2.9 U	0.49 U	0.51 U
1,2-Dibromo-3-Chloropropane	NC	0.79 UJ	0.8 U	0.86 U	0.83 U	0.83 U	0.79 U	200 U	4.8 U	0.82 U	0.85 U
1,2,4-Trichlorobenzene	3,400	0.29 UJ	0.29 U	0.32 U	0.3 U	0.3 U	0.29 U	61 U	1.8 U	0.3 U	0.31 U
Total Confident Conc. VOC	10,000	66.8	3.1	7.6	3.5	3.5	87.5	***390,900***	***30,437***	395.2	52

Summary of Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-22

Sample Location		**SB-66**							
Sample Interval (Feet bgs)		84 to 86							
Sampling Date		10/30/04							
Units		ug/Kg							
Volatile Organic Compounds	TAGM RSCO	Blind Duplicate	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	1.5 U	11	0	0%	0	0%	< 1.4	< 71
Chloromethane	NC	0.4 U	11	0	0%	0	0%	< 0.38	< 140
Vinyl Chloride	200	0.29 U	11	0	0%	0	0%	< 0.27	< 57
Bromomethane	NC	0.86 U	11	0	0%	0	0%	< 0.82	< 170
Chloroethane	1,900	0.64 U	11	0	0%	0	0%	< 0.61	< 190
Trichlorofluoromethane	NC	3 U	11	0	0%	0	0%	< 2.9	< 120
1,1,2-Trichlorotrifluoroethane	6,000	0.56 U	11	0	0%	0	0%	< 0.53	< 150
1,1-Dichloroethene	400	0.26 U	11	0	0%	0	0%	< 0.25	< 68
Acetone	200	34 J	11	6	55%	2	18%	< 8.7	5,300
Carbon Disulfide	2,700	0.12 U	11	1	9%	0	0%	< 0.12	83
Methyl tert-butyl Ether	120	0.28 U	11	0	0%	0	0%	< 0.27	< 76
Methyl Acetate	NC	1.6 U	11	0	0%	0	0%	< 1.5	< 180
Methylene Chloride	100	0.83 U	11	8	73%	1	9%	< 0.82	1,300
trans-1,2-Dichloroethene	300	0.45 U	11	0	0%	0	0%	< 0.43	< 110
1,1-Dichloroethane	200	0.43 U	11	0	0%	0	0%	< 0.41	< 46
Cyclohexane	NC	0.37 U	11	0	0%	0	0%	< 0.35	< 78
2-Butanone	300	2.8 U	11	0	0%	0	0%	< 2.6	< 600
Carbon Tetrachloride	600	0.36 U	11	0	0%	0	0%	< 0.35	< 100
cis-1,2-Dichloroethene	NC	0.43 U	11	0	0%	0	0%	< 0.41	< 160
Chloroform	300	0.29 U	11	2	18%	0	0%	< 0.28	120
1,1,1-Trichloroethane	800	0.33 U	11	0	0%	0	0%	< 0.32	< 86
Methylcyclohexane	NC	0.43 U	11	0	0%	0	0%	< 0.41	< 120
Benzene	60	0.25 U	11	5	45%	3	27%	< 0.24	21,000
1,2-Dichloroethane	200	3.8 U	11	0	0%	0	0%	< 3.6	< 68
Trichloroethene	700	0.39 U	11	1	9%	0	0%	< 0.37	140
1,2-Dichloropropane	NC	0.41 U	11	0	0%	0	0%	< 0.39	< 67
Bromodichloromethane	NC	0.41 U	11	0	0%	0	0%	< 0.39	< 74
4-Methyl-2-Pentanone	1,000	2.9 U	11	0	0%	0	0%	< 2.8	< 280
Toluene	1,500	0.32 U	11	5	45%	2	18%	< 0.3	81,000
t-1,3-Dichloropropene	NC	0.31 U	11	0	0%	0	0%	< 0.3	< 90
cis-1,3-Dichloropropene	NC	0.24 U	11	0	0%	0	0%	< 0.23	< 32
1,1,2-Trichloroethane	NC	0.62 U	11	0	0%	0	0%	< 0.59	< 110
2-Hexanone	NC	3.9 U	11	0	0%	0	0%	< 3.7	< 140
Dibromochloromethane	NA	0.35 U	11	0	0%	0	0%	< 0.34	< 80
1,2-Dibromoethane	NC	0.51 U	11	0	0%	0	0%	< 0.48	< 130
Tetrachloroethene	1,400	0.77 U	11	2	18%	0	0%	< 0.74	70
Chlorobenzene	1,700	0.43 U	11	0	0%	0	0%	< 0.41	< 78
Ethyl Benzene	5,500	0.3 U	11	3	27%	2	18%	< 0.29	59,000
m/p-Xylenes	1,200	0.63 U	11	5	45%	2	18%	< 0.6	150,000
o-Xylene	600	0.53 U	11	4	36%	2	18%	< 0.51	56,000
Styrene	NC	0.38 U	11	2	18%	0	0%	< 0.36	14,000
Bromoform	NC	0.36 U	11	0	0%	0	0%	< 0.35	< 53
Isopropylbenzene	2,300	0.45 U	11	4	36%	1	9%	< 0.43	3,300
1,1,2,2-Tetrachloroethane	600	0.65 U	11	0	0%	0	0%	< 0.62	< 100
1,3-Dichlorobenzene	1,600	0.26 U	11	0	0%	0	0%	< 0.25	< 79
1,4-Dichlorobenzene	8,500	0.43 U	11	0	0%	0	0%	< 0.41	< 82
1,2-Dichlorobenzene	7,900	0.5 U	11	0	0%	0	0%	< 0.48	< 78
1,2-Dibromo-3-Chloropropane	NC	0.83 U	11	0	0%	0	0%	< 0.79	< 200
1,2,4-Trichlorobenzene	3,400	0.3 U	11	0	0%	0	0%	< 0.29	< 61
Total Confident Conc. VOC	10,000	34							

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-23

Sample Location		SB-29	SB-29	SB-29	SB-29	SB-71	SB-30	SB-30	SB-30	SB-30	SB-30
Sample Interval (Feet bgs)		11 to 13	34 to 36	38 to 39	48 to 50	48 to 50	10 to 12	22-24	24 to 26	28 to 30	84 to 86
Sampling Date		11/06/04	11/07/04	11/07/04	11/07/04	11/07/04	10/10/04	10/10/04	10/10/04	10/30/04	10/30/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO					Blind Duplicate					
Benzaldehyde	NC	37 U	38 U	40 U	39 U	39 U	74 U	54 U	45 U	39 U	40 U
Phenol	30 or MDL	16 U	16 U	17 U	17 U	17 U	32 U	23 U	19 U	16 U	17 U
bis(2-Chloroethyl)ether	NC	19 U	19 U	20 U	20 U	20 U	37 U	27 U	23 U	19 U	20 U
2-Chlorophenol	800	17 U	17 U	18 U	17 U	17 U	33 U	24 U	20 U	17 U	18 U
2-Methylphenol	100 or MDL	24 U	24 U	26 U	25 U	25 U	48 U	35 U	29 U	25 U	26 U
2,2-oxybis(1-Chloropropane)	NC	21 U	21 U	22 U	21 U	22 U	41 U	30 U	25 U	21 U	22 U
Acetophenone	NC	20 U	20 U	22 U	21 U	21 U	40 U	29 U	24 U	21 U	21 U
3+4-Methylphenols	900	18 U	18 U	19 U	18 U	18 U	35 U	25 U	21 U	18 U	19 U
N-Nitroso-di-n-propylamine	NC	17 UJ	17 U	18 U	18 U	18 U	34 U	24 U	20 U	17 U	18 U
Hexachloroethane	NC	18 UJ	18 U	20 U	19 U	19 U	36 U	26 U	22 U	19 U	20 U
Nitrobenzene	200 or MDL	19 UJ	20 U	21 U	20 U	20 U	39 U	28 U	24 U	20 U	21 U
Isophorone	4,400	14 UJ	14 U	15 U	15 U	15 U	28 U	21 U	17 U	15 U	15 U
2-Nitrophenol	330 or MDL	15 UJ	16 U	17 U	16 U	16 U	31 U	22 U	19 U	16 U	17 U
2,4-Dimethylphenol	NC	21 UJ	21 U	22 U	21 U	22 U	41 U	910	1900	21 U	22 U
bis(2-Chloroethoxy)methane	NC	17 UJ	18 U	19 U	18 U	18 U	35 U	25 U	21 U	18 U	19 U
2,4-Dichlorophenol	400	13 UJ	14 U	14 U	14 U	14 U	27 U	19 U	16 U	14 U	14 U
Naphthalene	13,000	8.3 UJ	8.4 U	9 U	8.6 U	8.7 U	1200	9600 D	660	63 J	8.9 U
4-Chloroaniline	220 or MDL	140 UJ	140 U	150 U	150 U	150 U	280 U	200 U	170 U	150 U	150 U
Hexachlorobutadiene	NC	13 UJ	14 U	14 U	14 U	14 U	27 U	19 U	16 U	14 U	14 U
Caprolatam	NC	14 UJ	14 U	15 U	15 U	15 U	28 U	20 U	17 U	15 U	15 U
4-Chloro-3-methylphenol	240 or MDL	11 UJ	11 U	12 U	12 U	12 U	23 U	16 U	14 U	12 U	12 U
2-Methylnaphthalene	36,400	47 J	100 J	7.1 U	6.8 U	6.9 U	330 J	2400 J	8 U	6.8 U	7.1 U
Hexachlorocyclopentadiene	NC	9.6 UJ	9.7 UJ	10 UJ	10 UJ	10 UJ	19 UJ	14 UJ	12 UJ	9.9 UJ	10 UJ
2,4,6-Trichlorophenol	NC	14 UJ	14 U	15 U	14 U	14 U	28 U	20 U	17 U	14 U	15 U
2,4,5-Trichlorophenol	100	25 UJ	26 U	27 U	26 U	26 U	50 U	37 U	31 U	26 U	27 U
1,1-Biphenyl	NC	11 UJ	11 U	12 U	12 U	12 U	100 J	200 J	14 U	12 U	12 U
2-Chloronaphthalene	NC	8 UJ	8.1 U	8.6 U	8.3 U	8.3 U	16 U	12 U	9.7 U	8.2 U	8.6 U
2-Nitroaniline	430 or MDL	14 UJ	14 U	15 U	14 U	14 U	28 U	20 U	17 U	14 U	15 U
Dimethylphthalate	2,000	9.1 UJ	9.2 U	9.8 U	9.5 U	9.5 U	18 U	13 U	11 U	9.4 U	9.8 U
Acenaphthylene	41,000	11 UJ	12 U	12 U	12 U	12 U	190 J	720	14 U	12 U	12 U
2,6-Dinitrotoluene	1,000	16 UJ	16 U	18 U	17 U	17 U	32 U	24 U	20 U	17 U	18 U
3-Nitroaniline	500 or MDL	62 UJ	62 U	67 U	64 U	64 U	120 U	89 U	75 U	64 U	66 U
Acenaphthene	50,000	8.4 UJ	8.5 U	9.1 U	8.8 U	8.8 U	1700	200 J	10 U	8.7 U	9.1 U
2,4-Dinitrophenol	200 or MDL	17 UJ	17 U	18 U	18 U	18 U	34 U	24 U	20 U	17 U	18 U
4-Nitrophenol	100 or MDL	37 UJ	38 U	40 U	39 U	39 U	74 U	54 U	45 U	39 U	40 U
Dibenzofuran	6,200	13 UJ	13 U	14 U	13 U	13 U	1300	470 J	15 U	13 U	14 U
2,4-Dinitrotoluene	1,000	7.6 UJ	7.7 U	8.2 U	7.9 U	8 U	15 U	11 U	9.3 U	7.9 U	8.2 U
Diethylphthalate	7,100	12 UJ	12 U	13 U	12 U	13 U	24 U	17 U	15 U	12 U	13 U
4-Chlorophenyl-phenylether	NC	9.5 UJ	9.6 U	10 U	9.8 U	9.9 U	19 U	14 U	11 U	9.8 U	10 U
Fluorene	50,000	11 UJ	11 U	12 U	11 U	11 U	1900 J	830 J	13 U	11 U	12 U
4-Nitroaniline	NC	30 UJ	30 U	32 U	31 U	31 U	60 U	43 U	36 U	31 U	32 U
4,6-Dinitro-2-methylphenol	NC	22 UJ	22 U	24 U	23 U	23 U	44 U	32 U	27 U	23 U	24 U
N-Nitrosodiphenylamine	NC	9.7 UJ	9.8 U	10 U	10 U	10 U	19 U	14 U	12 U	42 J	10 U
4-Bromophenyl-phenylether	NC	10 UJ	10 U	11 U	10 U	10 U	20 U	15 U	12 U	10 U	11 U
Hexachlorobenzene	410	7.2 UJ	7.2 U	7.7 U	7.4 U	7.5 U	14 U	10 U	8.7 U	7.4 U	7.7 U
Atrazine	NC	12 UJ	12 U	13 U	12 U	12 U	23 U	17 U	14 U	12 U	13 U
Pentachlorophenol	1000 or MDL	12 UJ	12 U	13 U	12 U	12 U	24 U	17 U	14 U	12 U	13 U
Phenanthrene	50,000	8.6 UJ	8.6 U	9.2 U	8.9 U	8.9 U	5800 DJ	2100 J	10 U	8.8 U	9.2 U
Anthracene	50,000	9.1 UJ	9.2 U	9.8 U	9.5 U	9.5 U	2000	490 J	11 U	9.4 U	9.8 U
Carbazole	NC	8.4 UJ	8.5 U	9.1 U	8.8 U	8.8 U	17 U	260 J	10 U	8.7 U	9.1 U
Di-n-butylphthalate	8,100	5.1 UJ	5.1 U	5.5 U	5.3 U	5.3 U	10 U	7.3 U	6.2 U	5.3 U	5.5 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-23

Sample Location		SB-29	SB-29	SB-29	SB-29	SB-71	SB-30	SB-30	SB-30	SB-30	SB-30
Sample Interval (Feet bgs)		11 to 13	34 to 36	38 to 39	48 to 50	48 to 50	10 to 12	22-24	24 to 26	28 to 30	84 to 86
Sampling Date		11/06/04	11/07/04	11/07/04	11/07/04	11/07/04	10/10/04	10/10/04	10/10/04	10/30/04	10/30/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO					Blind Duplicate					
Fluoranthene	50,000	5.3 UJ	5.4 U	5.7 U	5.5 U	5.5 U	5300	720	6.4 U	5.5 U	5.7 U
Pyrene	50,000	6.8 UJ	6.9 U	7.4 U	7.1 U	7.1 U	5200	790	8.3 U	7.1 U	7.3 U
Butylbenzylphthalate	50,000	13 UJ	13 U	14 U	13 U	13 U	26 U	19 U	16 U	13 U	14 U
3,3-Dichlorobenzidine	NA	61 UJ	62 U	66 U	64 U	64 U	120 U	89 U	74 U	63 U	66 U
Benzo(a)anthracene	224 or MDL	5.8 UJ	5.8 U	6.2 U	6 U	6 U	***2800***	***430*** J	7 U	6 U	6.2 U
Chrysene	400	12 UJ	12 U	13 U	13 U	13 U	***2100***	320 J	15 U	13 U	13 U
bis(2-Ethylhexyl)phthalate	50,000	92 J	82 J	61 J	75 J	120 J	210 J	79 J	62 J	47 J	51 J
Di-n-octyl phthalate	50,000	9.1 UJ	9.2 U	9.8 U	9.5 U	9.5 U	18 U	13 U	11 U	9.4 U	9.8 U
Benzo(b)fluoranthene	1,100	20 UJ	21 U	22 U	21 U	21 U	***3300***	270 J	25 U	21 U	22 U
Benzo(k)fluoranthene	1,100	13 UJ	13 U	14 U	14 U	14 U	***1700*** J	140 J	16 U	14 U	14 U
Benzo(a)pyrene	61 or MDL	6.6 UJ	6.7 U	7.1 U	6.8 U	6.9 U	***3100***	***280*** J	8 U	6.8 U	7.1 U
Indeno(1,2,3-cd)pyrene	3,200	9.3 UJ	9.3 U	10 U	9.6 U	9.6 U	880 J	74 J	11 U	9.6 U	9.9 U
Dibenz(a,h)anthracene	14 or MDL	11 UJ	11 U	12 U	12 U	12 U	***170*** J	16 U	14 U	12 U	12 U
Benzo(g,h,i)perylene	50,000	17 UJ	17 U	18 U	17 U	17 U	1300	100 J	20 U	17 U	18 U
Total Confident Conc. SVOC	500,000	139	182	61	75	120	40,580	21,683	2,622	152	51
Carcinogenic SVOCs in BaP Equivalents		ND	ND	ND	ND	ND	4,006	362	ND	ND	ND

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-23

Sample Location		SB-66							
Sample Interval (Feet bgs)		84 to 86							
Sampling Date		10/30/04							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Blind Duplicate	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	39 U	11	0	0%	0	0%	< 37	< 74
Phenol	30 or MDL	17 U	11	0	0%	0	0%	< 16	< 32
bis(2-Chloroethyl)ether	NC	20 U	11	0	0%	0	0%	< 19	< 37
2-Chlorophenol	800	17 U	11	0	0%	0	0%	< 17	< 33
2-Methylphenol	100 or MDL	25 U	11	0	0%	0	0%	< 24	< 48
2,2-oxybis(1-Chloropropane)	NC	21 U	11	0	0%	0	0%	< 21	< 41
Acetophenone	NC	21 U	11	0	0%	0	0%	< 20	< 40
3+4-Methylphenols	900	18 U	11	0	0%	0	0%	< 18	< 35
N-Nitroso-di-n-propylamine	NC	18 U	11	0	0%	0	0%	< 17	< 34
Hexachloroethane	NC	19 U	11	0	0%	0	0%	< 18	< 36
Nitrobenzene	200 or MDL	20 U	11	0	0%	0	0%	< 19	< 39
Isophorone	4,400	15 U	11	0	0%	0	0%	< 14	< 28
2-Nitrophenol	330 or MDL	16 U	11	0	0%	0	0%	< 15	< 31
2,4-Dimethylphenol	NC	21 U	11	2	18%	0	0%	< 21	1,900
bis(2-Chloroethoxy)methane	NC	18 U	11	0	0%	0	0%	< 17	< 35
2,4-Dichlorophenol	400	14 U	11	0	0%	0	0%	< 13	< 27
Naphthalene	13,000	8.6 U	11	4	36%	0	0%	< 8.3	9,600
4-Chloroaniline	220 or MDL	150 U	11	0	0%	0	0%	< 140	< 280
Hexachlorobutadiene	NC	14 U	11	0	0%	0	0%	< 13	< 27
Caprolatam	NC	15 U	11	0	0%	0	0%	< 14	< 28
4-Chloro-3-methylphenol	240 or MDL	12 U	11	0	0%	0	0%	< 11	< 23
2-Methylnaphthalene	36,400	6.8 U	11	4	36%	0	0%	< 6.8	2,400
Hexachlorocyclopentadiene	NC	10 UJ	11	0	0%	0	0%	< 9.6	< 19
2,4,6-Trichlorophenol	NC	14 U	11	0	0%	0	0%	< 14	< 28
2,4,5-Trichlorophenol	100	26 U	11	0	0%	0	0%	< 25	< 50
1,1-Biphenyl	NC	12 U	11	2	18%	0	0%	< 11	200
2-Chloronaphthalene	NC	8.3 U	11	0	0%	0	0%	< 8	< 16
2-Nitroaniline	430 or MDL	14 U	11	0	0%	0	0%	< 14	< 28
Dimethylphthalate	2,000	9.5 U	11	0	0%	0	0%	< 9.1	< 18
Acenaphthylene	41,000	12 U	11	2	18%	0	0%	< 11	720
2,6-Dinitrotoluene	1,000	17 U	11	0	0%	0	0%	< 16	< 32
3-Nitroaniline	500 or MDL	64 U	11	0	0%	0	0%	< 62	< 120
Acenaphthene	50,000	8.8 U	11	2	18%	0	0%	< 8.4	1,700
2,4-Dinitrophenol	200 or MDL	18 U	11	0	0%	0	0%	< 17	< 34
4-Nitrophenol	100 or MDL	39 U	11	0	0%	0	0%	< 37	< 74
Dibenzofuran	6,200	13 U	11	2	18%	0	0%	< 13	1,300
2,4-Dinitrotoluene	1,000	7.9 U	11	0	0%	0	0%	< 7.6	< 15
Diethylphthalate	7,100	12 U	11	0	0%	0	0%	< 12	< 24
4-Chlorophenyl-phenylether	NC	9.8 U	11	0	0%	0	0%	< 9.5	< 19
Fluorene	50,000	11 U	11	2	18%	0	0%	< 11	1,900
4-Nitroaniline	NC	31 U	11	0	0%	0	0%	< 30	< 60
4,6-Dinitro-2-methylphenol	NC	23 U	11	0	0%	0	0%	< 22	< 44
N-Nitrosodiphenylamine	NC	10 U	11	1	9%	0	0%	< 9.7	42
4-Bromophenyl-phenylether	NC	10 U	11	0	0%	0	0%	< 10	< 20
Hexachlorobenzene	410	7.4 U	11	0	0%	0	0%	< 7.2	< 14
Atrazine	NC	12 U	11	0	0%	0	0%	< 12	< 23
Pentachlorophenol	1000 or MDL	12 U	11	0	0%	0	0%	< 12	< 24
Phenanthrene	50,000	50 J	11	3	27%	0	0%	< 8.6	5,800
Anthracene	50,000	9.5 U	11	2	18%	0	0%	< 9.1	2,000
Carbazole	NC	8.8 U	11	1	9%	0	0%	< 8.4	260
Di-n-butylphthalate	8,100	5.3 U	11	0	0%	0	0%	< 5.1	< 10

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-23

Sample Location		**SB-66**							
Sample Interval (Feet bgs)		84 to 86							
Sampling Date		10/30/04							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Blind Duplicate	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Fluoranthene	50,000	5.5 U	11	2	18%	0	0%	< 5.3	5,300
Pyrene	50,000	55 J	11	3	27%	0	0%	< 6.8	5,200
Butylbenzylphthalate	50,000	13 U	11	0	0%	0	0%	< 13	< 26
3,3-Dichlorobenzidine	NA	64 U	11	0	0%	0	0%	< 61	< 120
Benzo(a)anthracene	224 or MDL	6 U	11	2	18%	2	18%	< 5.8	2,800
Chrysene	400	13 U	11	2	18%	1	9%	< 12	2,100
bis(2-Ethylhexyl)phthalate	50,000	59 J	11	11	100%	0	0%	47	210
Di-n-octyl phthalate	50,000	9.5 U	11	0	0%	0	0%	< 9.1	< 18
Benzo(b)fluoranthene	1,100	21 U	11	2	18%	1	9%	< 20	3,300
Benzo(k)fluoranthene	1,100	14 U	11	2	18%	1	9%	< 13	1,700
Benzo(a)pyrene	61 or MDL	6.8 U	11	2	18%	2	18%	< 6.6	3,100
Indeno(1,2,3-cd)pyrene	3,200	9.6 U	11	2	18%	0	0%	< 9.3	880
Dibenz(a,h)anthracene	14 or MDL	12 U	11	1	9%	1	9%	< 11	170
Benzo(g,h,i)perylene	50,000	17 U	11	2	18%	0	0%	< 17	1,300
Total Confident Conc. SVOC	500,000	164							
Carcinogenic SVOCs in BaP Equivalents		ND							

Summary of Metals and Cyanide in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-24

Sample Location		SB-29	SB-29	SB-29	SB-29	SB-71	SB-30	SB-30	SB-30	SB-30	SB-30
Sample Interval (Feet bgs)		11 to 13	34 to 36	38 to 39	48 to 50	48 to 50	10 to 12	22-24	24 to 26	28 to 30	84 to 86
Sampling Date		11/06/04	11/07/04	11/07/04	11/07/04	11/07/04	10/10/04	10/10/04	10/10/04	10/30/04	10/30/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO					Blind Duplicate					
Antimony	B	0.658 U	0.665 U	0.708 U	0.687 U	0.689 U	0.818 J	0.95 U	0.793 U	0.68 U	0.71 U
Arsenic	12	1.99	0.468 J	2.1	1.53	1.82	2.44	2.67	6.55	2.8	0.78 J
Beryllium	600	0.261 J	0.22 J	0.462 J	0.441 J	0.62	0.36 J	0.568 J	0.601 J	0.31 J	0.41 J
Cadmium	1	0.116 J	0.054 U	0.231 J	0.171 J	0.212 J	0.054 U	0.078 U	0.065 U	0.06 U	0.06 U
Chromium	40	14	13.8	12.5	11.7	15.9	10.2	19.4	18.4	15.5	13.5
Copper	50	20.3	11.4	17.3	9.69 R	14.2	24.7	15.9	11.7	10.4	15.6
Lead	500	15.9	9.19	10.2	8.82 J	12	74.3	3.67	2.78	5.9	6.2
Mercury	0.1	0.02	0.007 U	0.014	0.007 U	0.007 U	***0.113*** R	0.013 R	0.029 R	0.019	0.007 U
Nickel	25	13.6	18.6	16.8	12.7 R	17	10.9	14.1	17.5	11.1	14.6
Selenium	3.9	0.366 U	0.37 U	0.526 J	0.382 U	0.561 J	0.366 U	0.528 U	0.441 U	1.8 J	1.7 J
Silver	B	1.19	0.945 J	1.93	0.569 J	0.397 J	0.123 U	0.177 U	0.566 J	0.13 U	0.13 U
Thallium	B	0.887 J	0.39 U	0.415 U	0.52 J	0.557 J	0.386 U	0.557 U	0.465 U	0.4 U	0.41 U
Zinc	50	28.5	18.2	31.6	20 R	30.2	***57.4***	29.4	49	28.5	23.5

Sample Location		SB-29	SB-29	SB-29	SB-29	SB-71	SB-30	SB-30	SB-30	SB-30	SB-30
Sample Interval (Feet bgs)		11 to 13	34 to 36	38 to 39	48 to 50	48 to 50	10 to 12	22-24	24 to 26	28 to 30	84 to 86
Sampling Date		11/6/04	11/7/04	11/7/04	11/7/04	11/7/04	10/10/04	10/10/04	10/10/04	10/30/04	10/30/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO					Blind Duplicate					
Cyanide	NC	0.584 U	0.59 U	0.635 U	0.61 U	0.612 U	0.58 U	0.85 U	0.7 U	0.602 U	0.627 U
Amenable Cyanide	NC	0.58 U	0.59 U	0.64 U	0.61 U	0.61 U	0.58 U	0.85 U	0.7 U	0.6 U	0.63 U

Summary of Metals and Cyanide in Subsurface Soil - Area 4
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-24

Sample Location		**SB-66**							
Sample Interval (Feet bgs)		84 to 86							
Sampling Date		10/30/04							
Units		mg/Kg							
PP Metals	TAGM RSCO	Blind Duplicate	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	0.69 U	11	1	9%	0	0%	< 0.658	< 0.95
Arsenic	12	0.97 J	11	11	100%	0	0%	0.468	6.55
Beryllium	600	0.43 J	11	11	100%	0	0%	0.22	0.62
Cadmium	1	0.06 U	11	4	36%	0	0%	< 0.054	0.231
Chromium	40	15.4	11	11	100%	0	0%	10.2	19.4
Copper	50	19.4	11	11	100%	0	0%	9.69	24.7
Lead	500	7.4	11	11	100%	0	0%	2.78	74.3
Mercury	0.1	0.007 U	11	6	55%	1	9%	< 0.007	0.113
Nickel	25	18.7	11	11	100%	0	0%	10.9	18.7
Selenium	3.9	1.5 J	11	5	45%	0	0%	< 0.366	1.8
Silver	B	0.13 U	11	6	55%	0	0%	< 0.123	1.93
Thallium	B	0.4 U	11	3	27%	0	0%	< 0.386	0.887
Zinc	50	31.6	11	11	100%	1	9%	18.2	57.4

Sample Location		**SB-66**							
Sample Interval (Feet bgs)		84 to 86							
Sampling Date		10/30/04							
Units		mg/Kg							
	TAGM RSCO	Blind Duplicate	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	0.613 U	11	0	0%	0	0%	< 0.58	< 0.85
Amenable Cyanide	NC	0.61 U	11	0	0%	0	0%	< 0.58	< 0.85

Summary of Field Work and Observations for Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-25

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-31	9-Oct	27	N/A	7.5	21.1'-27	7' - 13' bgs: Sl sewage odor. 13' - 21' bgs: Burned wood odor. Max. PID: 3.5 ppm at 7' - 9' bgs.
MW-31A	9-Oct	37	4 to 14	7.5	N/A	7' - 13' bgs: Sl sewage odor. Max. PID: 3.5 ppm at 7' - 9' bgs.
SB-32	22-May	29	N/A	4.5	23	4.5' 5': Sulfur- like odor and N/S , Max. PID= 1.2ppm at 5'; 6' - 13': sl petroleum-like odor, blk staining, tr sheen, organic odor at 9'- 13', Max. PID: 3.5 ppm at 11' - 13' bgs; 15' - 21' bgs: tr blk staining, sl sheen, slag and coal fragments. Max. PID: 0.5 ppm at 19' - 21' bgs.
SB-33	16-May	41	N/A	5	35	5' - 7' bgs: petroleum-like odor, N/S, sheen, Max. PID: 13.6 ppm at 5'-7' bgs; 9'-11' bgs: N/O, N/S, trace sheen, Max. PID: 0.0 ppm; 21'-23' N/O, N/S, blk staining, MGP-related OLM odor and sheen in shoe, Max. PID= 60.2ppm; 23'-25': Sl OLM odor, N/S, Max. PID= 2.1ppm; 25'-27' bgs: N/O, N/S, trace sheen, Max. PID: 6.8 ppm; 27'- 29': Strong OLM odor, blk staining, Max. PID = 11.4ppm, 29'-31': OLM odor, blk staining and tr sheen, Max. PID= 2.4ppm; 35'- 37': Strong OLM odor in wood, N/S, Max. PID= 14.2ppm;
SB-34	10-Aug to 12-Aug	75	N/A	7.5	21-53	19' - 21' bgs: sheen, visible OLM, Max. PID: 8.2 ppm at 23' - 25' bgs.
MW-34A	22-May	12.5	2 to 12	5	N/A	No odor and no staining.
SB-36	8-May	35	N/A	4.5	28	5' - 9' bgs: petroleum-like odor, blk staining, 7'-9' bgs visible sheen, Max. PID: 0.2 ppm; 15'-19': Sl organic odor, N/S; 23' - 27' bgs: strong odor (Natural gas-like or organic), Max. PID: 219 ppm at 25' - 27' bgs Note: 7 ft of clay, but still high headspace in center of clay at 35' bgs.
SB-37						
SB-38	16-May	25	N/A	4.5	17.5	5' - 11' bgs: sheen, strong sewage-like odor 11' - 17' bgs: tr sheen, organic odor. Max. PID: 1.3 ppm at 11' - 13' bgs.
SB-39	21-Jul	27	N/A	8	22.8	5'-7': Organic odor, N/S, PID = 2.0 ppm ;
MW-40A	26-Jul	19	5 to 15	6	N/A	1'-19': N/O, N/S, Max. PID = 2.6 ppm at 16'- 18'
SB-40B	28-Jul	84	N/A	6	34-43 and 47 84	17'-23': Sweet wood odor, N/S, Max. PID = 0.4 ppm at 19'-21';

Summary of Field Work and Observations for Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-25

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-90	4-Nov	6	N/A	Not encountered.	Not encountered.	No odor and no staining. Dry.
SB-91	4-Nov	15	N/A	10	Not encountered.	5' - 8' bgs: Organic odor, N/S. Max. PID = 5.8 ppm.
SB-92	4-Nov	15	N/A	3	Not encountered.	5' bgs: Slight odor, N/S. 9' - 13' bgs: Organic odor. N/S. Max. PID = 6.1 ppm.
TP-4	8-May	6	N/A	6	N/A	2' bgs: concrete structure located in center of trench. 3' bgs: Brick structure (ring wall) at western edge of excavation. No odor, no staining.

Note: Elevations are reported in feet below ground surface (ft bgs).
SB-92 was completed in the basement of a building, and is approximately 4.5 feet below street level.

Laboratory and Data Validation Qualifiers
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Subsurface Soil -Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-26

Sample Location		TP-4	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33	SB-33
Sample Interval (Feet bgs)		5 to 6	7.1 to 7.7	21 to 23	25 to 27	4 to 5	11 to 13	21 to 23	4 to 5	11 to 13	13 to 15
Sampling Date		5/8/04	07/12/04	10/09/04	10/09/04	4/25/04	05/22/04	05/22/04	4/25/04	05/16/04	05/16/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	1.5 U	2 UJ	2.2 U	2 U	1.5 U	1.7 U	1.5 U	1.4 U	1.6 U	1.5 U
Chloromethane	NC	0.39 U	0.53 UJ	8.3 J	0.54 U	0.39 U	0.45 U	0.4 U	0.38 U	0.44 U	0.39 U
Vinyl Chloride	200	0.28 U	0.38 UJ	0.42 U	0.39 U	0.28 U	0.32 U	0.28 U	0.27 U	0.31 U	0.28 U
Bromomethane	NC	0.83 U	1.1 UJ	1.3 U	1.2 U	0.84 U	0.97 U	0.85 U	0.82 U	0.93 U	0.83 U
Chloroethane	1,900	0.62 U	0.85 UJ	0.94 U	0.86 U	0.62 U	0.72 R	0.63 R	0.61 U	0.69 U	0.62 U
Trichlorofluoromethane	NC	2.9 U	4 UJ	4.4 U	4 U	2.9 U	3.4 U	3 U	2.9 U	3.2 U	2.9 U
1,1,2-Trichlorotrifluoroethane	6,000	0.54 U	0.74 UJ	0.82 U	0.75 U	0.55 U	0.63 U	0.55 U	0.53 U	0.6 U	0.54 U
1,1-Dichloroethene	400	0.25 U	0.35 UJ	0.38 U	0.35 U	0.26 U	0.29 U	0.26 U	0.25 U	0.28 U	0.25 U
Acetone	200	8.8 U	12 UJ	170 BJ	170 BJ	8.9 U	48	19 J	8.7 U	9.8 U	8.8 U
Carbon Disulfide	2,700	0.12 U	0.16 UJ	3.8 J	9.6 J	0.12 U	0.14 U	0.12 U	0.12 U	0.13 U	0.12 U
Methyl tert-butyl Ether	120	0.27 U	0.37 UJ	0.41 U	0.38 U	0.27 U	0.31 U	0.28 U	0.27 U	0.3 U	0.27 U
Methyl Acetate	NC	1.5 U	2.1 UJ	2.9 J	2.1 U	1.5 U	1.7 U	1.5 U	1.5 U	1.7 U	1.5 U
Methylene Chloride	100	0.8 U	1.1 UJ	10 J	15 BJ	0.81 U	2.2 J	1.5 J	0.79 U	0.89 U	0.8 U
trans-1,2-Dichloroethene	300	0.44 U	0.6 UJ	0.66 U	0.61 U	0.44 U	0.51 U	0.45 U	0.43 U	0.49 U	0.44 U
1,1-Dichloroethane	200	0.42 U	0.57 UJ	0.63 U	0.58 U	0.42 U	0.48 U	0.43 U	0.41 U	0.46 U	0.42 U
Cyclohexane	NC	0.36 U	0.49 UJ	0.54 U	0.5 U	0.36 U	0.42 U	0.37 U	0.35 U	0.4 U	0.36 U
2-Butanone	300	2.7 U	3.7 UJ	16 J	3.7 U	2.7 U	3.1 U	2.7 U	2.6 U	3 U	2.7 U
Carbon Tetrachloride	600	0.35 U	0.48 UJ	0.53 U	0.49 U	0.35 U	0.41 U	0.36 U	0.35 U	0.39 U	0.35 U
cis-1,2-Dichloroethene	NC	0.41 U	0.57 UJ	0.63 U	0.58 U	0.42 U	0.48 U	0.42 U	0.41 U	0.46 U	0.41 U
Chloroform	300	0.28 U	0.38 UJ	2.5 J	0.39 U	0.28 U	0.32 U	0.29 U	0.28 U	0.31 U	0.28 U
1,1,1-Trichloroethane	800	0.32 U	0.44 UJ	0.48 U	0.44 U	0.32 U	0.37 U	0.33 U	0.32 U	0.36 U	0.32 U
Methylcyclohexane	NC	0.42 U	0.57 UJ	3.7 J	0.58 U	0.42 U	0.49 U	0.43 U	0.41 U	0.47 U	0.42 U
Benzene	60	10	0.33 UJ	***190***	3.4 J	5 J	0.28 U	0.24 U	4.7 J	0.27 U	0.24 U
1,2-Dichloroethane	200	3.6 U	5 UJ	5.5 U	5 U	3.7 U	4.2 U	3.7 U	3.6 U	4.1 U	3.6 U
Trichloroethene	700	0.38 U	0.52 UJ	0.57 U	0.52 U	0.38 U	0.44 U	0.39 U	0.37 U	0.42 U	0.38 U
1,2-Dichloropropane	NC	0.39 U	0.54 UJ	0.6 U	0.55 U	0.4 U	0.46 U	0.4 U	0.39 U	0.44 U	0.39 U
Bromodichloromethane	NC	0.39 U	0.54 UJ	0.59 U	0.55 U	0.4 U	0.46 U	0.4 U	0.39 U	0.44 U	0.39 U
4-Methyl-2-Pentanone	1,000	2.8 U	3.9 UJ	4.3 U	3.9 U	2.9 U	3.3 U	2.9 U	2.8 U	3.2 U	2.8 U
Toluene	1,500	4.9 J	4.4 J	3.5 J	0.42 U	0.31 U	0.35 U	0.31 U	3.1 J	0.34 U	0.3 U
t-1,3-Dichloropropene	NC	0.3 U	0.41 UJ	0.46 U	0.42 U	0.3 U	0.35 U	0.31 U	0.3 U	0.34 U	0.3 U
cis-1,3-Dichloropropene	NC	0.23 U	0.31 UJ	0.35 U	0.32 U	0.23 U	0.27 U	0.23 U	0.23 U	0.26 U	0.23 U
1,1,2-Trichloroethane	NC	0.6 U	0.82 UJ	0.9 U	0.83 U	0.6 U	0.69 U	0.61 U	0.59 U	0.67 U	0.6 U
2-Hexanone	NC	3.8 U	5.2 UJ	5.7 U	5.2 U	3.8 U	4.4 U	3.9 U	3.7 U	4.2 U	3.8 U
Dibromochloromethane	NA	0.34 U	0.47 UJ	0.52 U	0.48 U	0.35 U	0.4 U	0.35 U	0.34 U	0.38 U	0.34 U
1,2-Dibromoethane	NC	0.49 U	0.67 UJ	0.74 U	0.68 U	0.5 U	0.57 U	0.5 U	0.48 U	0.55 U	0.49 U
Tetrachloroethene	1,400	0.75 U	70 J	1.1 U	1 U	0.76 U	0.87 U	0.77 U	0.74 U	0.84 U	0.75 U
Chlorobenzene	1,700	0.41 U	0.57 UJ	0.63 U	0.58 U	0.42 U	0.48 U	0.42 U	0.41 U	0.46 U	0.41 U
Ethyl Benzene	5,500	0.29 U	2.4 J	1000 D	0.41 U	0.3 U	0.34 U	0.3 U	0.29 U	0.33 U	0.29 U
m/p-Xylenes	1,200	0.6 U	7.3 J	87 J	0.84 U	0.61 U	0.7 U	0.62 U	4.7 J	0.68 U	0.6 U
o-Xylene	600	0.51 U	2.8 J	37	1.9 J	0.51 U	0.59 U	0.52 U	0.5 U	0.57 U	0.51 U
Styrene	NC	0.37 U	0.5 UJ	0.56 U	0.51 U	0.37 U	0.43 U	0.38 U	0.36 U	0.41 U	0.37 U
Bromoform	NC	0.35 U	0.48 UJ	0.53 U	0.49 U	0.36 U	0.41 U	0.36 U	0.35 U	0.39 U	0.35 U
Isopropylbenzene	2,300	0.44 R	0.6 UJ	71	0.61 U	0.44 U	0.51 U	0.45 U	0.43 UJ	0.49 U	0.44 U
1,1,2,2-Tetrachloroethane	600	0.62 U	0.85 UJ	0.94 U	0.87 U	0.63 U	0.72 U	0.64 U	0.62 UJ	0.7 U	0.62 U
1,3-Dichlorobenzene	1,600	0.25 U	0.34 UJ	0.38 U	0.35 U	0.25 U	0.29 U	0.25 U	0.25 UJ	0.28 U	0.25 U
1,4-Dichlorobenzene	8,500	0.41 U	0.57 UJ	0.63 U	0.58 U	0.42 U	0.48 U	0.42 U	0.41 UJ	0.46 U	0.41 U
1,2-Dichlorobenzene	7,900	0.48 U	0.66 UJ	0.73 U	0.67 U	0.49 U	0.56 U	0.49 U	0.48 UJ	0.54 U	0.48 U
1,2-Dibromo-3-Chloropropane	NC	0.8 U	1.1 UJ	1.2 U	1.1 U	0.81 U	0.93 U	0.82 U	0.79 UJ	0.89 U	0.8 U
1,2,4-Trichlorobenzene	3,400	0.29 U	0.4 UJ	0.45 U	0.41 U	0.3 U	0.34 U	0.3 U	0.29 UJ	0.33 U	0.29 U
Total Confident Conc. VOC	10,000	14.9	86.9	1,605.7	199.9	5.0	50.2	20.5	12.5	ND	ND

Summary of Volatile Organic Compounds in Subsurface Soil -Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-26

Sample Location		SB-33	SB-33	SB-34	SB-34	SB-34	SB-34	SB-36	SB-36	SB-36	SB-73
Sample Interval (Feet bgs)		35 to 37	39 to 41	3 to 4	4 to 5	20.5 to 21	28.5 to 29	3 to 4	5 to 7	17 to 19	17 to 19
Sampling Date		05/16/04	05/16/04	5/10/04	5/10/04	08/10/04	08/10/04	4/25/04	5/8/04	5/8/04	5/8/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg Duplicate
Volatile Organic Compounds (ug/Kg)	TAGM RSCO										
Dichlorodifluoromethane	NC	2.2 U	1.8 U	1.6 U	8.7 U	1.7 U	2.1 U	1.4 U	17 U	1.6 U	1.7 UJ
Chloromethane	NC	0.59 U	0.49 U	0.42 U	2.3 U	0.46 U	0.57 U	0.38 U	4.6 U	0.42 U	0.46 UJ
Vinyl Chloride	200	0.42 U	0.35 U	0.3 U	1.7 U	0.33 U	0.41 U	0.27 U	3.3 U	0.3 U	0.33 UJ
Bromomethane	NC	1.3 U	1.1 U	0.91 U	5 U	0.98 U	1.2 U	0.82 U	9.8 U	0.91 U	0.98 UJ
Chloroethane	1,900	0.94 U	0.78 U	0.67 U	3.7 U	0.73 U	0.91 U	0.61 U	7.3 U	0.67 U	0.73 UJ
Trichlorofluoromethane	NC	4.4 U	3.7 U	3.2 U	17 U	3.4 U	4.2 U	2.9 U	34 U	3.2 U	3.4 UJ
1,1,2-Trichlorotrifluoroethane	6,000	0.82 U	0.69 U	0.59 U	3.2 U	0.64 U	0.79 U	0.53 U	6.4 U	0.59 U	0.64 UJ
1,1-Dichloroethene	400	0.38 U	0.32 U	0.28 U	1.5 U	0.3 U	0.37 U	0.25 U	3 U	0.28 U	0.3 UJ
Acetone	200	***230*** J	110 J	***240*** J	53 U	10 U	130 J	8.7 U	100 U	9.6 U	10 UJ
Carbon Disulfide	2,700	39	33	0.13 U	0.71 U	0.14 U	16	0.12 U	15 J	0.13 U	0.14 UJ
Methyl tert-butyl Ether	120	0.41 U	0.34 U	0.29 U	1.6 U	0.32 U	0.39 U	0.27 U	3.2 U	0.29 U	0.32 UJ
Methyl Acetate	NC	2.3 U	1.9 U	1.6 U	9 U	1.8 U	2.2 U	1.5 U	18 U	1.6 U	1.8 UJ
Methylene Chloride	100	4.1 J	4.4 J	0.87 U	4.8 U	0.94 U	1.2 U	0.79 U	9.4 U	0.87 U	0.94 UJ
trans-1,2-Dichloroethene	300	0.66 U	0.55 U	0.48 U	2.6 U	0.52 U	0.64 U	0.43 U	5.2 U	0.48 U	0.52 UJ
1,1-Dichloroethane	200	0.63 U	0.53 U	0.45 U	2.5 U	0.49 U	0.61 U	0.41 U	4.9 U	0.45 U	0.49 UJ
Cyclohexane	NC	0.54 U	0.46 U	0.39 U	2.1 U	0.42 U	0.53 U	0.35 U	4.2 U	0.39 U	0.42 UJ
2-Butanone	300	22 J	18 J	63	16 U	3.2 U	3.9 U	2.6 U	32 U	2.9 U	3.2 UJ
Carbon Tetrachloride	600	0.53 U	0.44 U	0.38 U	2.1 U	0.41 U	0.51 U	0.35 U	4.1 U	0.38 U	0.41 UJ
cis-1,2-Dichloroethene	NC	0.63 U	0.53 U	0.45 U	2.5 U	0.49 U	0.61 U	0.41 U	4.9 U	0.45 U	0.49 UJ
Chloroform	300	0.42 U	0.35 U	0.3 U	1.7 U	0.33 U	0.41 U	0.28 U	3.3 U	0.3 U	0.33 UJ
1,1,1-Trichloroethane	800	0.48 U	0.4 U	0.35 U	1.9 U	0.38 U	0.47 U	0.32 U	3.8 U	0.35 U	0.38 UJ
Methylcyclohexane	NC	0.63 U	0.53 U	0.46 U	2.5 U	0.49 U	0.61 U	0.41 U	4.9 U	0.46 U	0.49 UJ
Benzene	60	***940*** D	0.3 U	4.8 J	1.4 U	0.28 U	0.35 U	9.9	2.8 U	5 J	13 J
1,2-Dichloroethane	200	5.5 U	4.6 U	3.9 U	22 U	4.3 U	5.3 U	3.6 U	43 U	3.9 U	4.3 UJ
Trichloroethene	700	0.57 U	0.48 U	0.41 U	2.3 U	0.44 U	0.55 U	0.37 U	4.4 U	0.41 U	0.44 UJ
1,2-Dichloropropane	NC	0.6 U	0.5 U	0.43 U	2.4 U	0.47 U	0.58 U	0.39 U	4.7 U	0.43 U	0.47 UJ
Bromodichloromethane	NC	0.59 U	0.5 U	0.43 U	2.3 U	0.46 U	0.57 U	0.39 U	4.6 U	0.43 U	0.46 UJ
4-Methyl-2-Pentanone	1,000	4.3 U	3.6 U	3.1 U	17 U	3.3 U	4.1 U	2.8 U	33 U	3.1 U	3.3 UJ
Toluene	1,500	13	0.39 U	0.33 U	1.8 U	0.36 U	0.45 U	5.3 J	3.6 U	4.1 J	5.7 J
t-1,3-Dichloropropene	NC	0.46 U	0.38 U	0.33 U	1.8 U	0.36 U	0.44 U	0.3 U	3.6 U	0.33 U	0.36 UJ
cis-1,3-Dichloropropene	NC	0.35 U	0.29 U	0.25 U	1.4 U	0.27 U	0.33 U	0.23 U	2.7 U	0.25 U	0.27 UJ
1,1,2-Trichloroethane	NC	0.9 U	0.76 U	0.65 U	3.6 U	0.7 U	0.87 U	0.59 U	7 U	0.65 U	0.7 UJ
2-Hexanone	NC	5.7 U	11 J	4.1 U	23 U	4.4 U	5.5 U	3.7 U	44 U	4.1 U	4.4 UJ
Dibromochloromethane	NA	0.52 U	0.43 U	0.37 U	2 U	0.4 U	0.5 U	0.34 U	4 U	0.37 U	0.4 UJ
1,2-Dibromoethane	NC	0.74 U	0.62 U	0.53 U	2.9 U	0.58 U	0.72 U	0.48 U	5.8 U	0.53 U	0.58 UJ
Tetrachloroethene	1,400	1.1 U	0.95 U	0.81 U	4.5 U	0.88 U	1.1 U	0.74 U	8.8 U	0.81 U	0.88 UJ
Chlorobenzene	1,700	0.63 U	0.53 U	0.45 U	2.5 U	0.49 U	0.61 U	0.41 U	4.9 U	0.45 U	0.49 UJ
Ethyl Benzene	5,500	100	0.37 U	0.32 U	1.8 U	9.2	0.43 U	0.29 U	3.5 U	0.32 U	0.35 UJ
m/p-Xylenes	1,200	90	0.77 U	0.66 U	3.6 U	12	0.89 U	0.6 U	130	0.66 U	0.71 UJ
o-Xylene	600	50	0.64 U	0.55 U	3 U	16	0.74 U	0.5 U	120	0.55 U	0.6 UJ
Styrene	NC	0.56 U	0.47 U	0.4 U	2.2 U	0.43 U	0.54 U	0.36 U	4.3 U	0.4 U	0.43 UJ
Bromoform	NC	0.53 U	0.45 U	0.38 U	2.1 U	0.42 U	0.52 U	0.35 U	4.2 U	0.38 U	0.42 UJ
Isopropylbenzene	2,300	17	0.55 U	0.47 U	2.6 R	9.8	0.64 U	0.43 U	21 R	0.47 R	0.51 R
1,1,2,2-Tetrachloroethane	600	0.94 U	0.79 U	0.68 U	3.7 U	0.73 U	0.91 U	0.62 U	7.3 U	0.68 U	0.73 R
1,3-Dichlorobenzene	1,600	0.38 U	0.31 U	0.27 U	1.5 U	0.29 U	0.36 U	0.25 U	2.9 U	0.27 U	0.29 R
1,4-Dichlorobenzene	8,500	0.63 U	0.52 U	0.45 U	2.5 U	0.49 U	0.61 U	0.41 U	4.9 U	0.45 U	0.49 R
1,2-Dichlorobenzene	7,900	U	1.5 J	0.52 U	2.9 U	0.57 U	0.71 U	0.48 U	5.7 U	0.52 U	0.57 R
1,2-Dibromo-3-Chloropropane	NC	1.2 U	1 U	0.87 U	4.8 U	0.94 U	1.2 U	0.79 U	9.4 U	0.87 U	0.94 R
1,2,4-Trichlorobenzene	3,400	0.45 U	3.4 J	0.32 U	1.8 U	0.35 U	0.43 U	0.29 U	3.5 U	0.32 U	0.35 R
Total Confident Conc. VOC	10,000	1,505.1	181.3	307.8	ND	47.0	146.0	15.2	286.0	9.1	18.7

Summary of Volatile Organic Compounds in Subsurface Soil -Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-26

Sample Location		SB-36	SB-36	SB-38	SB-38	SB-38	SB-38	SB-39	SB-39	SB-40B	SB-40B
Sample Interval (Feet bgs)		25 to 27	33 to 35	3 to 4	4 to 5	13 to 15	21 to 23	7.5 to 8	22 to 23	33 to 35	35 to 37
Sampling Date		5/8/04	5/8/04	4/25/04	4/25/04	05/16/04	05/16/04	07/21/04	07/21/04	07/27/04	07/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dichlorodifluoromethane	NC	55 U	2 U	1.6 U	1.7 U	1.8 U	2 U	1.5 U	1.7 U	1.5 U	20 U
Chloromethane	NC	110 U	0.53 U	0.44 U	0.45 U	0.49 U	0.53 U	0.41 U	0.47 U	0.41 U	5.3 U
Vinyl Chloride	200	44 U	0.37 U	0.31 U	0.32 U	0.35 U	0.37 U	0.29 U	0.33 U	0.29 U	3.7 U
Bromomethane	NC	130 U	1.1 U	0.94 U	0.96 U	1 U	1.1 U	0.87 U	1 U	0.87 U	11 U
Chloroethane	1,900	150 U	0.83 U	0.7 U	0.71 U	0.77 U	0.83 U	0.65 U	0.74 U	0.65 U	8.3 U
Trichlorofluoromethane	NC	95 U	3.9 U	3.3 U	3.3 U	3.6 U	3.9 U	3 U	3.5 U	3 U	39 U
1,1,2-Trichlorotrifluoroethane	6,000	110 U	0.73 U	0.61 U	0.62 U	0.68 U	0.73 U	0.57 U	0.65 U	0.57 U	7.3 U
1,1-Dichloroethene	400	53 U	0.34 U	0.29 U	0.29 U	0.32 U	0.34 U	0.27 U	0.3 U	0.27 U	3.4 U
Acetone	200	540 U	12 U	9.9 U	10 U	55 J	12 U	100	170	37 J	120 U
Carbon Disulfide	2,700	64 U	0.16 U	0.13 U	0.14 U	1.7 J	0.16 U	61 J	7.9 J	2.8 J	1.6 U
Methyl tert-butyl Ether	120	59 U	0.36 U	0.31 U	0.31 U	0.34 U	0.36 U	0.28 U	0.32 U	0.28 U	3.6 U
Methyl Acetate	NC	140 U	2 U	1.7 U	1.7 U	1.9 U	2 U	1.6 U	1.8 U	1.6 U	20 U
Methylene Chloride	100	100 U	1.1 U	0.91 U	0.92 U	3.7 J	1.1 U	13 J	9.3 J	0.84 U	11 U
trans-1,2-Dichloroethene	300	85 U	0.59 U	0.49 U	0.5 U	0.55 U	0.59 U	0.46 U	0.52 U	0.46 U	5.9 U
1,1-Dichloroethane	200	35 U	0.56 U	0.47 U	0.48 U	0.52 U	0.56 U	0.44 U	0.5 U	0.44 U	5.6 U
Cyclohexane	NC	60 U	0.48 U	0.41 U	0.41 U	0.45 U	0.48 U	0.38 U	0.43 U	0.38 U	4.8 U
2-Butanone	300	470 U	3.6 U	3 U	3.1 U	9.8 J	3.6 U	13 J	3.2 U	2.8 U	36 U
Carbon Tetrachloride	600	77 U	0.47 U	0.4 U	0.4 U	0.44 U	0.47 U	0.37 U	0.42 U	0.37 U	4.7 U
cis-1,2-Dichloroethene	NC	130 U	0.56 U	0.47 U	0.48 U	0.52 U	0.56 U	0.43 U	0.5 U	0.43 U	5.6 U
Chloroform	300	95 U	0.38 U	0.32 U	0.32 U	0.35 U	0.38 U	0.29 U	0.33 U	0.29 U	3.8 U
1,1,1-Trichloroethane	800	67 U	0.43 U	0.36 U	0.37 U	0.4 U	0.43 U	0.33 U	0.38 U	0.33 U	4.3 U
Methylcyclohexane	NC	1000	0.56 U	0.47 U	0.48 U	0.52 U	0.56 U	0.44 U	0.5 U	0.44 U	51 J
Benzene	60	***43000*** D	***2000*** D	28	30	2.1 J	7.1 J	0.25 U	0.28 U	0.25 U	***290***
1,2-Dichloroethane	200	53 U	4.9 U	4.1 U	4.2 U	4.5 U	4.9 U	3.8 U	4.3 U	3.8 U	49 U
Trichloroethene	700	110 U	0.51 U	0.43 U	0.43 U	0.47 U	0.51 U	0.4 U	0.45 U	0.4 U	5.1 U
1,2-Dichloropropane	NC	52 U	0.53 U	0.45 U	0.45 U	0.49 U	0.53 U	0.41 U	0.47 U	0.41 U	5.3 U
Bromodichloromethane	NC	57 U	0.53 U	0.44 U	0.45 U	0.49 U	0.53 U	0.41 U	0.47 U	0.41 U	5.3 U
4-Methyl-2-Pentanone	1,000	220 U	3.8 U	3.2 U	3.2 U	3.5 U	3.8 U	3 U	3.4 U	3 U	38 U
Toluene	1,500	***17000***	11	17 J	6.4 J	0.38 U	0.41 U	0.32 U	0.36 U	0.32 U	220
t-1,3-Dichloropropene	NC	70 U	0.41 U	0.34 U	0.35 U	0.38 U	0.41 U	0.32 U	0.36 U	0.32 U	4.1 U
cis-1,3-Dichloropropene	NC	25 U	0.31 U	0.26 U	0.26 U	0.29 U	0.31 U	0.24 U	0.27 U	0.24 U	3.1 U
1,1,2-Trichloroethane	NC	85 U	0.8 U	0.67 U	0.68 U	0.74 U	0.8 U	0.62 U	0.71 U	0.62 U	8 U
2-Hexanone	NC	110 U	5.1 U	4.3 U	4.3 U	4.7 U	5.1 U	3.9 U	4.5 U	3.9 U	51 U
Dibromochloromethane	NA	62 U	0.46 U	0.39 U	0.39 U	0.43 U	0.46 U	0.36 U	0.41 U	0.36 U	4.6 U
1,2-Dibromoethane	NC	100 U	0.66 U	0.55 U	0.56 U	0.61 U	0.66 U	0.51 U	0.59 U	0.51 U	6.6 U
Tetrachloroethene	1,400	54 U	1 U	0.85 U	0.86 U	0.93 U	1 U	4.5 J	3.7 J	0.78 U	10 U
Chlorobenzene	1,700	61 U	0.56 U	0.47 U	0.48 U	0.52 U	0.56 U	0.43 U	0.5 U	0.43 U	5.6 U
Ethyl Benzene	5,500	***31000***	3.7 J	0.33 U	0.34 U	0.37 U	0.4 U	0.31 U	0.35 U	0.31 U	1300 D
m/p-Xylenes	1,200	***45000***	4.3 J	8.1	0.69 U	0.76 U	0.82 U	0.63 U	0.72 U	0.63 U	***4400***
o-Xylene	600	***16000***	0.69 U	0.58 U	0.58 U	0.64 U	0.69 U	0.53 U	0.61 U	0.53 U	***2700***
Styrene	NC	3300	0.5 U	0.42 U	0.42 U	0.46 U	0.5 U	0.39 U	0.44 U	0.39 U	5 U
Bromoform	NC	41 U	0.47 U	0.4 U	0.4 U	0.44 U	0.47 U	0.37 U	0.42 U	0.37 U	4.7 U
Isopropylbenzene	2,300	1200	0.59 R	0.49 U	0.5 U	0.54 U	0.59 U	0.46 U	0.52 U	0.46 U	690
1,1,2,2-Tetrachloroethane	600	81 U	0.84 UJ	0.71 U	0.71 U	0.78 U	0.84 U	0.65 U	0.75 U	0.65 U	8.4 U
1,3-Dichlorobenzene	1,600	61 U	0.33 UJ	0.28 U	0.29 U	0.31 U	0.33 U	0.26 U	0.3 U	0.26 U	3.3 U
1,4-Dichlorobenzene	8,500	64 U	0.56 UJ	0.47 U	0.47 U	0.52 U	0.56 U	0.43 U	0.49 U	0.43 U	5.6 U
1,2-Dichlorobenzene	7,900	60 U	0.65 UJ	0.55 U	0.55 U	0.6 U	0.65 U	0.5 U	0.58 U	0.5 U	6.5 U
1,2-Dibromo-3-Chloropropane	NC	150 U	1.1 UJ	0.9 U	0.91 U	1 U	1.1 U	0.84 U	0.95 U	0.84 U	11 U
1,2,4-Trichlorobenzene	3,400	47 U	0.4 UJ	0.33 U	0.34 U	0.37 U	0.4 U	0.31 U	0.35 U	0.31 U	4 U
Total Confident Conc. VOC	10,000	***157,500***	2,019	53.1	36.4	60.8	7.1	191.5	190.9	39.8	8,351

Summary of Volatile Organic Compounds in Subsurface Soil -Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-26

Sample Location		SB-40B	MW-40A	B-90	B-91	B-91	B-91	B-92	B-92	B-92
Sample Interval (Feet bgs)		41 to 43	4 to 5	4 to 5	4 to 5	8 to 11	11 to 15	0 to 1	3	9 to 13
Sampling Date		07/27/04	07/06/04	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)	TAGM RSCO	ug/Kg	ug/Kg							
Dichlorodifluoromethane	NC	1.8 UJ	1.6 U	4.5 U	4.6 U	5.1 U	5 U	1.1 U	5.8 U	1.3 U
Chloromethane	NC	0.49 UJ	0.42 U	4.5 U	4.5 U	5.1 U	5 U	1.1 U	5.8 U	1.3 U
Vinyl Chloride	200	0.35 UJ	0.3 U	4.3 U	4.4 U	4.9 U	4.8 U	1 U	5.6 U	1.2 U
Bromomethane	NC	1.1 UJ	0.91 U	11 U	11 U	12 U	12 U	2.5 U	14 U	3 U
Chloroethane	1,900	0.78 UJ	0.67 U	11 U	11 U	13 U	13 U	2.6 U	14 U	3.1 U
Trichlorofluoromethane	NC	3.7 UJ	3.2 U	6.6 U	6.6 U	7.4 U	7.3 U	1.5 U	8.4 U	1.8 U
1,1,2-Trichlorotrifluoroethane	6,000	0.69 UJ	0.59 U	3.5 U	3.5 U	4 U	3.9 U	0.82 U	4.5 U	0.98 U
1,1-Dichloroethene	400	0.32 UJ	0.28 U	3 U	3 U	3.4 U	3.4 U	0.71 U	3.9 U	0.84 U
Acetone	200	11 UJ	9.6 U	18 U	18 U	20 U	20 U	4.1 U	23 U	5 U
Carbon Disulfide	2,700	0.15 UJ	0.13 U	1.9 U	2 U	2.2 U	2.2 U	0.45 U	2.5 U	0.54 U
Methyl tert-butyl Ether	120	0.34 UJ	0.29 U	1.9 U	2 U	2.2 U	2.2 U	0.45 U	2.5 U	0.54 U
Methyl Acetate	NC	1.9 UJ	1.6 U	4.6 U	4.6 U	5.1 U	5.1 U	1.1 U	5.8 U	1.3 U
Methylene Chloride	100	1 UJ	3.5 J	9.6 U	9.7 U	11 U	11 U	2.2 U	12 U	2.7 U
trans-1,2-Dichloroethene	300	0.55 UJ	0.48 U	3.4 U	3.4 U	3.8 U	3.8 U	0.79 U	4.3 U	0.94 U
1,1-Dichloroethane	200	0.53 UJ	0.45 U	1.4 U	1.4 U	1.6 U	1.6 U	0.33 U	1.8 U	0.4 U
Cyclohexane	NC	0.46 UJ	0.39 U	1.7 U	1.7 U	1.9 U	1.9 U	0.4 U	2.2 U	0.48 U
2-Butanone	300	3.4 UJ	2.9 U	15 U	15 U	17 U	17 U	3.5 U	19 U	4.2 U
Carbon Tetrachloride	600	0.44 UJ	0.38 U	2.3 U	2.4 U	2.6 U	2.6 U	0.55 U	3 U	0.65 U
cis-1,2-Dichloroethene	NC	0.53 UJ	0.45 U	1.7 U	1.7 U	1.9 U	1.9 U	0.4 U	2.2 U	0.48 U
Chloroform	300	0.35 UJ	0.3 U	1.8 U	1.9 U	2.1 U	2 U	0.43 U	2.4 U	0.51 U
1,1,1-Trichloroethane	800	0.4 UJ	0.35 U	2.2 U	2.2 U	2.5 U	2.5 U	0.52 U	2.8 U	0.62 U
Methylcyclohexane	NC	0.53 UJ	0.46 U	2.2 U	2.2 U	2.5 U	2.5 U	0.52 U	2.8 U	0.62 U
Benzene	60	0.3 UJ	0.26 U	2.1 U	2.1 U	2.4 U	2.3 U	0.49 U	2.7 U	0.59 U
1,2-Dichloroethane	200	4.6 UJ	3.9 U	1.6 U	1.6 U	1.8 U	1.8 U	0.38 U	2.1 U	0.45 U
Trichloroethene	700	0.48 UJ	0.41 U	1.6 U	1.6 U	1.8 U	1.8 U	0.38 U	2.1 U	0.45 U
1,2-Dichloropropane	NC	0.5 UJ	0.43 U	2.1 U	2.1 U	2.4 U	2.3 U	0.49 U	2.7 U	0.58 U
Bromodichloromethane	NC	0.5 UJ	0.43 U	1.8 U	1.8 U	2 U	2 U	0.41 U	2.3 U	0.49 U
4-Methyl-2-Pentanone	1,000	3.6 UJ	3.1 U	10 U	10 U	12 U	12 U	2.4 U	13 U	2.9 U
Toluene	1,500	0.39 UJ	0.33 U	2.1 U	2.2 U	2.4 U	2.4 U	0.5 U	2.7 U	0.6 U
t-1,3-Dichloropropene	NC	0.38 UJ	0.33 U	1.9 U	1.9 U	2.2 U	2.1 U	0.45 U	2.5 U	0.53 U
cis-1,3-Dichloropropene	NC	0.29 UJ	0.25 U	1.7 U	1.8 U	2 U	1.9 U	0.41 U	2.2 U	0.49 U
1,1,2-Trichloroethane	NC	0.76 UJ	0.65 U	1.5 U	1.6 U	1.8 U	1.7 U	0.36 U	2 U	0.43 U
2-Hexanone	NC	4.8 UJ	4.1 U	19 U	19 U	21 U	21 U	4.4 U	24 U	5.3 U
Dibromochloromethane	NA	0.43 UJ	0.37 U	1.2 U	1.2 U	1.4 U	1.4 U	0.28 U	1.6 U	0.34 U
1,2-Dibromoethane	NC	0.62 UJ	0.53 U	2.1 U	2.1 U	2.4 U	2.4 U	0.5 U	2.7 U	0.59 U
Tetrachloroethene	1,400	0.95 UJ	0.81 U	3.8 U	3.9 U	4.3 U	4.3 U	0.9 U	4.9 U	1.1 U
Chlorobenzene	1,700	0.53 UJ	0.45 U	1.9 U	1.9 U	2.2 U	2.1 U	0.45 U	2.4 U	0.53 U
Ethyl Benzene	5,500	0.37 UJ	0.32 U	1.9 U	1.9 U	2.1 U	2.1 U	0.44 U	2.4 U	0.52 U
m/p-Xylenes	1,200	0.77 UJ	0.66 U	4.6 U	4.6 U	5.1 U	5.1 U	1.1 U	5.8 U	1.3 U
o-Xylene	600	0.64 UJ	0.55 U	2 U	2 U	2.3 U	2.3 U	0.47 U	2.6 U	0.57 U
Styrene	NC	0.47 UJ	0.4 U	2.4 U	2.4 U	2.7 U	2.7 U	0.57 U	3.1 U	0.68 U
Bromoform	NC	0.45 UJ	0.38 U	1.6 U	1.6 U	1.8 U	1.8 U	0.38 U	2.1 U	0.46 U
Isopropylbenzene	2,300	0.55 R	0.47 U	2.2 U	2.2 U	2.5 U	2.4 U	0.51 U	2.8 U	0.61 U
1,1,2,2-Tetrachloroethane	600	0.79 R	0.68 U	1.6 U	1.7 U	1.9 U	1.8 U	0.38 U	2.1 U	0.46 U
1,3-Dichlorobenzene	1,600	0.31 R	0.27 U	2.9 U	3 U	3.3 U	3.3 U	0.69 U	3.8 U	0.82 U
1,4-Dichlorobenzene	8,500	0.52 R	0.45 U	2.9 U	2.9 U	3.2 U	3.2 U	0.67 U	3.7 U	0.8 U
1,2-Dichlorobenzene	7,900	0.61 R	0.52 U	2 U	2.1 U	2.3 U	2.3 U	0.48 U	2.6 U	0.57 U
1,2-Dibromo-3-Chloropropane	NC	1 R	0.87 U	5 U	5 U	5.6 U	5.5 U	1.2 U	6.4 U	1.4 U
1,2,4-Trichlorobenzene	3,400	0.37 R	0.32 U	3.6 U	3.6 U	4.1 U	4 U	0.84 U	4.6 U	1 U
Total Confident Conc. VOC	10,000	ND	3.5	ND	ND	ND	ND	ND	ND	ND

Summary of Volatile Organic Compounds in Subsurface Soil -Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-26

Sample Location Sample Interval (Feet bgs) Sampling Date Units Volatile Organic Compounds (ug/Kg)	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	39	0	0%	0	0%	< 1.1	< 55
Chloromethane	NC	39	1	3%	0	0%	< 0.38	< 110
Vinyl Chloride	200	39	0	0%	0	0%	< 0.27	< 44
Bromomethane	NC	39	0	0%	0	0%	< 0.82	< 130
Chloroethane	1,900	39	0	0%	0	0%	< 0.61	< 150
Trichlorofluoromethane	NC	39	0	0%	0	0%	< 1.5	< 95
1,1,2-Trichlorotrifluoroethane	6,000	39	0	0%	0	0%	< 0.53	< 110
1,1-Dichloroethene	400	39	0	0%	0	0%	< 0.25	< 53
Acetone	200	39	12	31%	2	5%	< 4.1	< 540
Carbon Disulfide	2,700	39	10	26%	0	0%	< 0.12	< 64
Methyl tert-butyl Ether	120	39	0	0%	0	0%	< 0.27	< 59
Methyl Acetate	NC	39	1	3%	0	0%	< 1.1	< 140
Methylene Chloride	100	39	10	26%	0	0%	< 0.79	< 100
trans-1,2-Dichloroethene	300	39	0	0%	0	0%	< 0.43	< 85
1,1-Dichloroethane	200	39	0	0%	0	0%	< 0.33	< 35
Cyclohexane	NC	39	0	0%	0	0%	< 0.35	< 60
2-Butanone	300	39	6	15%	0	0%	< 2.6	< 470
Carbon Tetrachloride	600	39	0	0%	0	0%	< 0.35	< 77
cis-1,2-Dichloroethene	NC	39	0	0%	0	0%	< 0.4	< 130
Chloroform	300	39	1	3%	0	0%	< 0.28	< 95
1,1,1-Trichloroethane	800	39	0	0%	0	0%	< 0.32	< 67
Methylcyclohexane	NC	39	3	8%	0	0%	< 0.41	1,000
Benzene	60	39	17	44%	5	13%	< 0.24	43,000
1,2-Dichloroethane	200	39	0	0%	0	0%	< 0.38	< 53
Trichloroethene	700	39	0	0%	0	0%	< 0.37	< 110
1,2-Dichloropropane	NC	39	0	0%	0	0%	< 0.39	< 52
Bromodichloromethane	NC	39	0	0%	0	0%	< 0.39	< 57
4-Methyl-2-Pentanone	1,000	39	0	0%	0	0%	< 2.4	< 220
Toluene	1,500	39	13	33%	1	3%	< 0.3	17,000
t-1,3-Dichloropropene	NC	39	0	0%	0	0%	< 0.3	< 70
cis-1,3-Dichloropropene	NC	39	0	0%	0	0%	< 0.23	< 25
1,1,2-Trichloroethane	NC	39	0	0%	0	0%	< 0.36	< 85
2-Hexanone	NC	39	1	3%	0	0%	< 3.7	< 110
Dibromochloromethane	NA	39	0	0%	0	0%	< 0.28	< 62
1,2-Dibromoethane	NC	39	0	0%	0	0%	< 0.48	< 100
Tetrachloroethene	1,400	39	3	8%	0	0%	< 0.74	70
Chlorobenzene	1,700	39	0	0%	0	0%	< 0.41	< 61
Ethyl Benzene	5,500	39	7	18%	1	3%	< 0.29	31,000
m/p-Xylenes	1,200	39	10	26%	2	5%	< 0.6	45,000
o-Xylene	600	39	8	21%	2	5%	< 0.47	16,000
Styrene	NC	39	1	3%	0	0%	< 0.36	3,300
Bromoform	NC	39	0	0%	0	0%	< 0.35	< 41
Isopropylbenzene	2,300	39	5	13%	0	0%	< 0.43	1,200
1,1,2,2-Tetrachloroethane	600	39	0	0%	0	0%	< 0.38	< 81
1,3-Dichlorobenzene	1,600	39	0	0%	0	0%	< 0.25	< 61
1,4-Dichlorobenzene	8,500	39	0	0%	0	0%	< 0.41	< 64
1,2-Dichlorobenzene	7,900	38	0	0%	0	0%	< 0.48	< 60
1,2-Dibromo-3-Chloropropane	NC	39	0	0%	0	0%	< 0.79	< 150
1,2,4-Trichlorobenzene	3,400	39	1	3%	0	0%	< 0.29	< 47
Total Confident Conc. VOC	10,000							

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		TP-4	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33	SB-33
Sample Interval (Feet bgs)		5 to 6	7.1 to 7.7	21 to 23	25 to 27	4 to 5	11 to 13	21 to 23	4 to 5	11 to 13	13 to 15
Sampling Date		5/8/04	07/12/04	10/09/04	10/09/04	4/25/04	05/22/04	05/22/04	4/25/04	5/16/04	5/16/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	38 U	52 UJ	57 U	53 U	77 U	44 U	39 U	38 U	43 U	38 U
Phenol	30 or MDL	16 U	22 UJ	24 U	23 U	33 U	19 U	16 U	16 U	18 U	16 U
bis(2-Chloroethyl)ether	NC	19 U	26 UJ	29 U	27 U	39 U	22 U	19 U	19 U	21 U	19 U
2-Chlorophenol	800	17 U	23 UJ	25 U	23 U	34 U	19 U	17 U	17 U	19 U	17 U
2-Methylphenol	100 or MDL	24 U	34 UJ	37 U	34 U	50 U	28 U	25 U	24 U	27 U	24 U
2,2-oxybis(1-Chloropropane)	NC	21 U	29 UJ	32 U	29 U	42 U	24 U	21 U	21 U	24 U	21 U
Acetophenone	NC	20 U	28 UJ	31 U	28 U	41 U	23 U	21 U	20 U	23 U	20 U
3+4-Methylphenols	900	18 U	24 UJ	27 U	25 U	36 U	21 U	18 U	18 U	20 U	18 U
N-Nitroso-di-n-propylamine	NC	17 U	23 UJ	26 U	24 U	35 U	20 U	17 U	17 U	19 U	17 U
Hexachloroethane	NC	18 U	25 UJ	28 U	26 U	37 U	21 U	19 U	18 U	21 U	18 U
Nitrobenzene	200 or MDL	20 U	27 UJ	30 U	28 U	40 U	23 U	20 U	19 U	22 U	20 U
Isophorone	4,400	14 U	20 UJ	22 U	20 U	29 U	17 U	15 U	14 U	16 U	14 U
2-Nitrophenol	330 or MDL	15 U	21 UJ	24 U	22 U	32 U	18 U	16 U	15 U	17 U	16 U
2,4-Dimethylphenol	NC	21 U	29 UJ	32 U	29 U	42 U	24 U	21 U	21 U	24 U	21 U
bis(2-Chloroethoxy)methane	NC	18 U	24 UJ	27 U	25 U	36 U	20 U	18 U	18 U	20 U	18 U
2,4-Dichlorophenol	400	13 U	19 UJ	21 U	19 U	27 U	16 U	14 U	13 U	15 U	14 U
Naphthalene	13,000	140 J	440 J	4300	12 U	140 J	180 J	8.6 U	2800 J	9.5 U	8.4 U
4-Chloroaniline	220 or MDL	140 U	200 UJ	220 U	200 U	290 U	170 U	150 U	140 U	160 U	140 U
Hexachlorobutadiene	NC	13 U	19 UJ	21 U	19 U	27 U	16 U	14 U	13 U	15 U	14 U
Caprolatam	NC	14 U	20 UJ	22 U	20 U	29 U	16 U	15 U	14 U	16 U	14 U
4-Chloro-3-methylphenol	240 or MDL	11 U	16 UJ	17 U	16 U	23 U	13 U	12 U	11 U	13 U	11 U
2-Methylnaphthalene	36,400	65 J	140 J	540 J	9.3 U	14 U	410 J	6.8 U	390 J	7.5 U	6.7 U
Hexachlorocyclopentadiene	NC	9.6 UJ	13 UJ	15 UJ	14 UJ	20 UJ	11 UJ	9.9 UJ	9.6 UJ	11 UJ	9.7 UJ
2,4,6-Trichlorophenol	NC	14 U	19 UJ	21 U	20 U	28 U	16 U	14 U	14 U	16 U	14 U
2,4,5-Trichlorophenol	100	25 U	35 UJ	39 U	36 U	52 U	30 U	26 U	25 U	29 U	26 U
1,1-Biphenyl	NC	11 U	16 UJ	67 J	16 U	23 U	59 J	12 U	280 J	13 U	11 U
2-Chloronaphthalene	NC	8 U	11 UJ	12 U	11 U	16 U	9.3 U	8.2 U	8 U	9.1 U	8.1 U
2-Nitroaniline	430 or MDL	14 U	19 UJ	21 U	20 U	28 U	16 U	14 U	14 U	16 U	14 U
Dimethylphthalate	2,000	9.2 U	13 UJ	14 U	13 U	19 U	11 U	9.4 U	9.2 U	10 U	9.2 U
Acenaphthylene	41,000	130 J	16 UJ	18 U	16 U	23 U	13 U	12 U	330 J	13 U	12 U
2,6-Dinitrotoluene	1,000	16 U	23 UJ	25 U	23 U	33 U	19 U	17 U	16 U	19 U	17 U
3-Nitroaniline	500 or MDL	62 U	86 UJ	94 U	87 U	130 U	72 U	64 U	62 U	70 U	62 U
Acenaphthene	50,000	250 J	110 J	230 J	12 U	17 U	9.9 U	8.7 U	530 J	47 J	190 J
2,4-Dinitrophenol	200 or MDL	17 UJ	23 UJ	26 U	24 U	35 U	20 U	17 U	17 U	19 U	17 U
4-Nitrophenol	100 or MDL	38 U	52 UJ	57 U	53 U	77 U	44 U	39 U	37 U	42 U	38 U
Dibenzofuran	6,200	180 J	17 UJ	110 J	18 U	26 U	15 U	13 U	860 J	14 U	13 U
2,4-Dinitrotoluene	1,000	7.7 U	11 UJ	12 U	11 U	16 U	8.9 U	7.9 U	7.7 U	8.7 U	7.7 U
Diethylphthalate	7,100	12 U	17 UJ	18 U	17 U	25 U	14 U	12 U	12 U	160 J	120 J
4-Chlorophenyl-phenylether	NC	9.5 U	13 UJ	15 U	13 U	19 U	11 U	9.8 U	9.5 U	11 U	9.6 U
Fluorene	50,000	280 J	15 UJ	150 J	15 U	130 J	49 J	11 U	1700 J	12 U	11 U
4-Nitroaniline	NC	30 U	42 UJ	46 U	42 U	61 U	35 U	31 U	30 U	34 U	30 U
4,6-Dinitro-2-methylphenol	NC	22 UJ	31 UJ	34 U	31 U	46 U	26 U	23 U	22 U	25 U	22 U
N-Nitrosodiphenylamine	NC	9.8 U	13 UJ	15 U	14 U	20 U	11 U	10 U	9.7 U	11 U	9.8 U
4-Bromophenyl-phenylether	NC	10 U	14 UJ	15 U	14 U	21 U	12 U	10 U	10 U	11 U	10 U
Hexachlorobenzene	410	7.2 U	10 UJ	11 U	10 U	15 U	8.4 U	7.4 U	7.2 U	8.1 U	7.3 U
Atrazine	NC	12 U	16 UJ	18 U	17 U	24 U	14 U	12 U	12 U	13 U	12 U
Pentachlorophenol	1000 or MDL	12 U	17 UJ	18 U	17 U	24 U	14 U	12 U	12 U	14 U	12 U
Phenanthrene	50,000	3800 D	490 J	140 J	12 U	670 J	210 J	110 J	4900 DJ	61 J	110 J
Anthracene	50,000	760	210 J	14 U	13 U	200 J	49 J	9.4 U	920 J	10 U	58 J
Carbazole	NC	270 J	12 UJ	220 J	12 U	82 J	9.9 U	8.7 U	310 J	9.6 U	8.5 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		TP-4	SB-31	SB-31	SB-31	SB-32	SB-32	SB-32	SB-33	SB-33	SB-33
Sample Interval (Feet bgs)		5 to 6	7.1 to 7.7	21 to 23	25 to 27	4 to 5	11 to 13	21 to 23	4 to 5	11 to 13	13 to 15
Sampling Date		5/8/04	07/12/04	10/09/04	10/09/04	4/25/04	05/22/04	05/22/04	4/25/04	5/16/04	5/16/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Di-n-butylphthalate	8,100	5.1 U	7.1 UJ	7.8 U	7.2 U	10 U	1600	89 J	5.1 U	***39000*** D	260 J
Fluoranthene	50,000	5200 D	560 J	8.1 U	7.5 U	740 J	190 J	81 J	2600 J	65 J	120 J
Pyrene	50,000	4100 D	730 J	10 U	9.7 U	690 J	220 J	96 J	2800	71 J	140 J
Butylbenzylphthalate	50,000	13 U	18 UJ	20 U	18 U	26 U	15 U	13 U	13 U	15 U	13 U
3,3-Dichlorobenzidine	NA	62 U	85 UJ	94 U	87 U	130 U	72 U	63 U	62 U	70 U	62 U
Benzo(a)anthracene	224 or MDL	***2100***	***490*** J	8.8 U	8.2 U	***650*** J	200 J	74 J	***1700*** J	6.6 U	70 J
Chrysene	400	***2000***	***440*** J	19 U	17 U	***550*** J	200 J	73 J	***1300***	14 U	69 J
bis(2-Ethylhexyl)phthalate	50,000	8.8 U	12 UJ	13 U	150 J	110 J	49 J	9.1 U	170 J	160 J	51 J
Di-n-octyl phthalate	50,000	9.2 U	13 UJ	14 U	13 U	19 U	11 U	9.4 U	9.2 U	10 U	9.2 U
Benzo(b)fluoranthene	1,100	***2400*** J	430 J	31 U	29 U	740 J	240 J	77 J	***1300***	23 U	41 J
Benzo(k)fluoranthene	1,100	***1200***	200 J	20 U	18 U	320 J	100 J	55 J	680	15 U	13 U
Benzo(a)pyrene	61 or MDL	***2200***	***270*** J	10 U	9.3 U	***770*** J	***240*** J	***110*** J	***1300***	7.5 U	50 J
Indeno(1,2,3-cd)pyrene	3,200	690 J	210 J	14 U	13 U	240 J	53 J	56 J	210 J	11 U	9.4 U
Dibenz(a,h)anthracene	14 or MDL	***270*** J	16 UJ	17 U	16 U	23 U	13 U	12 U	***63*** J	13 U	11 U
Benzo(g,h,i)perylene	50,000	750 J	190 J	25 U	24 U	310 J	68 J	57 J	310 J	19 U	17 U
Total Confident Conc. SVOC	500,000	26,785	4,910	5,757	150	6,342	4,117	878	25,453	39,564	1,279
Carcinogenic SVOCs in BaP Equivalents		3,021	389.4	ND	ND	941.7	292.3	132	1,703.8	ND	61.8

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-33	SB-33	SB-34	SB-34	SB-34	SB-34	SB-36	SB-36	SB-36	SB-73
Sample Interval (Feet bgs)		35 to 37	39 to 41	3 to 4	4 to 5	20.5 to 21	28.5 to 29	3 to 4	5 to 7	17 to 19	17 to 19
Sampling Date		5/16/04	5/16/04	5/10/04	5/10/04	08/10/04	08/10/04	4/25/04	5/8/04	5/8/04	5/8/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										Duplicate
Benzaldehyde	NC	57 U	48 U	41 U	45 U	44 U	55 U	37 U	450 U	41 U	44 U
Phenol	30 or MDL	24 U	20 U	17 U	19 U	19 U	24 U	16 U	190 U	18 U	19 U
bis(2-Chloroethyl)ether	NC	29 U	24 U	21 U	23 U	22 U	28 U	19 U	220 U	21 U	22 U
2-Chlorophenol	800	25 U	21 U	18 U	20 U	20 U	24 U	17 U	200 U	18 U	20 U
2-Methylphenol	100 or MDL	37 U	31 U	26 U	29 U	29 U	36 U	24 U	290 U	27 U	29 U
2,2-oxybis(1-Chloropropane)	NC	31 U	26 U	23 U	25 U	25 U	30 U	21 U	250 U	23 U	24 U
Acetophenone	NC	30 U	26 U	22 U	24 U	24 U	29 U	20 U	240 U	22 U	24 U
3+4-Methylphenols	900	27 U	22 U	19 U	21 U	21 U	26 U	18 U	210 U	19 U	21 U
N-Nitroso-di-n-propylamine	NC	26 U	22 U	18 U	20 U	20 U	25 U	17 U	200 U	19 U	20 U
Hexachloroethane	NC	28 U	23 U	20 U	22 U	22 U	27 U	18 U	220 U	20 U	22 U
Nitrobenzene	200 or MDL	30 U	25 U	21 U	24 U	23 U	29 U	19 U	230 U	21 U	23 U
Isophorone	4,400	22 U	18 U	16 U	17 U	17 U	21 U	14 U	170 U	16 U	17 U
2-Nitrophenol	330 or MDL	23 U	20 U	17 U	19 U	18 U	23 U	15 U	180 U	17 U	18 U
2,4-Dimethylphenol	NC	31 U	26 U	23 U	25 U	25 U	30 U	21 U	250 U	23 U	24 U
bis(2-Chloroethoxy)methane	NC	27 U	22 U	19 U	21 U	21 U	26 U	17 U	210 U	19 U	21 U
2,4-Dichlorophenol	400	20 U	17 U	15 U	16 U	16 U	20 U	13 U	160 U	15 U	16 U
Naphthalene	13,000	530 J	11 U	9.1 U	250 J	480	390 J	360 J	3700 J	120 J	9.8 U
4-Chloroaniline	220 or MDL	210 U	180 U	160 U	170 U	170 U	210 U	140 U	1700 U	160 U	170 U
Hexachlorobutadiene	NC	20 U	17 U	15 U	16 U	16 U	20 U	13 U	160 U	15 U	16 U
Caprolatam	NC	21 U	18 U	15 U	17 U	17 U	21 U	14 U	170 U	16 U	17 U
4-Chloro-3-methylphenol	240 or MDL	17 U	15 U	12 U	14 U	13 U	17 U	11 U	130 U	12 U	13 U
2-Methylnaphthalene	36,400	64 J	8.4 U	7.2 U	73 J	470	150 J	88 J	9300	7.3 U	7.8 U
Hexachlorocyclopentadiene	NC	15 UJ	12 UJ	11 UJ	12 UJ	11 UJ	14 UJ	9.6 UJ	110 UJ	11 UJ	11 UJ
2,4,6-Trichlorophenol	NC	21 U	18 U	15 U	17 U	16 U	20 U	14 U	160 U	15 U	16 U
2,4,5-Trichlorophenol	100	38 U	32 U	28 U	31 U	30 U	37 U	25 U	300 U	28 U	30 U
1,1-Biphenyl	NC	17 U	15 U	12 U	14 U	13 U	17 U	11 U	920 J	12 U	13 U
2-Chloronaphthalene	NC	12 U	10 U	8.7 U	9.7 U	9.5 U	12 U	8 U	95 U	8.8 U	9.4 U
2-Nitroaniline	430 or MDL	21 U	18 U	15 U	17 U	16 U	20 U	14 U	160 U	15 U	16 U
Dimethylphthalate	2,000	14 U	12 U	10 U	11 U	11 U	13 U	9.1 U	110 U	10 U	11 U
Acenaphthylene	41,000	17 U	15 U	13 U	59 J	14 U	17 U	75 J	140 U	13 U	14 U
2,6-Dinitrotoluene	1,000	25 U	21 U	18 U	20 U	19 U	24 U	16 U	190 U	18 U	19 U
3-Nitroaniline	500 or MDL	94 U	79 U	68 U	75 U	73 U	91 U	62 U	730 U	68 U	73 U
Acenaphthene	50,000	100 J	11 U	9.2 U	110 J	58 J	90 J	400	100 U	9.3 U	10 U
2,4-Dinitrophenol	200 or MDL	26 U	22 U	18 UJ	20 UJ	20 UJ	25 U	17 U	200 UJ	19 UJ	20 UJ
4-Nitrophenol	100 or MDL	57 U	48 U	41 U	45 U	44 U	55 U	37 U	440 U	41 U	44 U
Dibenzofuran	6,200	65 J	16 U	14 U	84 J	15 U	19 U	230 J	150 U	14 U	15 U
2,4-Dinitrotoluene	1,000	12 U	9.8 U	8.4 U	9.3 U	9.1 U	11 U	7.6 U	91 U	8.4 U	9 U
Diethylphthalate	7,100	300 J	200 J	13 U	15 U	14 U	18 U	12 U	140 U	13 U	14 U
4-Chlorophenyl-phenylether	NC	14 U	12 U	10 U	12 U	11 U	14 U	9.5 U	110 U	10 U	11 U
Fluorene	50,000	93 J	14 U	12 U	170 J	59 J	100 J	420	860 J	48 J	13 U
4-Nitroaniline	NC	45 U	38 U	33 U	36 U	36 U	44 U	30 U	360 U	33 U	35 U
4,6-Dinitro-2-methylphenol	NC	34 U	28 U	24 UJ	27 UJ	26 UJ	33 U	22 U	260 UJ	24 UJ	26 UJ
N-Nitrosodiphenylamine	NC	15 U	12 U	11 U	12 U	12 U	14 U	9.7 U	120 U	11 U	11 U
4-Bromophenyl-phenylether	NC	15 U	13 U	11 U	12 U	12 U	15 U	10 U	120 U	11 U	12 U
Hexachlorobenzene	410	11 U	9.2 U	7.9 U	8.7 U	8.5 U	11 U	7.2 U	85 U	7.9 U	8.5 U
Atrazine	NC	18 U	15 U	13 U	14 U	14 U	17 U	12 U	140 U	13 U	14 U
Pentachlorophenol	1000 or MDL	18 U	15 U	13 U	14 U	14 U	18 U	12 U	140 U	13 U	14 U
Phenanthrene	50,000	450 J	11 U	91 J	680	320 J	320 J	2900	1600 J	230 J	100 J
Anthracene	50,000	140 J	12 U	10 U	240 J	76 J	97 J	780	710 J	49 J	11 U
Carbazole	NC	78 J	11 U	9.2 U	110 J	10 U	12 U	310 J	100 U	9.3 U	10 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-33	SB-33	SB-34	SB-34	SB-34	SB-34	SB-36	SB-36	SB-36	SB-73
Sample Interval (Feet bgs)		35 to 37	39 to 41	3 to 4	4 to 5	20.5 to 21	28.5 to 29	3 to 4	5 to 7	17 to 19	17 to 19
Sampling Date		5/16/04	5/16/04	5/10/04	5/10/04	08/10/04	08/10/04	4/25/04	5/8/04	5/8/04	5/8/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										Duplicate
Di-n-butylphthalate	8,100	3100	2200	5.6 U	6.2 U	6 U	7.5 U	5.1 U	60 U	5.6 U	6 U
Fluoranthene	50,000	320 J	6.8 U	140 J	660	210 J	150 J	3000 DJ	5100	340 J	140 J
Pyrene	50,000	280 J	8.7 U	170 J	630	300 J	170 J	3000 D	4200 J	340 J	120 J
Butylbenzylphthalate	50,000	76 J	16 U	14 U	16 U	15 U	19 U	13 U	***170000*** D	14 U	15 U
3,3-Dichlorobenzidine	NA	93 U	79 U	67 U	75 U	73 U	90 U	61 U	730 U	68 U	73 U
Benzo(a)anthracene	224 or MDL	120 J	7.4 U	160 J	***480***	***270*** J	90 J	***1900***	***1700*** J	170 J	49 J
Chrysene	400	110 J	16 U	150 J	***430*** J	270 J	84 J	***1800***	***1700*** J	180 J	63 J
bis(2-Ethylhexyl)phthalate	50,000	300 J	160 J	9.6 U	11 U	580	230 J	45 J	100 U	9.7 U	10 U
Di-n-octyl phthalate	50,000	14 U	12 U	10 U	11 U	11 U	13 U	9.1 U	110 U	10 U	11 U
Benzo(b)fluoranthene	1,100	80 J	26 U	150 J	390 J	330 J	30 U	***2700***	***1700*** J	160 J	48 J
Benzo(k)fluoranthene	1,100	68 J	17 U	80 J	220 J	130 J	19 U	570	1000 J	120 J	15 U
Benzo(a)pyrene	61 or MDL	***97*** J	8.4 U	***190*** J	***420*** J	***280*** J	9.7 U	***2000***	***1100*** J	***170*** J	51 J
Indeno(1,2,3-cd)pyrene	3,200	14 U	12 U	92 J	190 J	50 J	14 U	630 J	110 UJ	95 J	11 UJ
Dibenz(a,h)anthracene	14 or MDL	17 U	14 U	12 U	***73*** J	13 UJ	17 U	***280*** J	130 UJ	12 U	13 U
Benzo(g,h,i)perylene	50,000	25 U	21 U	100 J	200 J	78 J	25 U	670	200 UJ	120 J	20 UJ
Total Confident Conc. SVOC	500,000	6,371	2,560	1,323	5,469	3,961	1,871	22,158	203,590	2,142	571
Carcinogenic SVOCs in BaP Equivalents		118.8	ND	232.5	605.5	349	9.8	2,826.7	1,467	215.5	61.3

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-36	SB-36	SB-38	SB-38	SB-38	SB-38	SB-39	SB-39	SB-40B	SB-40B
Sample Interval (Feet bgs)		25 to 27	33 to 35	3 to 4	4 to 5	13 to 15	21 to 23	7.5 to 8	22 to 23	33 to 35	35 to 37
Sampling Date		5/8/04	5/8/04	4/25/04	4/25/04	5/16/04	5/16/04	07/21/04	07/21/04	07/27/04	07/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Benzaldehyde	NC	170 U	51 U	85 U	88 U	240 U	51 U	40 U	46 U	40 U	100 U
Phenol	30 or MDL	72 U	22 U	36 U	37 U	100 U	22 U	17 U	19 U	17 U	43 U
bis(2-Chloroethyl)ether	NC	85 U	26 U	43 U	44 U	120 U	26 U	20 U	23 U	20 U	51 U
2-Chlorophenol	800	74 U	23 U	38 U	39 U	100 U	22 U	17 U	20 U	17 U	45 U
2-Methylphenol	100 or MDL	110 U	33 U	55 U	56 U	150 U	33 U	25 U	29 U	26 U	66 U
2,2-oxybis(1-Chloropropane)	NC	93 U	28 U	47 U	48 U	130 U	28 U	22 U	25 U	22 U	56 U
Acetophenone	NC	90 U	27 U	45 U	47 U	130 U	27 U	21 U	24 U	21 U	54 U
3+4-Methylphenols	900	79 U	24 U	40 U	41 U	110 U	24 U	19 U	21 U	19 U	48 U
N-Nitroso-di-n-propylamine	NC	76 U	23 U	38 U	39 U	110 U	23 U	18 U	21 U	18 U	46 U
Hexachloroethane	NC	82 U	25 U	41 U	43 U	120 U	25 U	19 U	22 U	19 U	50 U
Nitrobenzene	200 or MDL	87 U	27 U	44 U	45 U	120 U	26 U	20 U	24 U	21 U	53 U
Isophorone	4,400	64 U	19 U	32 U	33 U	90 U	19 U	15 U	17 U	15 U	39 U
2-Nitrophenol	330 or MDL	69 U	21 U	35 U	36 U	97 U	21 U	16 U	19 U	16 U	42 U
2,4-Dimethylphenol	NC	320 J	28 U	47 U	48 U	130 U	28 U	22 U	25 U	22 U	56 U
bis(2-Chloroethoxy)methane	NC	79 U	24 U	40 U	41 U	110 U	24 U	18 U	21 U	18 U	47 U
2,4-Dichlorophenol	400	60 U	18 U	30 U	31 U	85 U	18 U	14 U	16 U	14 U	36 U
Naphthalene	13,000	***72000*** D	520 J	1700	950 J	53 U	86 J	58 J	79 J	8.8 U	***15000*** D
4-Chloroaniline	220 or MDL	640 U	190 U	320 U	330 U	900 U	190 U	150 U	170 U	150 U	380 U
Hexachlorobutadiene	NC	60 U	18 U	30 U	31 U	85 U	18 U	14 U	16 U	14 U	36 U
Caprolatam	NC	63 U	19 U	32 U	33 U	89 U	19 U	15 U	17 U	15 U	38 U
4-Chloro-3-methylphenol	240 or MDL	51 U	16 U	26 U	26 U	72 U	15 U	12 U	14 U	12 U	31 U
2-Methylnaphthalene	36,400	16000 D	110 J	280 J	280 J	42 U	9 U	7 U	8 U	7 U	6000 D
Hexachlorocyclopentadiene	NC	43 UJ	13 UJ	22 UJ	22 UJ	61 UJ	13 UJ	10 UJ	12 UJ	10 UJ	26 UJ
2,4,6-Trichlorophenol	NC	62 U	19 U	31 U	32 U	88 U	19 U	15 U	17 U	15 U	38 U
2,4,5-Trichlorophenol	100	110 U	35 U	57 U	59 U	160 U	34 U	27 U	31 U	27 U	69 U
1,1-Biphenyl	NC	3000	16 U	150 J	150 J	72 U	15 U	12 U	14 U	12 U	980 J
2-Chloronaphthalene	NC	36 U	11 U	18 U	19 U	50 U	11 U	8.4 U	9.7 U	8.4 U	22 U
2-Nitroaniline	430 or MDL	62 U	19 U	31 U	32 U	88 U	19 U	15 U	17 U	15 U	38 U
Dimethylphthalate	2,000	41 U	13 U	21 U	21 U	58 U	12 U	9.6 U	11 U	9.7 U	25 U
Acenaphthylene	41,000	3200	16 U	480 J	190 J	72 U	16 U	12 U	14 U	12 U	1500
2,6-Dinitrotoluene	1,000	73 U	22 U	37 U	38 U	100 U	22 U	17 U	20 U	17 U	44 U
3-Nitroaniline	500 or MDL	280 U	85 U	140 U	140 U	390 U	84 U	65 U	75 U	65 U	170 U
Acenaphthene	50,000	15000 D	120 J	330 J	260 J	370 J	63 J	8.9 U	150 J	8.9 U	3600
2,4-Dinitrophenol	200 or MDL	76 UJ	23 UJ	38 U	39 U	110 U	23 U	18 UJ	21 U	18 U	46 U
4-Nitrophenol	100 or MDL	170 U	51 U	85 U	87 U	240 U	51 U	39 U	51 J	39 U	100 U
Dibenzofuran	6,200	***14000***	110 J	460 J	520 J	320 J	17 U	13 U	56 J	13 U	2500
2,4-Dinitrotoluene	1,000	34 U	10 U	200 J	18 U	48 U	10 U	8.1 U	9.3 U	8.1 U	21 U
Diethylphthalate	7,100	54 U	16 U	27 U	28 U	76 U	240 J	13 U	15 U	13 U	33 U
4-Chlorophenyl-phenylether	NC	43 U	13 U	22 U	22 U	60 U	13 U	10 U	12 U	10 U	26 U
Fluorene	50,000	18000 D	140 J	790 J	1100 J	1100 J	15 U	43 J	110 J	11 U	5900
4-Nitroaniline	NC	130 U	41 U	68 U	70 U	190 U	41 U	32 U	36 U	32 U	81 U
4,6-Dinitro-2-methylphenol	NC	100 UJ	30 UJ	50 U	52 U	140 U	30 U	23 UJ	27 U	23 U	60 U
N-Nitrosodiphenylamine	NC	44 U	13 U	22 U	23 U	61 U	13 U	10 U	12 U	10 U	26 U
4-Bromophenyl-phenylether	NC	45 U	14 U	23 U	23 U	64 U	14 U	11 U	12 U	11 U	27 U
Hexachlorobenzene	410	32 U	9.8 U	16 U	17 U	45 U	9.7 U	7.6 U	8.7 U	7.6 U	19 U
Atrazine	NC	53 U	16 U	27 U	27 U	74 U	16 U	12 U	14 U	12 U	32 U
Pentachlorophenol	1000 or MDL	54 U	16 U	27 U	28 U	75 U	16 U	13 U	14 U	13 U	32 U
Phenanthrene	50,000	***77000*** D	580	4100	3600 J	9700	420 J	260 J	1100	9 U	17000 DJ
Anthracene	50,000	25000 D	190 J	920	910 J	5300	92 J	110 J	380 J	9.7 U	5000
Carbazole	NC	9800	67 J	380 J	320 J	330 J	11 U	8.9 U	160 J	8.9 U	840 J

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-36	SB-36	SB-38	SB-38	SB-38	SB-38	SB-39	SB-39	SB-40B	SB-40B
Sample Interval (Feet bgs)		25 to 27	33 to 35	3 to 4	4 to 5	13 to 15	21 to 23	7.5 to 8	22 to 23	33 to 35	35 to 37
Sampling Date		5/8/04	5/8/04	4/25/04	4/25/04	5/16/04	5/16/04	07/21/04	07/21/04	07/27/04	07/27/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										
Di-n-butylphthalate	8,100	23 U	7 U	12 U	12 U	32 U	***15000*** D	5.4 U	6.2 U	5.4 U	14 U
Fluoranthene	50,000	***51000*** D	400 J	7000 DJ	3400 J	11000	280 J	310 J	1800	5.6 U	7300 D
Pyrene	50,000	37000 D	310 J	6700 D	3100	7700	330 J	360 J	1700	7.2 U	8100 D
Butylbenzylphthalate	50,000	58 U	18 U	29 U	30 U	81 U	57 J	14 U	16 U	14 U	35 U
3,3-Dichlorobenzidine	NA	280 U	84 U	140 U	140 U	390 U	83 U	65 U	75 U	65 U	170 U
Benzo(a)anthracene	224 or MDL	***19000*** D	170 J	***5600***	***2600*** J	***5800***	***290*** J	***270*** J	***1700***	6.1 U	***4800***
Chrysene	400	***16000*** D	140 J	***5100***	***2000***	***4500***	290 J	210 J	***1400***	13 U	***3400***
bis(2-Ethylhexyl)phthalate	50,000	200 J	12 U	20 U	110 J	56 U	260 J	130 J	1700	270 J	180 J
Di-n-octyl phthalate	50,000	41 U	13 U	21 U	21 U	58 U	12 U	9.6 U	11 U	9.7 U	25 U
Benzo(b)fluoranthene	1,100	***15000*** DJ	99 J	***9000*** D	***2600***	***3100***	270 J	290 J	***2200***	21 U	***2700*** J
Benzo(k)fluoranthene	1,100	***9000***	79 J	***2600***	***1400***	***2000*** J	340 J	130 J	1100	14 U	920 J
Benzo(a)pyrene	61 or MDL	***14000*** D	***110*** J	***6900*** D	***2400***	***3500***	***480*** J	***280*** J	***2400***	7 U	***2700***
Indeno(1,2,3-cd)pyrene	3,200	2100 J	13 UJ	2800 J	670 J	1200 J	270 J	9.8 UJ	1100 J	9.8 U	730 J
Dibenz(a,h)anthracene	14 or MDL	***1200*** J	15 U	***1300***	***150*** J	***550*** J	***94*** J	12 U	***85*** J	12 U	***180*** J
Benzo(g,h,i)perylene	50,000	2700 J	23 UJ	2600	750 J	1000 J	300 J	180 J	1000	18 U	850 J
Total Confident Conc. SVOC	500,000	420,520	3,145	59,390	27,460	57,470	19,162	2,631	18,271	270	90,180
Carcinogenic SVOCs in BaP Equivalents		19,060	139.1	10,017	3,171	5,125	663.3	339.4	3,010	ND	3,746.2

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-40B	MW-40A	B-90	B-91	B-91	B-91	B-92	B-92	B-92	
Sample Interval (Feet bgs)		41 to 43	4 to 5	4 to 5	4 to 5	8 to 11	11 to 15	0 to 1	3	9 to 13	
Sampling Date		07/27/04	07/06/04	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										Number of Samples
Benzaldehyde	NC	48 U	41 U	71 U	140 U	79 U	79 U	82 U	90 U	97 U	39
Phenol	30 or MDL	20 U	17 U	52 U	100 U	58 U	58 U	61 U	66 U	72 U	39
bis(2-Chloroethyl)ether	NC	24 U	21 U	55 U	110 U	61 U	61 U	63 U	69 U	75 U	39
2-Chlorophenol	800	21 U	18 U	55 U	110 U	61 U	61 U	64 U	70 U	76 U	39
2-Methylphenol	100 or MDL	31 U	26 U	57 U	110 U	64 U	64 U	67 U	73 U	79 U	39
2,2-oxybis(1-Chloropropane)	NC	26 U	23 U	56 U	110 U	62 U	62 U	65 U	71 U	76 U	39
Acetophenone	NC	25 U	22 U	51 U	100 U	56 U	56 U	59 U	64 U	69 U	39
3+4-Methylphenols	900	22 U	19 U	55 U	110 U	61 U	61 U	63 U	69 U	75 U	39
N-Nitroso-di-n-propylamine	NC	21 U	18 U	57 U	110 U	64 U	64 U	66 U	73 U	78 U	39
Hexachloroethane	NC	23 U	20 U	59 U	120 U	65 U	65 U	68 U	74 U	80 U	39
Nitrobenzene	200 or MDL	25 U	21 U	75 U	150 U	84 U	84 U	88 U	96 U	100 U	39
Isophorone	4,400	18 U	16 U	52 U	100 U	58 U	58 U	60 U	66 U	71 U	39
2-Nitrophenol	330 or MDL	20 U	17 U	53 U	110 U	59 U	59 U	62 U	67 U	73 U	39
2,4-Dimethylphenol	NC	26 U	23 U	55 U	110 U	61 U	61 U	64 U	70 U	75 U	39
bis(2-Chloroethoxy)methane	NC	22 U	19 U	57 U	110 U	63 U	63 U	66 U	72 U	78 U	39
2,4-Dichlorophenol	400	17 U	15 U	64 U	130 U	71 U	71 U	74 U	81 U	88 U	39
Naphthalene	13,000	110 J	9.1 U	59 U	120 U	66 U	66 U	69 U	75 U	81 U	39
4-Chloroaniline	220 or MDL	180 U	150 U	41 U	82 U	46 U	46 U	48 U	52 U	56 U	39
Hexachlorobutadiene	NC	17 U	15 U	53 U	110 U	59 U	59 U	62 U	67 U	73 U	39
Caprolatam	NC	18 U	15 U	56 U	110 U	62 U	62 U	65 U	70 U	76 U	39
4-Chloro-3-methylphenol	240 or MDL	14 U	12 U	48 U	95 U	53 U	53 U	55 U	61 U	65 U	39
2-Methylnaphthalene	36,400	8.4 U	7.2 U	58 U	120 U	64 U	64 U	67 U	73 U	79 U	39
Hexachlorocyclopentadiene	NC	12 UJ	10 UJ	55 U	110 U	61 U	61 U	64 U	70 U	76 U	39
2,4,6-Trichlorophenol	NC	18 U	15 U	51 U	100 U	56 U	56 U	59 U	64 U	70 U	39
2,4,5-Trichlorophenol	100	32 U	28 U	53 U	110 U	59 U	59 U	61 U	67 U	72 U	39
1,1-Biphenyl	NC	14 U	12 U	57 U	110 U	63 U	63 U	66 U	72 U	78 U	39
2-Chloronaphthalene	NC	10 U	8.7 U	57 U	110 U	64 U	64 U	67 U	73 U	79 U	39
2-Nitroaniline	430 or MDL	18 U	15 U	44 U	88 U	49 U	49 U	51 U	56 U	60 U	39
Dimethylphthalate	2,000	12 U	10 U	56 U	110 U	62 U	62 U	65 U	70 U	76 U	39
Acenaphthylene	41,000	15 U	12 U	56 U	110 U	97 J	62 U	65 U	71 U	77 U	39
2,6-Dinitrotoluene	1,000	21 U	18 U	49 U	98 U	54 U	54 U	57 U	62 U	67 U	39
3-Nitroaniline	500 or MDL	79 U	67 U	45 U	90 U	50 U	50 U	52 U	57 U	62 U	39
Acenaphthene	50,000	11 U	89 J	62 U	120 U	240 J	68 U	71 U	78 U	84 U	39
2,4-Dinitrophenol	200 or MDL	21 U	18 U	300 U	590 U	330 U	330 U	340 U	370 U	410 U	39
4-Nitrophenol	100 or MDL	48 U	41 U	43 U	86 U	48 U	48 U	50 U	54 U	59 U	39
Dibenzofuran	6,200	16 U	71 J	57 U	110 U	120 J	63 U	66 U	72 U	78 U	39
2,4-Dinitrotoluene	1,000	9.7 U	8.3 U	51 U	100 U	56 U	56 U	59 U	64 U	70 U	39
Diethylphthalate	7,100	15 U	13 U	60 U	120 U	66 U	66 U	69 U	76 U	82 U	39
4-Chlorophenyl-phenylether	NC	12 U	10 U	55 U	110 U	61 U	61 U	63 U	69 U	75 U	39
Fluorene	50,000	14 U	99 J	58 U	120 U	260 J	65 U	68 U	74 U	80 U	39
4-Nitroaniline	NC	38 U	33 U	59 U	120 U	66 U	66 U	69 U	75 U	81 U	39
4,6-Dinitro-2-methylphenol	NC	28 U	24 U	67 U	130 U	75 U	74 U	78 U	85 U	92 U	39
N-Nitrosodiphenylamine	NC	12 U	11 U	57 U	110 U	63 U	63 U	66 U	72 U	78 U	39
4-Bromophenyl-phenylether	NC	13 U	11 U	52 U	100 U	57 U	57 U	60 U	65 U	71 U	39
Hexachlorobenzene	410	9.1 U	7.8 U	55 U	110 U	61 U	61 U	64 U	70 U	76 U	39
Atrazine	NC	15 U	13 U	53 U	110 U	59 U	59 U	61 U	67 U	73 U	39
Pentachlorophenol	1000 or MDL	15 U	13 U	80 U	160 U	89 U	89 U	93 U	100 U	110 U	39
Phenanthrene	50,000	82 J	1100	180 J	270 J	1800	250 J	64 U	70 U	100 J	39
Anthracene	50,000	12 U	220 J	52 U	100 U	680	110 J	61 U	66 U	71 U	39
Carbazole	NC	11 U	120 J	53 U	110 U	200 J	59 U	61 U	67 U	72 U	39

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location		SB-40B	MW-40A	B-90	B-91	B-91	B-91	B-92	B-92	B-92	
Sample Interval (Feet bgs)		41 to 43	4 to 5	4 to 5	4 to 5	8 to 11	11 to 15	0 to 1	3	9 to 13	
Sampling Date		07/27/04	07/06/04	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO										Number of Samples
Di-n-butylphthalate	8,100	6.5 U	5.6 U	53 U	110 U	59 U	58 U	61 U	67 U	72 U	39
Fluoranthene	50,000	6.8 U	900	51 U	890	2100	330 J	87 J	92 J	140 J	39
Pyrene	50,000	8.7 U	1000	61 U	970	2000	440	100 J	98 J	190 J	39
Butylbenzylphthalate	50,000	16 U	14 U	56 U	110 U	62 U	62 U	65 U	71 U	77 U	39
3,3-Dichlorobenzidine	NA	78 U	67 U	59 U	120 U	66 U	66 U	69 U	75 U	81 U	39
Benzo(a)anthracene	224 or MDL	7.4 U	***400*** J	210 J	***520*** J	***1100***	***320*** J	120 J	110 J	150 J	39
Chrysene	400	15 U	***450***	190 J	***470*** J	***980***	300 J	110 J	86 J	130 J	39
bis(2-Ethylhexyl)phthalate	50,000	93 J	9.6 U	66 U	130 U	1400	74 U	77 U	84 U	91 U	39
Di-n-octyl phthalate	50,000	12 U	10 U	59 U	120 U	65 U	65 U	68 U	75 U	81 U	39
Benzo(b)fluoranthene	1,100	26 U	300 J	310 J	910	***1200***	430	210 J	150 J	220 J	39
Benzo(k)fluoranthene	1,100	17 U	130 J	76 U	150 U	250 J	94 J	88 U	96 U	100 U	39
Benzo(a)pyrene	61 or MDL	8.4 U	***280*** J	***140*** J	***580*** J	***940***	***410***	***160*** J	***120*** J	***210*** J	39
Indeno(1,2,3-cd)pyrene	3,200	12 U	240 J	96 J	260 J	320 J	110 J	72 J	56 U	73 J	39
Dibenz(a,h)anthracene	14 or MDL	14 U	12 U	43 U	87 U	***130*** J	***68*** J	50 U	55 U	59 U	39
Benzo(g,h,i)perylene	50,000	21 U	150 J	130 J	310 J	450	180 J	91 J	72 U	110 J	39
Total Confident Conc. SVOC	500,000	285	5,549	1,256	5,180	14,267	3,042	950	656	1,323	
Carcinogenic SVOCs in BaP Equivalents		ND	379.8	203.5	755.2	1,344.3	567.9	201.3	146.9	255.6	

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location Sample Interval (Feet bgs) Sampling Date Units Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	0	0%	0	0%	< 37	< 450
Phenol	30 or MDL	0	0%	0	0%	< 16	< 190
bis(2-Chloroethyl)ether	NC	0	0%	0	0%	< 19	< 220
2-Chlorophenol	800	0	0%	0	0%	< 17	< 200
2-Methylphenol	100 or MDL	0	0%	0	0%	< 24	< 290
2,2-oxybis(1-Chloropropane)	NC	0	0%	0	0%	< 21	< 250
Acetophenone	NC	0	0%	0	0%	< 20	< 240
3+4-Methylphenols	900	0	0%	0	0%	< 18	< 210
N-Nitroso-di-n-propylamine	NC	0	0%	0	0%	< 17	< 200
Hexachloroethane	NC	0	0%	0	0%	< 18	< 220
Nitrobenzene	200 or MDL	0	0%	0	0%	< 19	< 230
Isophorone	4,400	0	0%	0	0%	< 14	< 170
2-Nitrophenol	330 or MDL	0	0%	0	0%	< 15	< 180
2,4-Dimethylphenol	NC	1	3%	0	0%	< 21	320
bis(2-Chloroethoxy)methane	NC	0	0%	0	0%	< 17	< 210
2,4-Dichlorophenol	400	0	0%	0	0%	< 13	< 160
Naphthalene	13,000	22	56%	2	5%	< 8.4	72,000
4-Chloroaniline	220 or MDL	0	0%	0	0%	< 41	< 1,700
Hexachlorobutadiene	NC	0	0%	0	0%	< 13	< 160
Caprolatam	NC	0	0%	0	0%	< 14	< 170
4-Chloro-3-methylphenol	240 or MDL	0	0%	0	0%	< 11	< 130
2-Methylnaphthalene	36,400	16	41%	0	0%	< 6.7	16,000
Hexachlorocyclopentadiene	NC	0	0%	0	0%	< 9.6	< 110
2,4,6-Trichlorophenol	NC	0	0%	0	0%	< 14	< 160
2,4,5-Trichlorophenol	100	0	0%	0	0%	< 25	< 300
1,1-Biphenyl	NC	8	21%	0	0%	< 11	3,000
2-Chloronaphthalene	NC	0	0%	0	0%	< 8	< 110
2-Nitroaniline	430 or MDL	0	0%	0	0%	< 14	< 160
Dimethylphthalate	2,000	0	0%	0	0%	< 9.1	< 110
Acenaphthylene	41,000	9	23%	0	0%	< 12	3,200
2,6-Dinitrotoluene	1,000	0	0%	0	0%	< 16	< 190
3-Nitroaniline	500 or MDL	0	0%	0	0%	< 45	< 730
Acenaphthene	50,000	21	54%	0	0%	< 8.7	15,000
2,4-Dinitrophenol	200 or MDL	0	0%	0	0%	< 17	< 590
4-Nitrophenol	100 or MDL	1	3%	0	0%	< 37	< 440
Dibenzofuran	6,200	15	38%	1	3%	< 13	14,000
2,4-Dinitrotoluene	1,000	1	3%	0	0%	< 7.6	200
Diethylphthalate	7,100	5	13%	0	0%	< 12	300
4-Chlorophenyl-phenylether	NC	0	0%	0	0%	< 9.5	< 110
Fluorene	50,000	22	56%	0	0%	< 11	18,000
4-Nitroaniline	NC	0	0%	0	0%	< 30	< 360
4,6-Dinitro-2-methylphenol	NC	0	0%	0	0%	< 22	< 260
N-Nitrosodiphenylamine	NC	0	0%	0	0%	< 9.7	< 120
4-Bromophenyl-phenylether	NC	0	0%	0	0%	< 10	< 120
Hexachlorobenzene	410	0	0%	0	0%	< 7.2	< 110
Atrazine	NC	0	0%	0	0%	< 12	< 140
Pentachlorophenol	1000 or MDL	0	0%	0	0%	< 12	< 160
Phenanthrene	50,000	34	87%	1	3%	< 9	77,000
Anthracene	50,000	25	64%	0	0%	< 9.4	25,000
Carbazole	NC	16	41%	0	0%	< 8.5	9,800

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-27

Sample Location Sample Interval (Feet bgs) Sampling Date Units Semivolatile Organic Compounds (ug/kg)	TAGM RSCO	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Di-n-butylphthalate	8,100	7	18%	2	5%	< 5.1	39,000
Fluoranthene	50,000	33	85%	1	3%	< 5.6	51,000
Pyrene	50,000	33	85%	0	0%	< 7.2	37,000
Butylbenzylphthalate	50,000	3	8%	1	3%	< 13	170,000
3,3-Dichlorobenzidine	NA	0	0%	0	0%	< 59	< 730
Benzo(a)anthracene	224 or MDL	33	85%	20	51%	< 6.1	19,000
Chrysene	400	33	85%	16	41%	< 13	16,000
bis(2-Ethylhexyl)phthalate	50,000	20	51%	0	0%	< 8.8	1,700
Di-n-octyl phthalate	50,000	0	0%	0	0%	< 9.1	< 120
Benzo(b)fluoranthene	1,100	32	82%	11	28%	< 21	15,000
Benzo(k)fluoranthene	1,100	25	64%	5	13%	< 13	9,000
Benzo(a)pyrene	61 or MDL	32	82%	30	77%	< 7	14,000
Indeno(1,2,3-cd)pyrene	3,200	25	64%	0	0%	< 9.4	2,800
Dibenz(a,h)anthracene	14 or MDL	13	33%	13	33%	< 11	1,300
Benzo(g,h,i)perylene	50,000	26	67%	0	0%	< 17	2,700
Total Confident Conc. SVOC	500,000						
Carcinogenic SVOCs in BaP Equivalents							

Summary of Metals and Cyanide in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-28

Sample Location		**TP-4**	**SB-31**	**SB-31**	**SB-31**	**SB-32**	**SB-32**	**SB-32**	**SB-33**	**SB-33**	**SB-33**
Sample Interval (Feet bgs)		5 to 6	7.1 to 7.7	21 to 23	25 to 27	4 to 5	11 to 13	21 to 23	4 to 5	11 to 13	13 to 15
Sampling Date		05/08/04	07/12/04	10/09/04	10/09/04	4/25/04	05/22/04	05/22/04	4/25/04	05/16/04	05/16/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	44.1 J	0.905 U	0.988 U	0.921 U	0.667 U	1.2 J	0.69 J	0.652 U	0.75 U	0.85 J
Arsenic	12	8.1	***12.5***	10.4	8.96	8.65	3.9	4.9	2.51	1.8	1.3
Beryllium	600	0.38 J	0.826	0.767 J	0.787 J	0.333 J	0.4 J	0.38 J	0.251 J	0.29 J	0.23 J
Cadmium	1	0.7	***1.69***	0.081 U	0.075 U	0.153 J	0.67 J	0.47 J	0.092 J	0.06 U	0.05 U
Chromium	40	16.6 J	32.9	21.9	23.1	11.4 J	15.1 J	13.5	13.6 J	12.1	10
Copper	50	***88.7*** J	***184***	19.3	19.6	37.6	23.6	29.5	41.3	46.9	***80.4***
Lead	500	***2000*** J	***1660***	28.5	22.6	382	161 J	174	127	112 J	295 J
Mercury	0.1	***1.5***	***2.3***	***0.216*** R	***0.166*** R	***0.42*** J	***0.3*** J	***0.27***	***1.1*** J	***0.13*** J	0.06 J
Nickel	25	18.6	24.9	21.4	22.6	11.3 J	13.7	15.1	13.2 J	14.5	11.3
Selenium	3.9	0.37 U	3.16	0.549 U	0.512 U	0.445 J	0.43 U	0.38 U	0.363 J	0.41 U	0.37 U
Silver	B	0.17 J	3.73	0.233 J	0.172 U	0.518 J	0.14 U	0.13 U	0.251 J	0.14 U	0.12 U
Thallium	B	0.39 UJ	0.53 U	1.44 J	0.54	0.391 U	0.45 U	0.4 U	0.382 U	0.44 U	0.39 U
Zinc	50	***274*** J	***305***	***57.7***	***68***	***67.5*** J	***53.1***	44.7	***60.8*** J	***91.8***	***68.3***

Sample Location		**TP-4**	**SB-31**	**SB-31**	**SB-31**	**SB-32**	**SB-32**	**SB-32**	**SB-33**	**SB-33**	**SB-33**
Sample Interval (Feet bgs)		5 to 6	7.1 to 7.7	21 to 23	25 to 27	4 to 5	11 to 13	21 to 23	4 to 5	11 to 13	13 to 15
Sampling Date		5/8/04	07/12/04	10/09/04	10/09/04	4/25/04	05/22/04	05/22/04	4/25/04	5/16/04	5/16/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.588 U	0.81 U	0.89 U	0.82 U	0.592 U	0.688 U	0.601 U	0.579 U	0.662 U	0.585 U
Amenable Cyanide	NC	0.59 U	0.81 U	0.89 U	0.82 U	0.75 U	0.81 U	0.592 U	0.72 U	0.57 U	0.579 U

Summary of Metals and Cyanide in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-28

Sample Location		SB-33	SB-33	SB-34	SB-34	SB-34	SB-34	SB-36	SB-36	SB-36	SB-73
Sample Interval (Feet bgs)		35 to 37	39 to 41	3 to 4	4 to 5	20.5 to 21	28.5 to 29	3 to 4	5 to 7	17 to 19	17 to 19
Sampling Date		05/16/04	05/16/04	05/10/04	05/10/04	08/10/04	08/10/04	4/25/04	05/08/04	05/08/04	05/08/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	1 U	0.85 U	0.73 UJ	0.8 J	0.787 U	0.963 U	2.81 J	1.7 J	0.72 UJ	0.76 UJ
Arsenic	12	7.8	6.6	6.3	7	1.97	7.51	10.8	5.6	2.4	3.9
Beryllium	600	0.57 J	0.57 J	0.62 J	0.51 J	0.303 J	0.724 J	0.36 J	0.46 J	0.36 J	0.46 J
Cadmium	1	0.08 U	0.07 U	0.38 J	0.42 J	0.064 U	0.749 J	0.781	***1.2***	0.28 J	0.29 J
Chromium	40	21.2	20.9	19.5 J	16.4 J	10.1	23.4	15.8 J	24.3 J	11.6 J	14.1 J
Copper	50	14.5	11.7	31.7 J	42.4 J	16.1	22.8	***102***	***340*** J	22.4 J	25.2 J
Lead	500	23.4 J	10.4 J	167 J	237 J	46.2	30.6	446	147 J	127 J	186 J
Mercury	0.1	0.02 J	0.02 J	***0.36***	***0.51***	0.06 J	0.06 J	***1.1*** J	***0.3***	***1.1*** D	***0.64***
Nickel	25	22.5	20.5	21.1	18.3 U	11.5	23.8	18.6 J	***27.8***	16	18.2
Selenium	3.9	0.56 U	0.47 U	0.4 U	0.44 U	0.855 J	2.13	1.13 J	0.43 U	0.4 U	0.43 U
Silver	B	0.19 U	0.16 U	0.14 UJ	0.15 UJ	0.147 U	0.18 U	1.11 J	0.14 UJ	0.13 UJ	1.5 J
Thallium	B	0.59 U	0.72 J	0.43 UJ	0.47 UJ	0.462 U	0.564 U	0.385 U	0.45 UJ	0.42 UJ	0.45 UJ
Zinc	50	***60.3***	***60.1***	***67*** J	***109*** J	33.8	***71.2***	***311*** J	***220*** J	***74.3*** J	***96.1*** J

Sample Location		SB-33	SB-33	SB-34	SB-34	SB-34	SB-34	SB-36	SB-36	SB-36	SB-73
Sample Interval (Feet bgs)		35 to 37	39 to 41	3 to 4	4 to 5	20.5 to 21	28.5 to 29	3 to 4	5 to 7	17 to 19	17 to 19
Sampling Date		5/16/04	5/16/04	5/10/04	5/10/04	8/10/04	8/10/04	4/25/04	5/8/04	5/8/04	5/8/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	0.899 U	0.752 U	0.645 U	0.707 U	0.7 U	0.86 U	0.583 U	0.692 U	0.639 U	0.693 U
Amenable Cyanide	NC	0.66 U	0.59 U	0.65 U	0.71 U	0.9 U	0.75 U	0.7 U	0.86 U	0.583 U	0.69 U

Summary of Metals and Cyanide in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-28

Sample Location		SB-36	SB-36	SB-38	SB-38	SB-38	SB-38	SB-39	SB-39	SB-40B	SB-40B
Sample Interval (Feet bgs)		25 to 27	33 to 35	3 to 4	4 to 5	13 to 15	21 to 23	7.5 to 8	22 to 23	33 to 35	35 to 37
Sampling Date		05/08/04	05/08/04	4/25/04	4/25/04	05/16/04	05/16/04	07/21/04	07/21/04	07/27/04	07/27/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO										
Antimony	B	3.5 J	0.9 UJ	0.749 U	0.758 U	0.82 U	1.7 J	0.692 U	0.791 U	0.694 U	0.895 U
Arsenic	12	6.2	7.8	6.81	3.88	6	9.1	***19.6***	***24.2***	5.71	11.9
Beryllium	600	0.57 J	0.59 J	0.426 J	0.257 J	0.52 J	0.78	0.379 J	0.499 J	0.575 J	1.04
Cadmium	1	0.48 J	0.49 J	0.414 J	0.192 J	0.07 U	0.22 J	***1.9***	***1.75***	0.908	***2.17***
Chromium	40	25.3 J	21 J	15.6 J	12 J	17.4	25.7	14	13.1	15.1	38
Copper	50	36.7 J	12.6 J	***65.3***	43.6	28.3	42.8	38.7	43.9	28.6	38.9
Lead	500	473 J	11 J	***1080***	282	147 J	133 J	150	***584***	154	139
Mercury	0.1	***0.7*** D	0.03	***0.54*** J	***0.4*** J	***0.62*** J	***0.33*** J	***1.4***	***0.96***	***0.38***	***0.16***
Nickel	25	***29***	20.5	16.9 J	16.4 J	18.4	***29.5***	12.3	17.8	19.6	***26.4***
Selenium	3.9	0.41 U	0.5 U	0.521 J	0.421 UJ	0.46 U	0.49 U	1.74	2	1.58	2.38
Silver	B	0.14 UJ	0.17 UJ	0.81 J	0.413 J	0.15 U	0.16 U	1.95	0.811 J	0.913 J	1.44 J
Thallium	B	0.43 UJ	0.53 UJ	0.439 U	0.444 U	0.48 U	0.51 U	0.406 U	0.463 U	0.407 U	0.525 U
Zinc	50	***107*** J	***53.2*** J	***188*** J	***132*** J	***66.6***	***95.4***	***76.8***	***96.3***	***52.7***	***84.1***

Sample Location		SB-36	SB-36	SB-38	SB-38	SB-38	SB-38	SB-39	SB-39	SB-40B	SB-40B
Sample Interval (Feet bgs)		25 to 27	33 to 35	3 to 4	4 to 5	13 to 15	21 to 23	7.5 to 8	22 to 23	33 to 35	35 to 37
Sampling Date		5/8/04	5/8/04	4/25/04	4/25/04	5/16/04	5/16/04	07/21/04	07/21/04	07/27/04	07/27/04
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor		1.0	1	1.0	1.0	1.0	1.0	1	1.0	1.0	1.0
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO										
Cyanide	NC	3.26	0.796 U	0.665 U	0.673 U	2.09	2.4	1.35	0.7 U	0.62 U	0.8 U
Amenable Cyanide	NC	0.64 U	0.69 U	0.665 U	0.673 U	0.73 U	0.79 U	0.62 U	0.7 U	0.62 U	0.79 U

Summary of Metals and Cyanide in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-28

Sample Location		SB-40B	MW-40A	B-90	B-91	B-91	B-91	B-92	B-92	B-92
Sample Interval (Feet bgs)		41 to 43	4 to 5	4 to 5	4 to 5	8 to 11	11 to 15	0 to 1	3	9 to 13
Sampling Date		07/27/04	07/06/04	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO									
Antimony	B	0.84 U	1.47 J	0.35 U	0.35 U	0.48 J	3.5 J	0.4 U	0.44 U	0.47 U
Arsenic	12	9.49	12	2.8	1.9	2.1	4.6	5.1	2.2	7.2
Beryllium	600	0.88	0.406 J	0.2 J	0.22 J	0.23 J	0.42 J	0.4 J	0.49 J	0.53 J
Cadmium	1	***1.97***	0.408 J	0.03 U	0.03 U	0.04 U	0.04 U	0.04 U	0.04 U	0.05 U
Chromium	40	23.1	11.8	16.5	15.3	12.5	16.8	19.2	20	22
Copper	50	14.5	20.6	16.1	16.2	17.1	26.9	***54.5***	***98.7***	33.2
Lead	500	15.4	137	27.2	25.6	114	361	349	219	162
Mercury	0.1	0.02	***0.21*** J	***0.103***	0.046	***0.209***	***0.273***	***1.9***	***1.3***	***0.608***
Nickel	25	23.1	16.3	14.4	***34***	19.1	16.3	15.7	19.4	21.5
Selenium	3.9	1.58	1.18 J	0.36 U	0.36 U	0.4 U	0.39 U	0.41 U	0.45 U	0.49 U
Silver	B	1.32 J	0.379 J	0.36 J	0.37 J	0.33 J	0.89 J	0.91 J	1.4	1.1 J
Thallium	B	0.493 U	0.413 J	0.55 U	0.56 U	0.63 U	0.61 U	0.64 U	0.7 U	0.76 U
Zinc	50	***78.5***	***81.4***	***124***	47.8	***58.8***	***138***	***133***	***172***	***80.9***

Sample Location		SB-40B	MW-40A	B-90	B-91	B-91	B-91	B-92	B-92	B-92
Sample Interval (Feet bgs)		41 to 43	4 to 5	4 to 5	4 to 5	8 to 11	11 to 15	0 to 1	3	9 to 13
Sampling Date		07/27/04	07/06/04	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05	11/04/05
Matrix		SOIL	SOIL							
Dilution Factor		1.0	1.0							
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO									
Cyanide	NC	0.74 U	0.637 U	0.526 U	1.59	0.593 U	0.59 U	0.614 U	0.678 U	0.736 U
Amenable Cyanide	NC	0.75 U	0.64 U	0.53 U	0.53 U	0.59 U	0.59 U	0.61 U	0.68 U	0.74 U

Summary of Metals and Cyanide in Subsurface Soil - Area 5
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-28

Sample Location / Sample Interval (Feet bgs) / Sampling Date / Units PP Metals	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	39	12	31%	0	0%	< 0.35	44.1
Arsenic	12	39	39	100%	3	8%	1.3	24.2
Beryllium	600	39	39	100%	0	0%	0.2	1.04
Cadmium	1	39	24	62%	6	15%	< 0.03	2.17
Chromium	40	39	39	100%	0	0%	10	38
Copper	50	39	39	100%	8	21%	11.7	340
Lead	500	39	39	100%	4	10%	10.4	2,000
Mercury	0.1	39	39	100%	31	79%	0.02	2.3
Nickel	25	39	38	97%	5	13%	< 11.3	34
Selenium	3.9	39	13	33%	0	0%	< 0.36	3.16
Silver	B	39	22	56%	0	0%	< 0.12	3.73
Thallium	B	39	4	10%	0	0%	< 0.382	1.44
Zinc	50	39	39	100%	36	92%	33.8	311

Sample Location / Sample Interval (Feet bgs) / Sampling Date / Matrix / Dilution Factor / Units	TAGM RSCO	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	39	5	13%	0	0%	< 0.526	3.26
Amenable Cyanide	NC	39	0	0%	0	0%	< 0.530	< 0.90

Summary of Field Work and Observations for Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-29

Boring / Well ID	Date Completed	Boring Depth (ft bg)	Well Screen Interval	Depth to GW (ft bg)	Depth to top of Clay (ft bg)	Field Observations
SB-43	23-Jul-04	24	NA	7	NA	Wood refusal at 24' bgs, to be moved to Route 9A.
SB-43	2-Aug-04	9	NA	7	NA	Wood refusal at 9' bgs, to be moved to Route 9A. Max. 7'-9': PID = 48 ppm max.
SB-44B	2-Aug-04	9	NA	5.8	NA	Refusal at 9' bgs, to be moved to Route 9A. 8'-9': PID = 1,538 ppm max. 6'-9': MGP-related odor.
SB-45	22-Jul-04	37	NA	7.5	31- 37	N/O, N/S, no sheen
SB-46	23-Jul-04	6	NA	5.8	NA	Refusal at 6' bgs, to be moved to Route 9A. N/O, N/S

Note: Elevations are reported in feet below ground surface (ft bgs).

Laboratory and Data Validation Qualifiers
Former Broadway/Dyckman Street Station
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-30

Sample Location		B-43	SB-43	SB-43	SB-43	SB-44	SB-44	SB-45	SB-45	SB-45
Sample Interval (Feet bgs)		7 to 7.5	6 to 8	8 to 10	23 to 23.5	6.0 to 8.0	8 to 10	7 to 8	7 to 7.5	31.5 to 32
Sampling Date		07/23/04	08/02/04	08/02/04	07/23/04	08/02/04	08/02/04	07/08/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Volatile Organic Compounds (ug/Kg)										
Dichlorodifluoromethane	NC	1.4 U	1.4 U	1.5 U	1.4 U	1.8 U	46 U	1.5 U	1.4 U	10 U
Chloromethane	NC	0.38 U	0.38 U	0.41 U	0.38 U	0.48 U	95 U	0.4 U	0.38 U	2.7 U
Vinyl Chloride	200	0.27 U	0.27 U	0.29 U	0.27 U	0.34 U	37 U	0.28 U	0.27 U	1.9 U
Bromomethane	NC	0.81 U	0.8 U	0.88 U	0.81 U	1 U	110 U	0.85 U	0.8 U	5.8 U
Chloroethane	1,900	0.6 U	0.6 U	0.66 U	0.6 U	0.76 U	120 U	0.63 U	0.6 U	4.3 U
Trichlorofluoromethane	NC	2.8 U	2.8 U	3.1 U	2.8 U	3.6 U	80 U	3 U	2.8 U	20 U
1,1,2-Trichlorotrifluoroethane	6,000	0.53 U	0.52 U	0.57 U	0.53 U	0.67 U	96 U	0.55 U	0.52 U	3.8 U
1,1-Dichloroethene	400	0.25 U	0.24 U	0.27 U	0.25 U	0.31 U	45 U	0.26 U	0.24 U	1.8 U
Acetone	200	33	8.5 U	9.3 U	33	11 U	***3700*** J	9 U	8.5 U	***210***
Carbon Disulfide	2,700	14 J	0.11 U	0.13 U	14 J	0.15 U	54 U	0.12 U	0.11 U	0.83 U
Methyl tert-butyl Ether	120	0.26 U	0.26 U	0.29 U	0.26 U	0.33 U	50 U	0.28 U	0.26 U	1.9 U
Methyl Acetate	NC	1.5 U	1.4 U	1.6 U	1.5 U	1.8 U	120 U	1.5 U	1.4 U	10 U
Methylene Chloride	100	0.78 U	0.77 U	0.85 U	0.78 U	0.99 U	86 U	8.3 J	7.4 J	19 J
trans-1,2-Dichloroethene	300	0.43 U	0.42 U	0.46 U	0.43 U	0.54 U	71 U	0.45 U	0.42 U	3 U
1,1-Dichloroethane	200	0.41 U	0.4 U	0.44 U	0.41 U	0.51 U	30 U	0.43 U	0.4 U	2.9 U
Cyclohexane	NC	0.35 U	0.35 U	0.38 U	0.35 U	0.44 U	51 U	0.37 U	0.35 U	18 J
2-Butanone	300	2.6 U	2.6 U	2.8 U	2.6 U	3.3 U	390 U	2.7 U	2.6 U	53 J
Carbon Tetrachloride	600	0.34 U	0.34 U	0.37 U	0.34 U	0.43 U	65 U	0.36 U	0.34 U	2.4 U
cis-1,2-Dichloroethene	NC	0.4 U	0.4 U	0.44 U	0.4 U	0.51 U	110 U	0.42 U	0.4 U	2.9 U
Chloroform	300	0.27 U	0.27 U	0.3 U	0.27 U	0.34 U	80 U	0.29 U	0.27 U	1.9 U
1,1,1-Trichloroethane	800	0.31 U	0.31 U	0.34 U	0.31 U	0.39 U	57 U	0.33 U	0.31 U	2.2 U
Methylcyclohexane	NC	0.41 U	0.4 U	14	0.41 U	0.51 U	2200 J	0.43 U	0.4 U	73
Benzene	60	2.7 J	0.23 U	0.25 U	2.7 J	0.29 U	33 U	0.24 U	0.23 U	***850*** D
1,2-Dichloroethane	200	3.5 U	3.5 U	3.8 U	3.5 U	4.5 U	44 U	3.7 U	3.5 U	25 U
Trichloroethene	700	0.37 U	0.36 U	0.4 U	0.37 U	0.46 U	93 U	0.39 U	5.8	2.6 U
1,2-Dichloropropane	NC	0.39 U	0.38 U	0.42 U	0.39 U	0.49 U	44 U	0.4 U	0.38 U	2.7 U
Bromodichloromethane	NC	0.38 U	0.38 U	0.42 U	0.38 U	0.48 U	48 U	0.4 U	0.38 U	2.7 U
4-Methyl-2-Pentanone	1,000	2.8 U	2.7 U	3 U	2.8 U	3.5 U	180 U	2.9 U	2.7 U	20 U
Toluene	1,500	0.3 U	0.29 U	0.32 U	0.3 U	0.38 U	280 J	0.31 U	0.29 U	22 J
t-1,3-Dichloropropene	NC	0.29 U	0.29 U	0.32 U	0.29 U	0.37 U	59 U	0.31 U	0.29 U	2.1 U
cis-1,3-Dichloropropene	NC	0.22 U	0.22 U	0.24 U	0.22 U	0.28 U	21 U	0.23 U	0.22 U	1.6 U
1,1,2-Trichloroethane	NC	0.58 U	0.57 U	0.63 U	0.58 U	0.73 U	72 U	0.61 U	0.57 U	4.1 U
2-Hexanone	NC	3.7 U	3.6 U	4 U	3.7 U	4.6 U	92 U	3.9 U	3.6 U	26 U
Dibromochloromethane	NA	0.33 U	0.33 U	0.36 U	0.33 U	0.42 U	52 U	0.35 U	0.33 U	2.4 U
1,2-Dibromoethane	NC	0.48 U	0.47 U	0.52 U	0.48 U	0.6 U	88 U	0.5 U	0.47 U	3.4 U
Tetrachloroethene	1,400	6.8	3.9 J	5.8 J	6.8	0.92 U	46 U	0.77 U	8.8	11 J
Chlorobenzene	1,700	0.4 U	0.4 U	0.44 U	0.4 U	0.51 U	51 U	0.42 U	0.4 U	2.9 U
Ethyl Benzene	5,500	0.29 U	0.28 U	0.31 U	0.29 U	0.36 U	1900	0.3 U	0.28 U	1400 D
m/p-Xylenes	1,200	2.3 J	10	0.64 U	2.3 J	0.74 U	***5900***	0.62 U	1.1 J	250
o-Xylene	600	0.5 U	11	2.7 J	0.5 U	0.63 U	***5100***	0.52 U	0.49 U	***1300*** D
Styrene	NC	0.36 U	0.36 U	0.39 U	0.36 U	0.45 U	48 U	0.38 U	0.36 U	2.6 U
Bromoform	NC	0.34 U	0.34 U	0.37 U	0.34 U	0.43 U	35 U	0.36 U	0.34 U	2.5 U
Isopropylbenzene	2,300	0.43 U	3.6 J	0.46 U	0.43 U	0.54 U	1000	0.45 U	0.42 U	800
1,1,2,2-Tetrachloroethane	600	0.61 U	0.6 U	0.66 U	0.61 U	0.77 U	69 U	0.64 U	0.6 U	4.3 U
1,3-Dichlorobenzene	1,600	0.24 U	0.24 U	0.26 U	0.24 U	0.31 U	52 U	0.25 U	0.24 U	1.7 U
1,4-Dichlorobenzene	8,500	0.4 U	0.4 U	0.44 U	0.4 U	0.51 U	54 U	0.42 U	0.4 U	2.9 U
1,2-Dichlorobenzene	7,900	0.47 U	0.46 U	0.51 U	0.47 U	0.59 U	51 U	0.49 U	0.46 U	3.4 U
1,2-Dibromo-3-Chloropropane	NC	0.78 U	0.77 U	0.85 U	0.78 U	0.98 U	130 U	0.82 U	0.77 U	5.5 U
1,2,4-Trichlorobenzene	3,400	0.29 U	0.28 U	0.31 U	0.29 U	0.36 U	40 U	0.3 U	0.28 U	2 U
Total Confident Conc. VOC	10,000	56.5	28.5	22.5	58.8	ND	***20,080***	8.3	23.1	5,006

Summary of Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-30

Sample Location Sample Interval (Feet bgs) Sampling Date Units Volatile Organic Compounds (ug/Kg)		**SB-46** 4.5 to 5.5 07/07/04 ug/Kg	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Dichlorodifluoromethane	NC	1.6 U	10	0	0%	0	0%	< 1.4	< 46
Chloromethane	NC	0.42 U	10	0	0%	0	0%	< 0.38	< 95
Vinyl Chloride	200	0.3 U	10	0	0%	0	0%	< 0.27	< 37
Bromomethane	NC	0.91 U	10	0	0%	0	0%	< 0.8	< 110
Chloroethane	1,900	0.67 U	10	0	0%	0	0%	< 0.6	< 120
Trichlorofluoromethane	NC	3.2 U	10	0	0%	0	0%	< 2.8	< 80
1,1,2-Trichlorotrifluoroethane	6,000	0.59 U	10	0	0%	0	0%	< 0.52	< 96
1,1-Dichloroethene	400	0.28 U	10	0	0%	0	0%	< 0.24	< 45
Acetone	200	9.6 U	10	4	40%	2	20%	< 8.5	3,700
Carbon Disulfide	2,700	0.13 U	10	2	20%	0	0%	< 0.11	< 54
Methyl tert-butyl Ether	120	0.29 U	10	0	0%	0	0%	< 0.26	< 50
Methyl Acetate	NC	1.6 U	10	0	0%	0	0%	< 1.4	< 120
Methylene Chloride	100	6.4 J	10	4	40%	0	0%	< 0.77	< 86
trans-1,2-Dichloroethene	300	0.48 U	10	0	0%	0	0%	< 0.42	< 71
1,1-Dichloroethane	200	0.45 U	10	0	0%	0	0%	< 0.4	< 30
Cyclohexane	NC	0.39 U	10	1	10%	0	0%	< 0.35	< 51
2-Butanone	300	2.9 U	10	1	10%	0	0%	< 2.6	< 390
Carbon Tetrachloride	600	0.38 U	10	0	0%	0	0%	< 0.34	< 65
cis-1,2-Dichloroethene	NC	0.45 U	10	0	0%	0	0%	< 0.4	< 110
Chloroform	300	0.3 U	10	0	0%	0	0%	< 0.27	< 80
1,1,1-Trichloroethane	800	0.35 U	10	0	0%	0	0%	< 0.31	< 57
Methylcyclohexane	NC	0.46 U	10	3	30%	0	0%	< 0.4	2,200
Benzene	60	0.26 U	10	3	30%	1	10%	< 0.23	850
1,2-Dichloroethane	200	3.9 U	10	0	0%	0	0%	< 3.5	< 44
Trichloroethene	700	0.41 U	10	1	10%	0	0%	< 0.36	< 93
1,2-Dichloropropane	NC	0.43 U	10	0	0%	0	0%	< 0.38	< 44
Bromodichloromethane	NC	0.43 U	10	0	0%	0	0%	< 0.38	< 48
4-Methyl-2-Pentanone	1,000	3.1 U	10	0	0%	0	0%	< 2.7	< 180
Toluene	1,500	0.33 U	10	2	20%	0	0%	< 0.29	280
t-1,3-Dichloropropene	NC	0.33 U	10	0	0%	0	0%	< 0.29	< 59
cis-1,3-Dichloropropene	NC	0.25 U	10	0	0%	0	0%	< 0.22	< 21
1,1,2-Trichloroethane	NC	0.65 U	10	0	0%	0	0%	< 0.57	< 72
2-Hexanone	NC	4.1 U	10	0	0%	0	0%	< 3.6	< 92
Dibromochloromethane	NA	0.37 U	10	0	0%	0	0%	< 0.33	< 52
1,2-Dibromoethane	NC	0.53 U	10	0	0%	0	0%	< 0.47	< 88
Tetrachloroethene	1,400	0.81 U	10	6	60%	0	0%	< 0.77	< 46
Chlorobenzene	1,700	0.45 U	10	0	0%	0	0%	< 0.4	< 51
Ethyl Benzene	5,500	0.32 U	10	2	20%	0	0%	< 0.28	1,900
m/p-Xylenes	1,200	0.66 U	10	6	60%	1	10%	< 0.62	5,900
o-Xylene	600	0.55 U	10	4	40%	2	20%	< 0.49	5,100
Styrene	NC	0.4 U	10	0	0%	0	0%	< 0.36	< 48
Bromoform	NC	0.38 U	10	0	0%	0	0%	< 0.34	< 35
Isopropylbenzene	2,300	0.47 U	10	3	30%	0	0%	< 0.42	1,000
1,1,2,2-Tetrachloroethane	600	0.68 U	10	0	0%	0	0%	< 0.6	< 69
1,3-Dichlorobenzene	1,600	0.27 U	10	0	0%	0	0%	< 0.24	< 52
1,4-Dichlorobenzene	8,500	0.45 U	10	0	0%	0	0%	< 0.4	< 54
1,2-Dichlorobenzene	7,900	0.52 U	10	0	0%	0	0%	< 0.46	< 51
1,2-Dibromo-3-Chloropropane	NC	0.87 U	10	0	0%	0	0%	< 0.77	< 130
1,2,4-Trichlorobenzene	3,400	0.32 U	10	0	0%	0	0%	< 0.28	< 40
Total Confident Conc. VOC	10,000	6.4							

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-31

Sample Location		B-43	SB-43	SB-43	SB-43	SB-44	SB-44	SB-45	SB-45	SB-45
Sample Interval (Feet bgs)		7 to 7.5	6 to 8	8 to 10	23 to 23.5	6.0 to 8.0	8 to 10	7 to 8	7 to 7.5	31.5 to 32
Sampling Date		07/23/04	8/2/04	8/2/04	07/23/04	08/02/04	08/02/04	07/08/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO									
Benzaldehyde	NC	74 U	730 U	1100 J	39 U	460 U	36 U	77 U	360 U	52 U
Phenol	30 or MDL	32 U	310 U	340 U	16 U	200 U	15 U	33 U	150 U	22 U
bis(2-Chloroethyl)ether	NC	37 U	370 U	400 U	19 U	230 U	18 U	39 U	180 U	26 U
2-Chlorophenol	800	33 U	320 U	350 U	17 U	210 U	16 U	34 U	160 U	23 U
2-Methylphenol	100 or MDL	48 U	470 U	520 U	25 U	300 U	23 U	50 U	230 U	34 U
2,2-oxybis(1-Chloropropane)	NC	41 U	410 U	440 U	21 U	260 U	20 U	43 U	200 U	29 U
Acetophenone	NC	40 U	390 U	430 U	21 U	250 U	19 UJ	41 U	190 U	28 U
3+4-Methylphenols	900	35 U	340 U	380 U	18 U	220 U	17 U	36 U	170 U	25 U
N-Nitroso-di-n-propylamine	NC	33 U	330 U	360 U	17 U	210 U	16 U	35 U	160 U	24 U
Hexachloroethane	NC	36 U	360 U	390 U	19 U	230 U	17 U	38 U	180 U	26 U
Nitrobenzene	200 or MDL	38 U	380 U	420 U	20 U	240 U	19 UJ	40 U	190 U	27 U
Isophorone	4,400	28 U	280 U	300 U	15 U	180 U	14 UJ	29 U	140 U	20 U
2-Nitrophenol	330 or MDL	30 U	300 U	330 U	16 U	190 U	15 UJ	32 U	150 U	22 U
2,4-Dimethylphenol	NC	41 U	410 U	440 U	21 U	260 U	20 UJ	43 U	200 U	29 U
bis(2-Chloroethoxy)methane	NC	35 U	340 U	370 U	18 U	220 U	17 UJ	36 U	170 U	24 U
2,4-Dichlorophenol	400	27 U	260 U	290 U	14 U	170 U	13 UJ	28 U	130 U	19 U
Naphthalene	13,000	16 U	1800 J	180 U	47	100 U	610 J	17 U	80 U	2600
4-Chloroaniline	220 or MDL	280 U	2800 U	3000 U	150 U	1800 U	140 UJ	290 U	1400 U	200 U
Hexachlorobutadiene	NC	27 U	260 U	290 U	14 U	170 U	13 UJ	28 U	130 U	19 U
Caprolatam	NC	28 U	280 U	300 U	15 U	170 U	13 UJ	29 U	140 U	20 U
4-Chloro-3-methylphenol	240 or MDL	22 U	220 U	240 U	12 U	140 U	11 UJ	23 U	110 U	16 U
2-Methylnaphthalene	36,400	13 U	5600 J	140 U	6.8 U	82 U	2200 J	14 U	64 U	810
Hexachlorocyclopentadiene	NC	19 UJ	190 UJ	210 UJ	9.9 UJ	120 UJ	9.2 UJ	20 UJ	93 UJ	13 UJ
2,4,6-Trichlorophenol	NC	27 U	270 U	300 U	14 U	170 U	13 U	29 U	130 U	19 U
2,4,5-Trichlorophenol	100	50 U	500 U	540 U	26 U	310 U	24 U	52 U	240 U	35 U
1,1-Biphenyl	NC	22 U	220 U	240 U	12 U	140 U	11 U	23 U	110 U	94 J
2-Chloronaphthalene	NC	16 U	160 U	170 U	8.2 U	99 U	7.6 U	16 U	77 U	11 U
2-Nitroaniline	430 or MDL	27 U	270 U	300 U	14 U	170 U	13 U	29 U	130 U	19 U
Dimethylphthalate	2,000	18 U	180 U	200 U	9.4 U	110 U	8.7 U	19 U	88 U	13 U
Acenaphthylene	41,000	23 U	220 U	240 U	12 U	140 U	11 U	24 U	110 U	96 J
2,6-Dinitrotoluene	1,000	32 U	320 U	350 U	17 U	200 U	16 U	34 U	160 U	23 U
3-Nitroaniline	500 or MDL	120 U	1200 U	1300 U	64 U	770 U	59 U	130 U	600 U	87 U
Acenaphthene	50,000	17 U	170 U	180 U	8.7 U	580 J	48 J	17 U	82 U	820
2,4-Dinitrophenol	200 or MDL	33 U	330 U	360 U	17 U	210 U	16 U	35 U	160 U	24 U
4-Nitrophenol	100 or MDL	74 U	730 U	800 U	39 U	460 U	36 U	77 U	360 U	***210*** J
Dibenzofuran	6,200	25 U	250 U	270 U	13 U	160 U	12 U	26 U	120 U	220 J
2,4-Dinitrotoluene	1,000	15 U	150 U	160 U	7.9 U	95 U	7.3 U	16 U	74 U	11 U
Diethylphthalate	7,100	24 U	240 U	260 U	12 U	150 U	11 U	25 U	120 U	17 U
4-Chlorophenyl-phenylether	NC	19 U	190 U	200 U	9.8 U	120 U	9.1 U	20 U	92 U	13 U
Fluorene	50,000	77 J	210 U	230 U	11 U	130 U	71 J	22 U	110 U	630
4-Nitroaniline	NC	59 U	590 U	640 U	31 U	370 U	29 U	62 U	290 U	42 U
4,6-Dinitro-2-methylphenol	NC	44 U	440 U	470 U	23 U	280 U	21 U	46 U	210 U	31 U
N-Nitrosodiphenylamine	NC	19 U	190 U	210 U	10 U	120 U	9.3 U	20 U	94 U	14 U
4-Bromophenyl-phenylether	NC	20 U	200 U	210 U	10 U	120 U	9.6 U	21 U	97 U	14 U
Hexachlorobenzene	410	14 U	140 U	150 U	7.4 U	89 U	6.9 U	15 U	69 U	10 U
Atrazine	NC	23 U	230 U	250 U	12 U	140 U	11 U	24 U	110 U	16 U
Pentachlorophenol	1000 or MDL	24 U	230 U	250 U	12 U	150 U	11 U	25 U	120 U	17 U
Phenanthrene	50,000	760	840 J	4300 J	290	3200 J	340 J	760 J	560 J	3700
Anthracene	50,000	240 J	180 U	1300 J	100	1300 J	84 J	19 U	88 U	820
Carbazole	NC	17 U	170 U	180 U	8.7 U	100 U	8.1 U	17 U	82 U	210 J
Di-n-butylphthalate	8,100	10 U	100 U	110 U	5.2 U	63 U	4.9 U	11 U	49 U	7.1 U

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-31

Sample Location		B-43	SB-43	SB-43	SB-43	SB-44	SB-44	SB-45	SB-45	SB-45
Sample Interval (Feet bgs)		7 to 7.5	6 to 8	8 to 10	23 to 23.5	6.0 to 8.0	8 to 10	7 to 8	7 to 7.5	31.5 to 32
Sampling Date		07/23/04	8/2/04	8/2/04	07/23/04	08/02/04	08/02/04	07/08/04	07/22/04	07/22/04
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO									
Fluoranthene	50,000	1200	100 U	7000 J	620	3400 J	290 J	500 J	620 J	1500
Pyrene	50,000	1200	960 J	13000	470	5200	270 J	1000	700 J	1700
Butylbenzylphthalate	50,000	25 U	250 U	270 U	13 U	160 U	12 U	26 U	120 U	18 U
3,3-Dichlorobenzidine	NA	120 U	1200 U	1300 U	63 U	760 U	59 U	130 U	590 U	86 U
Benzo(a)anthracene	224 or MDL	***710*** J	110 U	***3600*** J	***270***	***1500*** J	110 J	***390*** J	56 U	***740***
Chrysene	400	***570*** J	240 U	***3700*** J	230	***1600*** J	110 J	***510*** J	120 U	***650***
bis(2-Ethylhexyl)phthalate	50,000	360 J	170 U	980 J	210	1800 J	170 J	18 U	85 U	67 J
Di-n-octyl phthalate	50,000	18 U	180 U	200 U	9.4 U	110 U	8.7 U	19 U	88 U	13 U
Benzo(b)fluoranthene	1,100	750 J	400 R	***4100*** J	280	***1400*** J	98 J	240 J	200 U	550
Benzo(k)fluoranthene	1,100	340 J	260 R	***2000*** J	150	630 J	46 J	140 J	130 U	240 J
Benzo(a)pyrene	61 or MDL	***600*** J	130 R	***3000*** J	***230***	***1000*** J	***71*** J	***230*** J	64 U	***530*** J
Indeno(1,2,3-cd)pyrene	3,200	210 J	180 U	200 U	45 J	110 U	8.8 U	120 J	89 U	270 J
Dibenz(a,h)anthracene	14 or MDL	22 U	220 R	240 UJ	12 U	140 R	11 U	23 U	110 U	16 U
Benzo(g,h,i)perylene	50,000	230 J	330 R	860 J	67	210 R	16 U	96 J	160 U	250 J
Total Confident Conc. SVOC	500,000	7,247	9,200	44,940	3,009	21,610	4,518	3,986	1,880	16,707
Carcinogenic SVOCs in BaP Equivalents		776.1	ND	3,827	293.3	1,312.3	93.4	311.5	ND	694.9

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-31

Sample Location		**SB-46**							
Sample Interval (Feet bgs)		4.5 to 5.5							
Sampling Date		07/07/04							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NC	41 U	10	1	10%	0	0%	< 36	1,100
Phenol	30 or MDL	18 U	10	0	0%	0	0%	< 15	< 340
bis(2-Chloroethyl)ether	NC	21 U	10	0	0%	0	0%	< 18	< 400
2-Chlorophenol	800	18 U	10	0	0%	0	0%	< 16	< 350
2-Methylphenol	100 or MDL	27 U	10	0	0%	0	0%	< 23	< 520
2,2-oxybis(1-Chloropropane)	NC	23 U	10	0	0%	0	0%	< 20	< 440
Acetophenone	NC	22 U	10	0	0%	0	0%	< 19	< 430
3+4-Methylphenols	900	19 U	10	0	0%	0	0%	< 17	< 380
N-Nitroso-di-n-propylamine	NC	19 U	10	0	0%	0	0%	< 16	< 360
Hexachloroethane	NC	20 U	10	0	0%	0	0%	< 17	< 390
Nitrobenzene	200 or MDL	21 U	10	0	0%	0	0%	< 19	< 420
Isophorone	4,400	16 U	10	0	0%	0	0%	< 14	< 300
2-Nitrophenol	330 or MDL	17 U	10	0	0%	0	0%	< 15	< 330
2,4-Dimethylphenol	NC	23 U	10	0	0%	0	0%	< 20	< 440
bis(2-Chloroethoxy)methane	NC	19 U	10	0	0%	0	0%	< 17	< 370
2,4-Dichlorophenol	400	15 U	10	0	0%	0	0%	< 13	< 290
Naphthalene	13,000	9.2 U	10	4	40%	0	0%	< 9.2	2,600
4-Chloroaniline	220 or MDL	160 U	10	0	0%	0	0%	< 140	< 3,000
Hexachlorobutadiene	NC	15 U	10	0	0%	0	0%	< 13	< 290
Caprolatam	NC	16 U	10	0	0%	0	0%	< 13	< 300
4-Chloro-3-methylphenol	240 or MDL	13 U	10	0	0%	0	0%	< 11	< 240
2-Methylnaphthalene	36,400	7.3 U	10	3	30%	0	0%	< 6.8	5,600
Hexachlorocyclopentadiene	NC	11 UJ	10	0	0%	0	0%	< 9.2	< 210
2,4,6-Trichlorophenol	NC	15 U	10	0	0%	0	0%	< 13	< 300
2,4,5-Trichlorophenol	100	28 U	10	0	0%	0	0%	< 24	< 540
1,1-Biphenyl	NC	13 U	10	1	10%	0	0%	< 11	< 240
2-Chloronaphthalene	NC	8.8 U	10	0	0%	0	0%	< 7.6	< 170
2-Nitroaniline	430 or MDL	15 U	10	0	0%	0	0%	< 13	< 300
Dimethylphthalate	2,000	10 U	10	0	0%	0	0%	< 8.7	< 200
Acenaphthylene	41,000	13 U	10	1	10%	0	0%	< 11	< 240
2,6-Dinitrotoluene	1,000	18 U	10	0	0%	0	0%	< 16	< 350
3-Nitroaniline	500 or MDL	68 U	10	0	0%	0	0%	< 59	< 1,300
Acenaphthene	50,000	9.3 U	10	3	30%	0	0%	< 8.7	820
2,4-Dinitrophenol	200 or MDL	19 U	10	0	0%	0	0%	< 16	< 360
4-Nitrophenol	100 or MDL	41 U	10	1	10%	1	10%	< 36	< 800
Dibenzofuran	6,200	14 U	10	1	10%	0	0%	< 12	< 270
2,4-Dinitrotoluene	1,000	8.4 U	10	0	0%	0	0%	< 7.3	< 160
Diethylphthalate	7,100	13 U	10	0	0%	0	0%	< 11	< 260
4-Chlorophenyl-phenylether	NC	10 U	10	0	0%	0	0%	< 9.1	< 200
Fluorene	50,000	12 U	10	3	30%	0	0%	< 11	630
4-Nitroaniline	NC	33 U	10	0	0%	0	0%	< 29	< 640
4,6-Dinitro-2-methylphenol	NC	25 U	10	0	0%	0	0%	< 21	< 470
N-Nitrosodiphenylamine	NC	11 U	10	0	0%	0	0%	< 9.3	< 210
4-Bromophenyl-phenylether	NC	11 U	10	0	0%	0	0%	< 9.6	< 210
Hexachlorobenzene	410	7.9 U	10	0	0%	0	0%	< 6.9	< 150
Atrazine	NC	13 U	10	0	0%	0	0%	< 11	< 250
Pentachlorophenol	1000 or MDL	13 U	10	0	0%	0	0%	< 11	< 250
Phenanthrene	50,000	9.5 U	10	9	90%	0	0%	< 9.5	4,300
Anthracene	50,000	10 U	10	6	60%	0	0%	< 10	1,300
Carbazole	NC	9.3 U	10	1	10%	0	0%	< 8.1	210
Di-n-butylphthalate	8,100	57 J	10	1	10%	0	0%	< 4.9	< 110

Summary of Semi-Volatile Organic Compounds in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-31

Sample Location		**SB-46**							
Sample Interval (Feet bgs)		4.5 to 5.5							
Sampling Date		07/07/04							
Units		ug/Kg							
Semivolatile Organic Compounds (ug/kg)	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Fluoranthene	50,000	5.9 U	10	8	80%	0	0%	< 5.9	7,000
Pyrene	50,000	7.5 U	10	9	90%	0	0%	< 7.5	13,000
Butylbenzylphthalate	50,000	14 U	10	0	0%	0	0%	< 12	< 270
3,3-Dichlorobenzidine	NA	68 U	10	0	0%	0	0%	< 59	< 1,300
Benzo(a)anthracene	224 or MDL	6.4 U	10	7	70%	6	60%	< 6.4	3,600
Chrysene	400	13 U	10	7	70%	5	50%	< 13	3,700
bis(2-Ethylhexyl)phthalate	50,000	100 J	10	7	70%	0	0%	< 18	1,800
Di-n-octyl phthalate	50,000	10 U	10	0	0%	0	0%	< 8.7	< 200
Benzo(b)fluoranthene	1,100	23 U	10	7	70%	2	20%	< 23	4,100
Benzo(k)fluoranthene	1,100	14 U	10	7	70%	1	10%	< 14	2,000
Benzo(a)pyrene	61 or MDL	7.3 U	10	7	70%	7	70%	< 7.3	3,000
Indeno(1,2,3-cd)pyrene	3,200	10 U	10	4	40%	0	0%	< 8.8	270
Dibenz(a,h)anthracene	14 or MDL	12 U	10	0	0%	0	0%	< 11	< 240
Benzo(g,h,i)perylene	50,000	18 U	10	5	50%	0	0%	< 16	860
Total Confident Conc. SVOC	500,000	157							
Carcinogenic SVOCs in BaP Equivalents		ND							

Summary of Metals and Cyanide in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-32

Sample Location		B-43	SB-43	SB-43	SB-43	SB-44	SB-44	SB-45	SB-45	SB-45
Sample Interval (Feet bgs)		7 to 7.5	6 to 8	8 to 10	23 to 23.5	6.0 to 8.0	8 to 10	7 to 8	7 to 7.5	31.5 to 32
Sampling Date		07/23/04	08/02/04	08/02/04	07/23/04	08/02/04	08/02/04	07/22/04	07/08/04	07/22/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
PP Metals	TAGM RSCO									
Antimony	B	0.645 U	0.643 U	0.694 U	0.678 U	0.621 U	4.1 J	0.641 U	0.67 U	0.929 U
Arsenic	12	4.71	2.4	10.4	2.16	3.52	7.67	***15.1***	7.99	***20.3***
Beryllium	600	0.506 J	0.279 J	0.384 J	0.367 J	0.483 J	0.402 J	0.373 J	0.299 J	0.826
Cadmium	1	***1.29***	***1.26***	***3.24***	0.984	0.327 J	***1.46***	***1.79***	0.242 J	***2.25***
Chromium	40	17.4	13.2	30.5	9.62	18.7	18.1	16	13.3	27.3
Copper	50	18.6	39.5	***181***	13.7	23.8	***152***	46.8	33.4	***73.2***
Lead	500	62.1	89.9 J	***956*** J	149	46.2	***831***	269	217	206
Mercury	0.1	0.08	***0.76*** J	***9.3*** J	***0.18***	***0.16*** J	***1.3*** J	***0.76***	***1.9*** J	***1.4***
Nickel	25	13.5	12.2	19	8.71	12.5	22.5	24.7	20.4	***25.8***
Selenium	3.9	1.37	0.807 J	2.51	1.17 J	1.13	1.05 J	2.44	0.911 J	2.05
Silver	B	0.239 J	0.352 J	2.38	0.128 J	0.116 U	0.152 U	0.967 J	0.559 J	1.23 J
Thallium	B	0.474 J	0.377 U	0.407 U	0.398 U	0.364 U	0.478 U	0.376 U	0.393 J	0.545 U
Zinc	50	***112***	***108***	***383***	***109***	***63.4***	***485***	***147***	***105***	***159***

Sample Location		B-43	SB-43	SB-43	SB-43	SB-44	SB-44	SB-45	SB-45	SB-45
Sample Interval (Feet bgs)		7 to 7.5	6 to 8	8 to 10	23 to 23.5	6.0 to 8.0	8 to 10	7 to 8	7 to 7.5	31.5 to 32
Sampling Date		07/23/04	07/29/04	08/02/04	07/23/04	8/2/04	8/2/04	07/22/04	07/08/04	07/22/04
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	TAGM RSCO									
Cyanide	NC	0.57 U	0.58 U	0.62 U	0.6 U	0.56 R	0.72 R	0.57 U	0.601 U	0.83 U
Amenable Cyanide	NC	0.57 U	0.58 U	0.62 U	0.6 U	0.56 R	0.72 R	0.57 U	0.6 U	0.83 U

Summary of Metals and Cyanide in Subsurface Soil - Area 6
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-32

Sample Location		**SB-46**							
Sample Interval (Feet bgs)		4.5 to 5.5							
Sampling Date		07/07/04							
Units		mg/Kg							
PP Metals	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	B	0.71 U	10	1	10%	0	0%	< 0.621	4.1
Arsenic	12	0.946 J	10	10	100%	2	20%	0.946	20.3
Beryllium	600	0.382 J	10	10	100%	0	0%	0.279	0.826
Cadmium	1	0.274 J	10	10	100%	6	60%	0.242	3.24
Chromium	40	10.7	10	10	100%	0	0%	9.62	30.5
Copper	50	12.1	10	10	100%	3	30%	12.1	181
Lead	500	15.4	10	10	100%	2	20%	15.4	956
Mercury	0.1	0.01 J	10	10	100%	8	80%	0.01	9.3
Nickel	25	13.5	10	10	100%	1	10%	8.71	25.8
Selenium	3.9	1.23 J	10	10	100%	0	0%	0.807	2.51
Silver	B	0.132 U	10	7	70%	0	0%	< 0.116	2.38
Thallium	B	0.416 J	10	3	30%	0	0%	< 0.364	0.545
Zinc	50	47.1	10	10	100%	9	90%	47.1	485

Sample Location		**SB-46**							
Sample Interval (Feet bgs)		4.5 to 5.5							
Sampling Date		07/07/04							
Units		mg/Kg							
	TAGM RSCO		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	NC	0.643 U	10	2	20%	0	0%	< 0.56	< 0.83
Amenable Cyanide	NC	0.64 U	10	2	20%	0	0%	< 0.56	< 0.83

Laboratory and Data Validation Qualifiers
Former Broadway/Dyckman Street Station
Consolidated Edison Company of New York, Inc.

The following qualifiers have been used for the soil and groundwater data in the data tables.

Qualifiers

- U - The compound was not detected at the indicated concentration
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concetration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- D - The compound was found at a dilution factor.
- E - The analyte exceeded the calibrated range of the instrument for that specific analysis.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- R - Data rejected based upon TRC data validation.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed
- NC - No criteria listed in the NYSDEC TAGM 4046.
- N/A - Not available according to the NYSDEC.

Summary of Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-33

Sample Location		MW-5A	MW-5B	MW-7A	MW-12A	MW-12B	MW-22A	MW-24A	MW-29A	MW-31A	MW-34A
Sampling Date		10/12/05	10/12/05	10/11/05	10/11/05	10/11/05	10/11/05	10/12/05	10/12/05	10/11/05	10/11/05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds	TOGS Class GA										
Dichlorodifluoromethane	5	0.85 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Chloromethane	5	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Vinyl Chloride	2	1.6 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromomethane	5	2.1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Chloroethane	5	4.1 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Trichlorofluoromethane	5	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-Trichlorotrifluoroethane	NC	6.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1-Dichloroethene	5	2.1 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	50	***1100***	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	***76***
Carbon Disulfide	NC	2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl tert-butyl Ether	10	1.4 U	2.3 J	0.28 U	3.9 J	0.28 U	3.9 J	0.28 U	0.28 U	0.28 U	0.28 U
Methyl Acetate	NC	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene Chloride	5	2.1 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
trans-1,2-Dichloroethene	5	2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
1,1-Dichloroethane	5	1.9 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Cyclohexane	NC	1.8 U	0.36 U	0.55 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
2-Butanone	NC	37 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon Tetrachloride	5	5.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	5	1.5 U	0.29 U	0.29 U	0.29 U	2.9 J	0.29 U	0.29 U	0.7 J	0.29 U	0.29 U
Chloroform	7	1.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1,1,1-Trichloroethane	5	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methylcyclohexane	NC	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Benzene	1	***85***	0.39 U	***20***	***1.2*** J	***65***	0.39 U	***19***	0.39 U	0.39 U	0.39 U
1,2-Dichloroethane	0.6	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Trichloroethene	5	2.3 U	0.46 U	0.46 U	0.46 U	2.6 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichloropropane	1	2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Bromodichloromethane	50	1.7 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
4-Methyl-2-Pentanone	NC	8.1 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Toluene	5	3.6 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1 J	0.36 U	0.36 U	0.36 U
t-1,3-Dichloropropene	0.4	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
cis-1,3-Dichloropropene	0.4	1.8 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
1,1,2-Trichloroethane	5	2 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
2-Hexanone	50	8.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromochloromethane	50	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane	NC	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Tetrachloroethene	5	2.4 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Chlorobenzene	5	2.3 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
Ethyl Benzene	5	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	***6.4***	0.45 U	0.45 U	0.45 U
m/p-Xylenes	5	***400***	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.1 J	1.2 U	1.2 U	1.2 U
o-Xylene	5	***520***	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	3.6 J	0.46 U	0.46 U	0.46 U
Styrene	5	2 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Bromoform	50	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Isopropylbenzene	5	2.2 U	0.44 U	2.3 J	0.44 U	0.44 U	0.44 U	2 J	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	5	1.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,3-Dichlorobenzene	3	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	2.7 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2-Dichlorobenzene	3	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2-Dibromo-3-Chloropropane	0.04	1.9 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2,4-Trichlorobenzene	5	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Total Confident Conc. VOC	NC	2,145.6	2.3	22.9	5.1	70.5	3.9	34	1	-	76

Summary of Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-33

Sample Location		MW-40A								
Sampling Date		10/11/05								
Units		ug/L								
Volatile Organic Compounds	TOGS Class GA		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration	
Dichlorodifluoromethane	5	0.17 U	11	0	0%	0	0%	< 0.17	< 1	
Chloromethane	5	0.34 U	11	0	0%	0	0%	< 0.34	< 2	
Vinyl Chloride	2	0.33 U	11	0	0%	0	0%	< 0.33	< 2	
Bromomethane	5	0.41 U	11	0	0%	0	0%	< 0.41	< 2	
Chloroethane	5	0.83 U	11	0	0%	0	0%	< 0.83	< 4	
Trichlorofluoromethane	5	0.22 U	11	0	0%	0	0%	< 0.22	< 1	
1,1,2-Trichlorotrifluoroethane	NC	1.3 U	11	0	0%	0	0%	< 1.3	< 7	
1,1-Dichloroethene	5	0.42 U	11	0	0%	0	0%	< 0.42	< 2	
Acetone	50	2.3 U	11	2	18%	2	18%	< 2.3	1,100	
Carbon Disulfide	NC	0.4 U	11	0	0%	0	0%	< 0.4	< 2	
Methyl tert-butyl Ether	10	0.28 U	11	3	27%	0	0%	< 0.28	4	
Methyl Acetate	NC	0.2 U	11	0	0%	0	0%	< 0.2	< 1	
Methylene Chloride	5	0.43 U	11	0	0%	0	0%	< 0.43	< 2	
trans-1,2-Dichloroethene	5	0.4 U	11	0	0%	0	0%	< 0.4	< 2	
1,1-Dichloroethane	5	0.38 U	11	0	0%	0	0%	< 0.38	< 2	
Cyclohexane	NC	0.36 U	11	1	9%	0	0%	< 0.36	2	
2-Butanone	NC	1.1 U	10	0	0%	0	0%	< 1.1	< 37	
Carbon Tetrachloride	5	1.1 U	11	0	0%	0	0%	< 1.1	< 6	
cis-1,2-Dichloroethene	5	0.29 U	11	2	18%	0	0%	< 0.29	3	
Chloroform	7	0.33 U	11	0	0%	0	0%	< 0.33	< 2	
1,1,1-Trichloroethane	5	0.32 U	11	0	0%	0	0%	< 0.32	< 2	
Methylcyclohexane	NC	0.34 U	11	0	0%	0	0%	< 0.34	< 2	
Benzene	1	0.39 U	11	5	45%	5	45%	< 0.39	85	
1,2-Dichloroethane	0.6	0.34 U	11	0	0%	0	0%	< 0.34	< 2	
Trichloroethene	5	0.46 U	11	1	9%	0	0%	< 0.46	3	
1,2-Dichloropropane	1	0.4 U	11	0	0%	0	0%	< 0.4	< 2	
Bromodichloromethane	50	0.33 U	11	0	0%	0	0%	< 0.33	< 2	
4-Methyl-2-Pentanone	NC	1.6 U	11	0	0%	0	0%	< 1.6	< 8	
Toluene	5	0.36 U	11	2	18%	0	0%	< 0.36	4	
t-1,3-Dichloropropene	0.4	0.32 U	11	0	0%	0	0%	< 0.32	< 2	
cis-1,3-Dichloropropene	0.4	0.36 U	11	0	0%	0	0%	< 0.36	< 2	
1,1,2-Trichloroethane	5	0.41 U	11	0	0%	0	0%	< 0.41	< 2	
2-Hexanone	50	1.7 U	11	0	0%	0	0%	< 1.7	< 8	
Dibromochloromethane	50	0.26 U	11	0	0%	0	0%	< 0.26	< 1	
1,2-Dibromoethane	NC	0.32 U	11	0	0%	0	0%	< 0.32	< 2	
Tetrachloroethene	5	0.48 U	11	0	0%	0	0%	< 0.48	< 2	
Chlorobenzene	5	0.47 U	11	0	0%	0	0%	< 0.47	< 2	
Ethyl Benzene	5	0.45 U	11	1	9%	1	9%	< 0.45	6	
m/p-Xylenes	5	1.2 U	11	2	18%	1	9%	< 1.2	400	
o-Xylene	5	0.46 U	11	2	18%	1	9%	< 0.46	520	
Styrene	5	0.41 U	11	0	0%	0	0%	< 0.41	< 2	
Bromoform	50	0.32 U	11	0	0%	0	0%	< 0.32	< 2	
Isopropylbenzene	5	0.44 U	11	2	18%	0	0%	< 0.44	2	
1,1,2,2-Tetrachloroethane	5	0.3 U	11	0	0%	0	0%	< 0.3	< 2	
1,3-Dichlorobenzene	3	0.5 U	11	0	0%	0	0%	< 0.5	< 3	
1,4-Dichlorobenzene	3	0.54 U	11	0	0%	0	0%	< 0.54	< 3	
1,2-Dichlorobenzene	3	0.44 U	11	0	0%	0	0%	< 0.44	< 2	
1,2-Dibromo-3-Chloropropane	0.04	0.38 U	11	0	0%	0	0%	< 0.38	< 2	
1,2,4-Trichlorobenzene	5	0.46 U	11	0	0%	0	0%	< 0.46	< 2	
Total Confident Conc. VOC	NC	-								

Summary of Semi-Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-34

Sample Location		MW-5A	MW-5B	MW-7A	MW-12A	MW-12B	MW-22A	MW-24A	MW-29A	MW-31A	MW-34A
Sampling Date		10/12/05	10/12/05	10/11/05	10/11/05	10/11/05	10/11/05	10/12/05	10/12/05	10/11/05	10/11/05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Semivolatile Organic Compounds (ug/kg)	TOGS Class GA										
Benzaldehyde	NA	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.7 U	1.7 U
Phenol	1	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
bis(2-Chloroethyl)ether	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.5 U
2-Chlorophenol	NC	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
2-Methylphenol	NC	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U
2,2-oxybis(1-Chloropropane)	NC	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Acetophenone	NC	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U
3+4-Methylphenols	NC	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U
N-Nitroso-di-n-propylamine	NC	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Hexachloroethane	5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Nitrobenzene	0.4	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Isophorone	50	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2-Nitrophenol	NC	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2,4-Dimethylphenol	50	***500*** D	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
bis(2-Chloroethoxy)methane	5	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2,4-Dichlorophenol	5	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.4 U	1.4 U	1.5 U	1.4 U
Naphthalene	10	***170*** D	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	***18***	1.4 U	1.4 U	***11***
4-Chloroaniline	5	0.87 U	0.88 U	0.88 U	0.9 U	0.87 U	0.89 U	0.86 U	0.87 U	0.88 U	0.87 U
Hexachlorobutadiene	0.5	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Caprolatam	NC	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
4-Chloro-3-methylphenol	NC	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Methylnaphthalene	NC	16	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	100 D	1.1 U	1.1 U	13
Hexachlorocyclopentadiene	5	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,4,6-Trichlorophenol	NC	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
2,4,5-Trichlorophenol	NC	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Biphenyl	5	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.7 J
2-Chloronaphthalene	10	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Nitroaniline	5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Dimethylphthalate	50	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Acenaphthylene	NC	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
2,6-Dinitrotoluene	5	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
3-Nitroaniline	5	1 U	1 U	1 U	1.1 U	1 U	1.1 U	1 U	1 U	1 U	1 U
Acenaphthene	20	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	***35***	1.4 U	2.2 J	1.4 U
2,4-Dinitrophenol	10	3.5 U	3.6 U	3.6 U	3.7 U	3.5 U	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
4-Nitrophenol	NC	3.1 U	3.2 U	3.2 U	3.3 U	3.1 U	3.2 U	3.1 U	3.1 U	3.2 U	3.1 U
Dibenzofuran	NC	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	39	1.3 U	1.3 U	1.3 U
2,4-Dinitrotoluene	5	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Diethylphthalate	50	1.3 U	1.4 U	1.4 U	1.4 U	1.3 U	1.4 U	1.3 U	1.3 U	1.4 U	1.3 U
4-Chlorophenyl-phenylether	NC	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Fluorene	50	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	***54***	1.4 U	1.4 U	1.4 U
4-Nitroaniline	5	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
4,6-Dinitro-2-methylphenol	NC	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U
N-Nitrosodiphenylamine	50	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 J
4-Bromophenyl-phenylether	NC	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Hexachlorobenzene	0.04	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Atrazine	7.5	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Pentachlorophenol	1	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Phenanthrene	50	1.4 U	1.5 U	1.4 U	1.5 U	1.4 U	1.5 U	36	1.4 U	1.4 U	1.4 U
Anthracene	50	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	11	1.4 U	1.4 U	1.4 U
Carbazole	NC	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	56	1.3 U	1.3 U	1.3 U
Di-n-butylphthalate	50	8.3 JB	1.3 U	9.6 JB	8.5 JB	7.9 JB	8.9 JB	14 B	6.9 JB	12 B	15 B

Summary of Semi-Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-34

Sample Location		MW-5A	MW-5B	MW-7A	MW-12A	MW-12B	MW-22A	MW-24A	MW-29A	MW-31A	MW-34A
Sampling Date		10/12/05	10/12/05	10/11/05	10/11/05	10/11/05	10/11/05	10/12/05	10/12/05	10/11/05	10/11/05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Semivolatile Organic Compounds (ug/kg)	TOGS Class GA										
Fluoranthene	50	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	9 J	1.2 U	1.2 U	1.2 U
Pyrene	50	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7 J	1.5 U	1.5 U	1.5 U
Butylbenzylphthalate	5	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	1.4 U
3,3-Dichlorobenzidine	5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	1.1 U	1.1 U
Benzo(a)anthracene	0.002	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Chrysene	0.002	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
bis(2-Ethylhexyl)phthalate	5	2.6 J	1.6 U	1.6 U	1.6 U	1.5 U	1.6 U	4.7 J	1.8 J	1.6 U	1.5 U
Di-n-octyl phthalate	NC	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Benzo(b)fluoranthene	0.002	0.76 U	0.77 U	0.76 U	0.79 U	0.76 U	0.78 U	0.75 U	0.76 U	0.76 U	0.76 U
Benzo(k)fluoranthene	0.002	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)pyrene	NC	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Indeno(1,2,3-cd)pyrene	0.002	0.84 U	0.85 U	0.84 U	0.87 U	0.84 U	0.86 U	0.83 U	0.84 U	0.84 U	0.84 U
Dibenz(a,h)anthracene	NC	0.87 U	0.89 U	0.88 U	0.91 U	0.87 U	0.9 U	0.87 U	0.88 U	0.88 U	0.87 U
Benzo(g,h,i)perylene	NC	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Total Confident Conc. SVOC	NA	317	-	10	9	8	9	372	9	14	42

Summary of Semi-Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-34

Sample Location		MW-40A							
Sampling Date		10/11/05							
Units		ug/L							
Semivolatile Organic Compounds (ug/kg)	TOGS Class GA		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Benzaldehyde	NA	1.7 U	11	0	0%	0	0%	< 1.6	< 1.7
Phenol	1	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
bis(2-Chloroethyl)ether	1	1.5 U	11	0	0%	0	0%	< 1.4	< 1.5
2-Chlorophenol	NC	1.2 U	11	0	0%	0	0%	< 1.1	< 1.2
2-Methylphenol	NC	1.5 U	11	0	0%	0	0%	< 1.5	< 1.6
2,2-oxybis(1-Chloropropane)	NC	1.2 U	11	0	0%	0	0%	< 1.2	< 1.3
Acetophenone	NC	1.2 U	11	0	0%	0	0%	< 1.2	< 1.3
3+4-Methylphenols	NC	1.3 U	11	0	0%	0	0%	< 1.3	< 1.4
N-Nitroso-di-n-propylamine	NC	1.4 U	11	0	0%	0	0%	< 1.4	< 1.5
Hexachloroethane	5	1.2 U	11	0	0%	0	0%	< 1.2	< 1.2
Nitrobenzene	0.4	1.6 U	11	0	0%	0	0%	< 1.6	< 1.7
Isophorone	50	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
2-Nitrophenol	NC	1.4 U	11	0	0%	0	0%	< 1.4	< 1.4
2,4-Dimethylphenol	50	1.2 U	11	1	9%	1	9%	< 1.2	500
bis(2-Chloroethoxy)methane	5	1.4 U	11	0	0%	0	0%	< 1.4	< 1.4
2,4-Dichlorophenol	5	1.4 U	11	0	0%	0	0%	< 1.4	< 1.5
Naphthalene	10	1.4 U	11	3	27%	3	27%	< 1.4	170
4-Chloroaniline	5	0.87 U	11	0	0%	0	0%	< 0.86	< 0.9
Hexachlorobutadiene	0.5	1.4 U	11	0	0%	0	0%	< 1.4	< 1.4
Caprolatam	NC	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
4-Chloro-3-methylphenol	NC	1.4 U	11	0	0%	0	0%	< 1.4	< 1.4
2-Methylnaphthalene	NC	1.1 U	11	3	27%	0	0%	< 1.1	100
Hexachlorocyclopentadiene	5	1.2 U	11	0	0%	0	0%	< 1.2	< 1.2
2,4,6-Trichlorophenol	NC	1.2 U	11	0	0%	0	0%	< 1.1	< 1.2
2,4,5-Trichlorophenol	NC	1.2 U	11	0	0%	0	0%	< 1.2	< 1.3
1,1-Biphenyl	5	1.4 U	11	1	9%	0	0%	< 1.4	1.7
2-Chloronaphthalene	10	1.4 U	11	0	0%	0	0%	< 1.4	< 1.5
2-Nitroaniline	5	1.1 U	11	0	0%	0	0%	< 1.1	< 1.1
Dimethylphthalate	50	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
Acenaphthylene	NC	1.3 U	11	0	0%	0	0%	< 1.3	< 1.4
2,6-Dinitrotoluene	5	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
3-Nitroaniline	5	1 U	11	0	0%	0	0%	< 1	< 1.1
Acenaphthene	20	1.4 U	11	2	18%	1	9%	< 1.4	35
2,4-Dinitrophenol	10	3.5 U	11	0	0%	0	0%	< 3.5	< 3.7
4-Nitrophenol	NC	3.1 U	11	0	0%	0	0%	< 3.1	< 3.3
Dibenzofuran	NC	1.3 U	11	1	9%	0	0%	< 1.3	39
2,4-Dinitrotoluene	5	1.2 U	11	0	0%	0	0%	< 1.2	< 1.3
Diethylphthalate	50	1.3 U	11	0	0%	0	0%	< 1.3	< 1.4
4-Chlorophenyl-phenylether	NC	1.4 U	11	0	0%	0	0%	< 1.4	< 1.4
Fluorene	50	1.4 U	11	1	9%	1	9%	< 1.4	54
4-Nitroaniline	5	1.1 U	11	0	0%	0	0%	< 1.1	< 1.2
4,6-Dinitro-2-methylphenol	NC	1.6 U	11	0	0%	0	0%	< 1.6	< 1.7
N-Nitrosodiphenylamine	50	1.3 U	11	1	9%	0	0%	< 1.3	1.3
4-Bromophenyl-phenylether	NC	1.5 U	11	0	0%	0	0%	< 1.5	< 1.6
Hexachlorobenzene	0.04	1.2 U	11	0	0%	0	0%	< 1.2	< 1.3
Atrazine	7.5	1.3 U	11	0	0%	0	0%	< 1.3	< 1.3
Pentachlorophenol	1	1.6 U	11	0	0%	0	0%	< 1.6	< 1.7
Phenanthrene	50	1.4 U	11	1	9%	0	0%	< 1.4	36
Anthracene	50	1.4 U	11	1	9%	0	0%	< 1.4	11
Carbazole	NC	1.3 U	11	1	9%	0	0%	< 1.3	56
Di-n-butylphthalate	50	10 B	11	10	91%	0	0%	< 1.3	15

Summary of Semi-Volatile Organic Compounds in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-34

Sample Location		MW-40A							
Sampling Date		10/11/05							
Units		ug/L							
Semivolatile Organic Compounds (ug/kg)	TOGS Class GA		Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Fluoranthene	50	1.2 U	11	1	9%	0	0%	< 1.2	9.0
Pyrene	50	1.5 U	11	1	9%	0	0%	< 1.5	7.0
Butylbenzylphthalate	5	1.4 U	11	0	0%	0	0%	< 1.4	< 1.5
3,3-Dichlorobenzidine	5	1.1 U	11	0	0%	0	0%	< 1	< 1.1
Benzo(a)anthracene	0.002	1.1 U	11	0	0%	0	0%	< 1.1	< 1.2
Chrysene	0.002	1.7 U	11	0	0%	0	0%	< 1.7	< 1.8
bis(2-Ethylhexyl)phthalate	5	1.5 U	11	3	27%	0	0%	< 1.5	4.7
Di-n-octyl phthalate	NC	1.3 U	11	0	0%	0	0%	< 1.3	< 1.4
Benzo(b)fluoranthene	0.002	0.76 U	11	0	0%	0	0%	< 0.75	< 0.8
Benzo(k)fluoranthene	0.002	1.9 U	11	0	0%	0	0%	< 1.9	< 2.0
Benzo(a)pyrene	NC	1.2 U	11	0	0%	0	0%	< 1.2	< 1.2
Indeno(1,2,3-cd)pyrene	0.002	0.84 U	11	0	0%	0	0%	< 0.83	< 0.9
Dibenz(a,h)anthracene	NC	0.87 U	11	0	0%	0	0%	< 0.87	< 0.9
Benzo(g,h,i)perylene	NC	1.1 U	11	0	0%	0	0%	< 1.1	< 1.1
Total Confident Conc. SVOC	NA	10							

Summary of Metals and Cyanide in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-35

Sample Location		MW-5A	MW-5B	MW-7A	MW-12A	MW-12B	MW-22A	MW-24A	MW-29A	MW-31A	MW-34A	MW-40A
Sampling Date		10/12/05	10/12/05	10/11/05	10/11/05	10/11/05	10/11/05	10/12/05	10/12/05	10/11/05	10/11/05	10/11/05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PP Metals	TOGS Class GA											
Antimony	3	3.2 U	***3.4*** J	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Arsenic	25	***27.7***	4.2 J	8.2 J	3.3 U	5.8 J	3.3 U	3.3 U	12	3.3 U	7.5 J	3.3 U
Beryllium	3	0.14 J	0.11 J	0.18 J	0.09 U	0.09 U	0.12 J	0.09 U	0.11 J	0.09 U	0.09 U	0.09 U
Cadmium	5	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Chromium	50	0.34 U	0.34 U	1.2 J	5.2 J	1.7 J	8 J	0.34 U	0.34 U	0.55 J	1.7 J	4.3 J
Copper	200	46.3	3.6 U	8 J	5.9 J	12.7 J	6.3 J	3.6 U	3.6 U	9.6 J	16.9 J	32.2
Lead	25	***64.6***	2.8 U	3.9 J	2.8 U	2.8 U	2.8 U	5.3	4.1 J	14.6	3.3 J	2.8 U
Mercury	0.7	0.04 J	0.03 U	0.03 U	0.03 U	0.05 J	0.03 U	0.03 U	0.03 U	0.03 U	0.08 J	0.06 J
Nickel	100	1.6 U	1.6 U	1.6 U	1.6 U	12.6 J	1.9 J	1.6 U	1.6 U	4.4 J	2.3 J	2.2 J
Selenium	10	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3.1 J
Silver	50	1.6 U	1.6 U	1.9 J	1.6 U	1.6 U	1.6 U	2.1 J	1.6 U	1.6 U	1.6 U	1.6 U
Thallium	0.5	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	***5.2*** J	3.1 U	***6.2*** J	3.1 U	3.1 U	3.1 U
Zinc	2000	2.1 J	0.61 U	8.8 J	0.61 U	8.2 J	0.61 U	0.61 U	0.61 U	46.4	10.5 J	71.4

Sample Location		MW-5A	MW-5B	MW-7A	MW-12A	MW-12B	MW-22A	MW-24A	MW-29A	MW-31A	MW-34A	MW-40A
Sampling Date		10/12/05	10/12/05	10/11/05	10/11/05	10/11/05	10/11/05	10/12/05	10/12/05	10/11/05	10/11/05	10/11/05
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
	TOGS Class GA											
Cyanide	0.2	***1.4***	0.01 U	0.01 U	0.013	0.01	0.012	0.048	0.01 U	0.016	0.01 U	0.01 U
Amenable Cyanide	NA	0.14	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

Summary of Metals and Cyanide in Groundwater
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-35

Sample Location Sampling Date Units PP Metals	TOGS Class GA	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Antimony	3	11	1	9%	1	9%	< 3.2	3.4
Arsenic	25	11	6	55%	1	9%	< 3.3	27.7
Beryllium	3	11	5	45%	0	0%	< 0.09	0.18
Cadmium	5	11	0	0%	0	0%	< 0.33	< 0.33
Chromium	50	11	7	64%	0	0%	< 0.34	8
Copper	200	11	8	73%	0	0%	< 3.6	46.3
Lead	25	11	6	55%	1	9%	< 2.8	64.6
Mercury	0.7	11	4	36%	0	0%	< 0.03	0.08
Nickel	100	11	5	45%	0	0%	< 1.6	12.6
Selenium	10	11	1	9%	0	0%	< 3	3.1
Silver	50	11	2	18%	0	0%	< 1.6	2.1
Thallium	0.5	11	2	18%	2	18%	< 3.1	6.2
Zinc	2000	11	6	55%	0	0%	< 0.61	71.4

Sample Location Sampling Date Units	TOGS Class GA	Number of Samples	Number of Detections	Frequency of Detections	Number of TAGM Exceedances	Frequency of Exceedances	Minimum Reported Concentration	Maximum Reported Concentration
Cyanide	0.2	11	6	55%	1	9%	< 0.01	1.40
Amenable Cyanide	NA	11	1	9%	0	0%	< 0.01	0.14

Monitoring Well Construction Details and Groundwater Elevations
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-36

Monitoring Well Location	Ground Elevation (ft MSL)	Elevation of Top of Well (ft MSL)	Depth to Water (ftbtoc)	Groundwater Elevation (ft MSL)	Total Well Depth (ft bgs)	Riser Interval (ft MSL)			Screen Interval (ft MSL)			Sump Interval (ft MSL)		
MW-5A	13.84	13.40	12.77	0.63	19.0	13.40	to	4.40	4.40	to	-5.60	-	to	-
MW-5B	13.80	13.31	12.47	0.84	42.0	13.31	to	-18.69	-18.69	to	-28.69	-	to	-
MW-7A	9.11	8.42	7.45	0.97	16.5	8.42	to	2.42	2.42	to	-7.58	-7.58	to	-8.08
MW-12A	8.81	7.96	9.15	-1.19	17.0	7.96	to	0.96	0.96	to	-9.04	-	to	-
MW-12B	8.80	8.31	8.34	-0.03	49.0	8.31	to	-28.69	-28.69	to	-38.69	-38.69	to	-40.69
MW-24A	8.66	8.37	8.88	-0.51	16.0	8.37	to	2.37	2.37	to	-7.63	-	to	-
MW-24B	8.66	8.38	8.19	0.19	55.0	8.38	to	-36.62	-36.62	to	-46.62	-	to	-
MW-29A	10.77	9.91	10.53	-0.62	20.0	9.91	to	1.91	1.91	to	-8.09	-8.09	to	-10.09
MW-31A	6.48	5.95	8.96	-3.01	14.0	5.95	to	1.95	1.95	to	-8.05	-	to	-
MW-34A	5.83	5.13	3.33	1.80	12.5	5.13	to	3.13	3.13	to	-6.87	-6.87	to	-7.37
MW-40A	6.96	6.40	4.67	1.73	17.0	6.40	to	1.40	1.40	to	-8.60	-8.60	to	-10.60

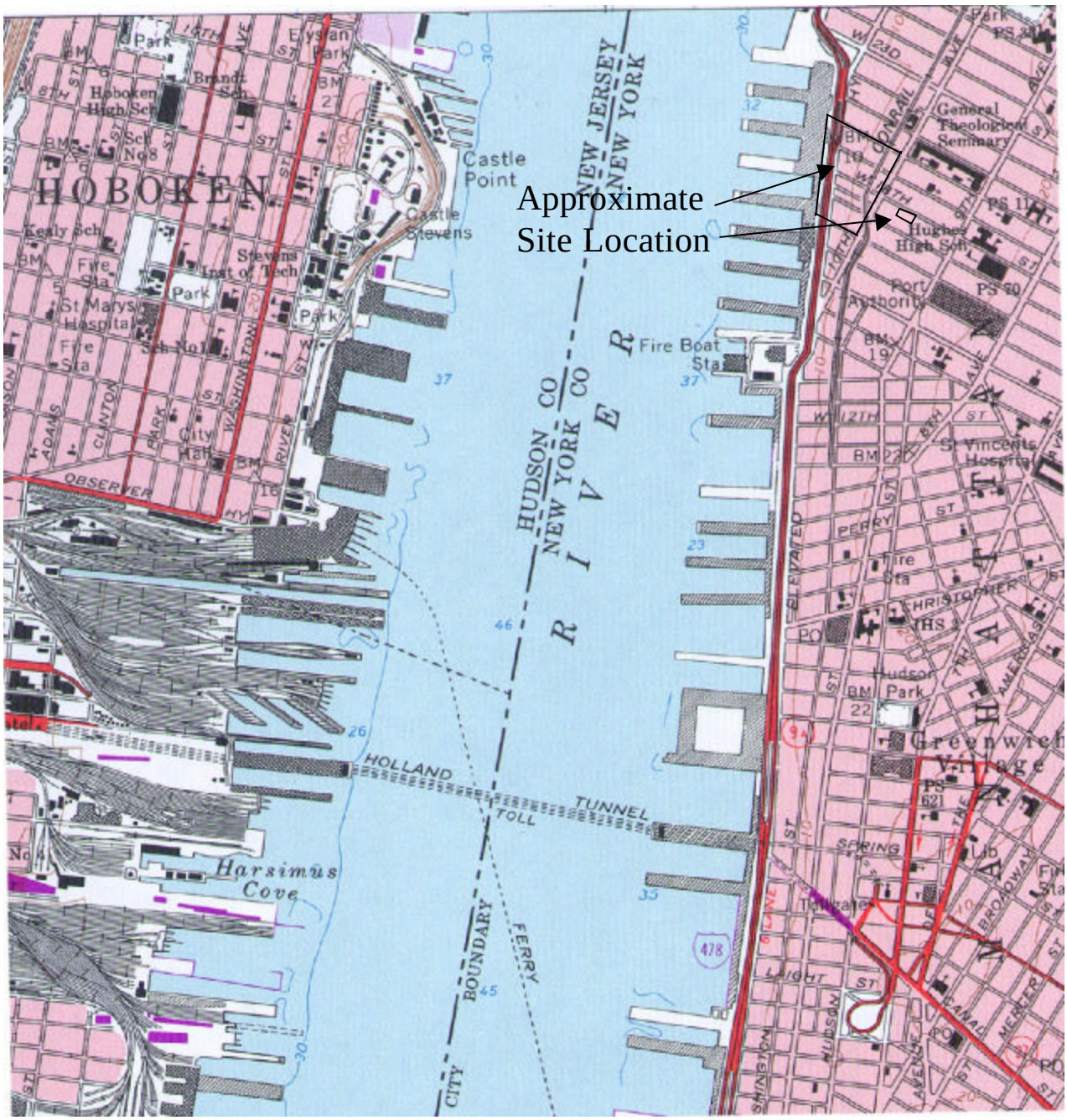
Note:
Groundwater elevations are based upon the synoptic water level measurements recorded on October 11, 2005 and survey information.
All monitoring wells were constructed with 2.0-inch I.D. PVC riser pipe and screen material with 0.020-inch screen size openings
ft MSL - Feet above or below Mean Sea Level
ftbtoc - Feet below the top of the well casing
ft bgs - Feet below ground surface

Monitoring Well Construction Details and Groundwater Elevations
Former West 18th Street Gas Works
Consolidated Edison Company of New York, Inc.
Table 4-36

Summary of Groundwater Field Parameters Recorded prior to the Collection of Groundwater Samples

Well	Date	Time	Gallons Purged	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	T (^{0}C)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)	PID (ppm)	Initial DTW (ft)	Final DTW (ft)
MW-5A	10/12/2005	1413	1.46	6.88	2.26	3.17	20.2	-195	48.8	699	12.77	12.76
MW-5B	10/12/2005	1448	5.38	7.43	34	0.8	17.5	-134	31	678	12.47	12.40
MW-7A	10/11/2005	1218	1.46	6.84	8.84	3.31	21.6	-148	22.5	2.8	7.45	8.78
MW-12A	10/11/2005	1016	3.25	7.13	2.21	3.61	18.4	-187	16.3	1.4	9.15	9.28
MW-12B	10/11/2005	1155	6.35	7.35	0.20	0.5	17.7	-68	320	2.5	8.34	10.01
MW-24A	10/12/2005	1156	3.32	6.80	11.9	2.85	19.9	-205	18.7	2.2	8.88	9.13
MW-29A	10/12/2005	0956	4.41	6.87	3.35	2.86	21.5	-148	17.5	0.6	10.53	10.58
MW-31A	10/11/2005	1524	2.57	6.90	12.2	3.08	22.1	-322	0	0.1	8.96	9.01
MW-34A	10//11/2005	1510	1.32	6.95	0.16	0.4	23.9	-173	41	13.8	3.33	4.66
MW-40A	10/11/2005	1715	2.47	7.00	2.2	5.1	22.5	155	4	0.3	4.67	5.13

mg/L	milligrams per liter
^{0}C	degrees Celsius
mV	millivolts
NTUs	nephlometirc turbidity units
ppm	parts per million
DTW	depth to water
ft	feet below grade



Source: U.S.G.S. 7.5-Minute Quadrangle, Jersey City, NJ (Photorevised 1981)

Approximate Scale: 1" = 1,680'

TRC
Customer-Focused Solutions

TRC Environmental, Inc.
1200 Wall Street West
Lyndhurst, NJ 07071
(201) 933-5541

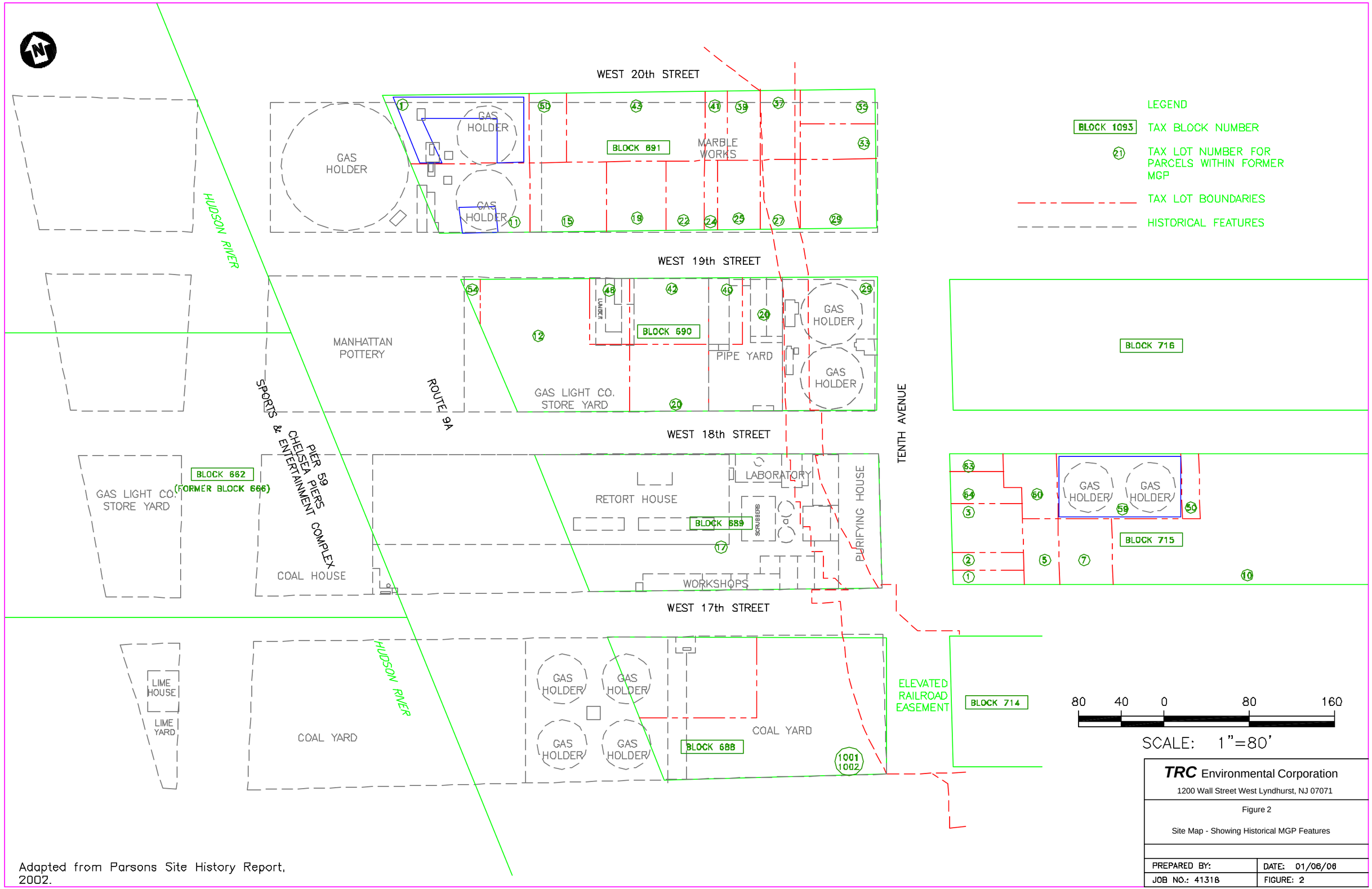
N

NEW YORK

QUADRANGLE LOCATION

Figure 1 – Site Location Map

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
New York, New York
Project No.: 41318-0700-20000



Adapted from Parsons Site History Report, 2002.

TRC Environmental Corporation
1200 Wall Street West Lyndhurst, NJ 07071

Figure 2

Site Map - Showing Historical MGP Features

PREPARED BY:	DATE: 01/06/08
JOB NO.: 41318	FIGURE: 2

WEST 20th STREET

WEST 19th STREET

WEST 18th STREET

WEST 17th STREET

TENTH AVENUE

ROUTE 9A

HUDSON RIVER

HUDSON RIVER

SPORTS & CHELSEA PIERS ENTERTAINMENT COMPLEX

PIER 59

BLOCK 662
(FORMER BLOCK 666)

BLOCK 691

COMMERCIAL/ RESIDENTIAL/ ARTIST GALLERIES

PUBLIC PARKING LOT

MENDON TRUCKING COMPANY

BLOCK 690

ARTIST GALLERIES COMMERCIAL OFFICES (DEMOLISHED)

2–3 STORY MENDON TRUCKING WAREHOUSE (DEMOLISHED)

"THE ROXY" NIGHT CLUB

MENDON TRUCKING COMPANY PARKING LOT

PUBLIC PARKING LOT

BLOCK 716

OPEN PARKING LOT

BLOCK 689

HIGHLINE ELEVATED RAIL TRACKS (DEFUNCT)

WAREHOUSE

BLOCK 715

MANHATTEN MINI–STORAGE

HIGH–RISE APARTMENTS & OFFICES

BLOCK 688

ELEVATED RAILROAD EASEMENT

BLOCK 714

LEGEND

BLOCK 1093 — TAX BLOCK NUMBER

21 — TAX LOT NUMBER FOR PARCELS WITHIN FORMER MGP

— TAX LOT BOUNDARIES

100 50 0 100 200

SCALE: 1"=100'

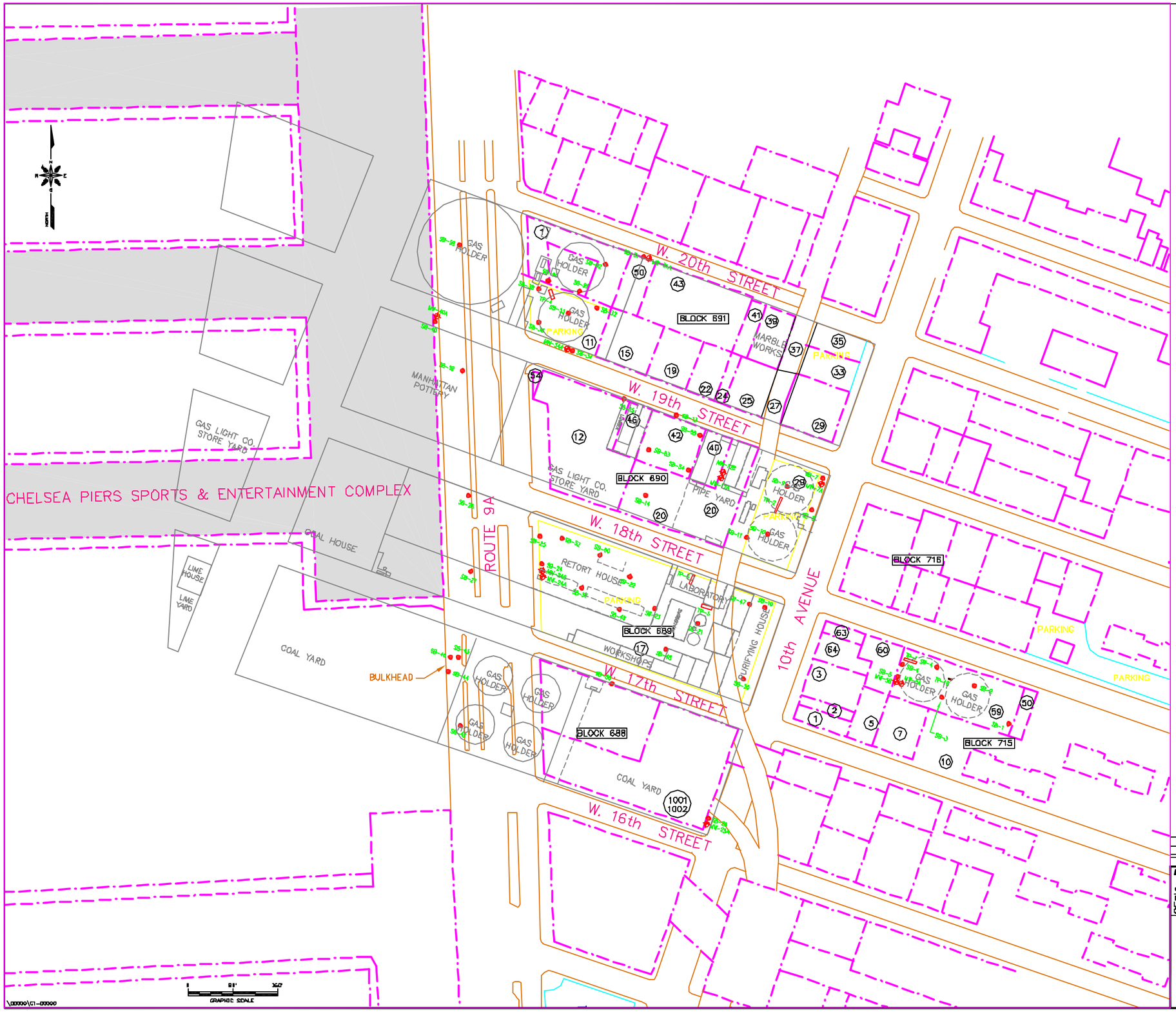
TRC Environmental Corporation

1200 Wall Street West Lyndhurst, NJ 07071

Figure 3
Site Map - Showing Current Layout and
Tax Block and Lot Numbers

PREPARED BY:	DATE: 01/06/06
JOB NO.: 41318	FIGURE: 3

No XREFs
P:\741280\CAD\18th st\18-G03.DWG



SYMBOL	REVISIONS	DATE	APPROVAL

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Lyndhurst, New Jersey 07071
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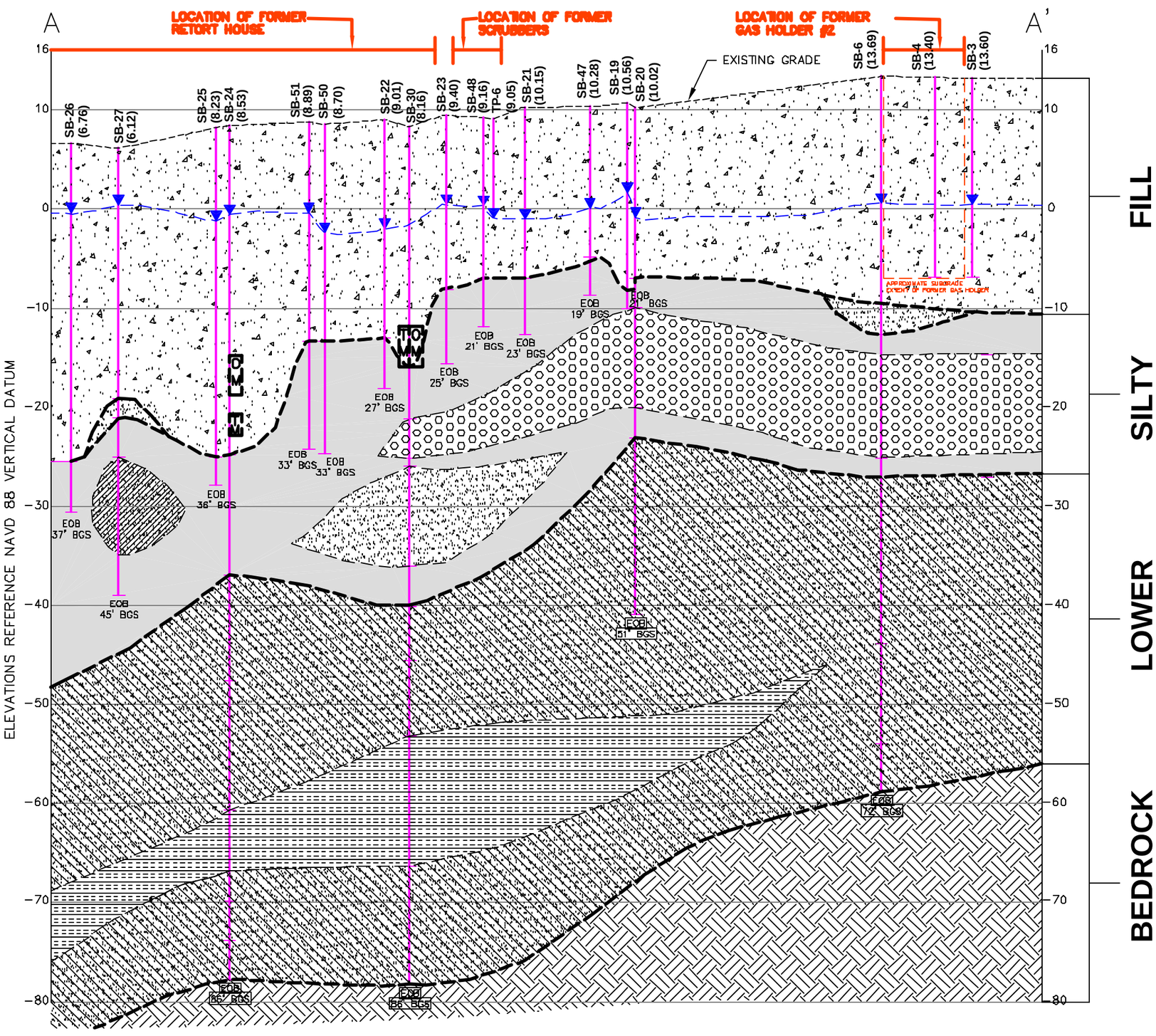
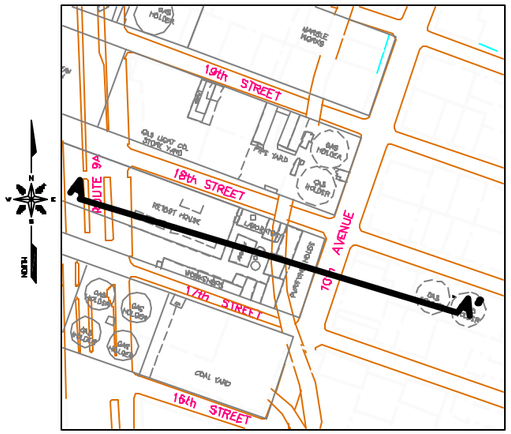
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 4

Site Characterization Study
Sample Location Map

DESIGN:		SHEET OF	
DRAWN:		SCALE: 1=50	
CHECKED:			





KEY MAP

LEGEND

- MAJOR STRATIGRAPHIC UNIT CONTACT
- MINOR STRATIGRAPHIC UNIT CONTACT
- SB-27 SOIL BORING ID
- (6.12) ELEVATION IN FEET ABOVE MEAN SEA LEVEL (NAVD 88 VERTICAL DATUM)
- WATER TABLE INFERRED FROM SOIL BORINGS
- OM OIL LIKE MATERIAL
- TM TAR LIKE MATERIAL
- EOB END OF BORING IN FEET BELOW GRADE SURFACE

PRIMARY STRATIGRAPHIC UNITS	MINOR STRATIGRAPHIC UNITS
FILL	WELL SORTED SAND
UPPER SAND*	POORLY SORTED SAND
SILTY CLAY	SILTY SAND
LOWER SAND	
BEDROCK	

* – Although upper sand is not seen as a primary unit in this transect, it was seen in other areas of the Site as such.

SYMBOL	REVISIONS	DATE	APPROVAL

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 4A

Cross Section of Subsurface Stratigraphy and Field Observations

DESIGN:		SHEET	OF
DRAWN:		SCALE:	As Indicated
CHECKED:			

\41318\0800\Figure 4A – CROSS SECTION

	TP-1B 1.0 - 1.5	TP-21B 1.0 - 1.5
Volatile Organic Compounds (ug/kg)		
Acetone	8.2 JB	81 BJ
Methylene Chloride	3.6 JB	2.2 J
2-Butanone	3.1 U	15 J
Methylcyclohexane	0.47 U	4.1 J
Toluene	0.45 U	5.7 J
Ethyl Benzene	0.39 U	4.4 J
m/p-Xylenes	0.96 U	67 J
o-Xylene	0.43 U	150 J
1,4-Dichlorobenzene	0.6 U	6 J
Total Confident Conc. VOC	11.8	335.4
Semivolatile Organic Compounds (ug/kg)		
Naphthalene	1400	1200
2-Methylnaphthalene	1700	1700
Phenanthrene	92 J	88 J
Pyrene	100 J	100 J
Butylbenzylphthalate	280 J	190 J
bis(2-Ethylhexyl)phthalate	410	280 J
Benzo(b)fluoranthene	84 J	84 J
Benzo(a)pyrene	79 J	74 J
Indeno(1,2,3-cd)pyrene	100 J	93 J
Benzo(g,h,i)perylene	130 J	110 J
Total Confident Conc. SVOC	4,375	3,919.0
Carcinogenic SVOCs in BaP Equivalents	97.4	91.7
Metals (mg/kg)		
Antimony	0.366 U	0.763 J
Arsenic	5.7	4.03
Beryllium	0.346 J	0.374 J
Cadmium	0.227 J	0.036 U
Chromium	13.5	15.4
Copper	26.1	24.6
Lead	834	773
Mercury	0.392 J	0.488 J
Nickel	8.78	8.9
Silver	0.323 J	0.087 U
Zinc	219	106
Cyanide (mg/kg)	2.18 J	1.77
Amenable Cyanide (mg/kg)	0.56	0.55

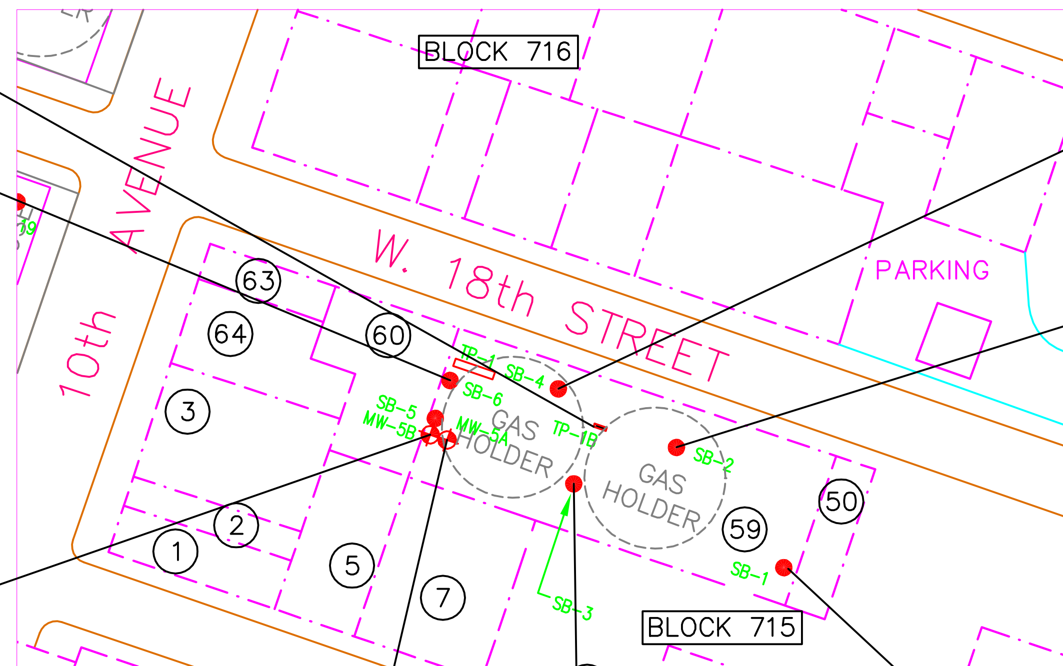
	SB-4 5.0 - 5.5	SB-4 7 - 9	SB-4 9 - 13	SB-4 17 - 19	SB-4 19 - 21
Volatile Organic Compounds (ug/kg)					
Acetone	8.1 JB	19 JB	28 JB	19 JB	520 U
Methylene Chloride	2.5 JB	2.4 JB	2.1 U	2.8 J	97 U
Cyclohexane	0.36 U	0.37 U	1.4 J	0.38 U	57 U
Methylcyclohexane	0.47 U	5.7	5 J	0.5 U	230 J
Benzene	0.44 U	0.45 U	2.4 J	0.47 U	19000
Toluene	0.45 U	0.46 U	0.47 U	0.48 U	29000
Ethyl Benzene	0.39 U	0.4 U	0.41 U	0.42 U	48000 D
m/p-Xylenes	0.96 U	0.98 U	1.4 J	1 U	56000
o-Xylene	0.43 U	0.43 U	0.45 U	0.46 U	22000
Isopropylbenzene	0.46 U	0.47 U	2.1 J	2.2 J	3000
Total Confident Conc. VOC	10.6	27.1	40.3	24.0	182,230
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	82 J	63 U	370 J	66 U	220000 D
2-Methylnaphthalene	61 U	61 U	99 J	64 U	60000 D
1,1-Biphenyl	60 U	61 U	63 U	63 U	8600
Acenaphthylene	59 U	60 U	62 U	62 U	9100
Acenaphthene	65 U	65 U	68 U	68 U	19000
Dibenzofuran	60 U	61 U	64 U	63 U	24000
Fluorene	62 U	62 U	65 U	65 U	35000 D
Phenanthrene	110 J	59 U	65 J	71 J	110000 D
Anthracene	55 U	55 U	58 U	58 U	32000 DJ
Carbazole	56 U	56 U	59 U	59 U	12000
Fluoranthene	85 J	55 U	57 U	83 J	50000 D
Pyrene	88 J	65 U	68 U	79 J	54000 D
Benzo(a)anthracene	51 U	51 U	54 U	59 J	23000
Chrysene	66 U	66 U	69 U	69 U	20000
bis(2-Ethylhexyl)phthalate	70 U	84 J	74 U	74 U	790 U
Benzo(b)fluoranthene	44 J	40 U	42 U	49 J	20000 J
Benzo(k)fluoranthene	80 U	81 U	85 U	84 U	6900 J
Benzo(a)pyrene	58 U	59 U	61 U	61 U	18000 J
Indeno(1,2,3-cd)pyrene	46 U	47 U	49 U	49 U	2400 J
Dibenz(a,h)anthracene	46 U	46 U	48 U	48 U	680 J
Benzo(g,h,i)perylene	60 U	61 U	64 U	63 U	3600 J
Total Confident Conc. SVOC	409	84	534	341	728,280
Carcinogenic SVOCs in BaP Equivalents	4.4	ND	ND	10.8	23,489
Metals (mg/kg)					
Antimony	0.485 J	0.363 U	0.382 U	0.557 J	0.411 U
Arsenic	2.12	0.458 J	2.01	2.07	1.16 J
Beryllium	0.388 J	0.29 J	0.363 J	0.725	0.289 J
Cadmium	0.036 U	0.307 J	0.038 U	0.038 U	0.309 J
Chromium	16.9	16.6 J	19.8 J	30.4 J	21.6 J
Copper	85.3	15.8	17.3	26.6	15.2
Lead	77.5	12.8 J	37.7	31.3	130 J
Mercury	0.454 J	0.359	0.499 J	0.365 J	0.272
Nickel	15.3	15.2	18.5	31.7	15.7
Silver	0.319 J	1.04 J	0.092 U	5.76	1.06 J
Zinc	75	35.6	44.8	106	68.1
Cyanide (mg/kg)	0.556 U	0.564 U	0.588 U	0.59 U	0.627 U
Amenable Cyanide (mg/kg)	0.56 UJ	0.56 U	0.59 U	0.59 U	5.6

	SB-6 10 - 12	SB-6 13 - 15	SB-6 19 - 21	SB-6 24 - 26	SB-66 24 - 26	SB-6 28.5 - 30.5
Volatile Organic Compounds (ug/kg)						
Acetone	7.9 JB	500 U	34 BJ	19 JB	19 JB	12 JB
Carbon Disulfide	0.41 U	59 U	7	0.45 U	0.45 U	0.44 U
Methyl tert-butyl Ether	0.41 U	54 U	23	0.45 U	0.45 U	0.44 U
Cyclohexane	0.36 U	55 U	5.7 J	0.39 U	0.39 U	0.38 U
Methylcyclohexane	0.47 U	20000	6 J	0.51 U	0.51 U	0.5 U
Benzene	0.45 U	36 U	87	0.49 U	0.48 U	0.47 U
Toluene	0.45 U	59000 DJ	5 J	3.6 J	1.7 J	2.1 J
Ethyl Benzene	0.4 U	70000 DJ	0.44 U	2.7 J	0.43 U	2.8 J
m/p-Xylenes	0.97 U	320000 DJ	2.1 J	13	4.4 J	15
o-Xylene	0.43 U	120000 DJ	0.47 U	4 J	1.2 J	5.1 J
Isopropylbenzene	0.47 U	7700	4.1 J	0.51 U	0.5 U	0.49 U
Total Confident Conc. VOC	7.9	596,700	173.9	39.3	26.3	37.0
Semivolatile Organic Compounds (ug/kg)						
Naphthalene	63 U	6600 D	69 U	68 U	68 U	56 U
2-Methylnaphthalene	62 U	3800 D	68 U	67 U	67 U	55 U
1,1-Biphenyl	61 U	150 J	67 U	66 U	66 U	54 U
Fluorene	62 U	110 J	68 U	67 U	68 U	55 U
Phenanthrene	59 U	120 J	65 U	63 U	64 U	52 U
bis(2-Ethylhexyl)phthalate	71 U	210 JB	160 J	170 J	140 JB	63 U
Total Confident Conc. SVOC	ND	10,990	160	170	140	ND
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND	ND	ND
Metals (mg/kg)						
Antimony	0.738 J	0.397 U	0.396 U	0.392 U	0.396 U	0.379 U
Arsenic	2.71	3.1	4.16	1.59	0.99 J	1.89
Beryllium	0.407 J	0.407 J	0.442 J	0.293 J	0.377 J	0.277 J
Cadmium	0.33 J	0.04 U	0.04 U	0.039 U	0.04 U	0.114 J
Chromium	14.9 J	19.2 J	16.5 J	9.91 J	12	11.6 J
Copper	17	18.4	21.1	8.74	11.6	11.6
Lead	27.2	24.1	8.19	2.21	4.8	3.87
Mercury	0.013 J	0.026 J	0.015 J	0.007 UJ	0.007 U	0.007 UJ
Nickel	15.8	15.7	14.1	10.4	12.5	11.8
Selenium	0.671 J	0.412 U	0.412 U	0.407 U	0.412 U	0.564 J
Silver	1.58	0.096 U	0.095 U	0.094 U	0.095 U	1.42
Zinc	37.1	49.7	43.9	19.1	25.2	20.9
Cyanide (mg/kg)	3.08 J	1.63	0.616	0.609 U	0.61 U	0.59 U
Amenable Cyanide (mg/kg)	1.4 J	0.6 U	0.62 U	0.61 U	0.61 U	0.59 U

	SB-2 1.0 - 1.5	SB-2 2.0 - 2.5	SB-2 5 - 7	SB-2 13 - 15	SB-2 19 - 20.5
Volatile Organic Compounds (ug/kg)					
Acetone	3.7 J	3.6 U	13 JB	15 JB	5400 U
Methyl tert-butyl Ether	0.39 U	0.4 U	0.46 U	5.1 J	580 U
Methylene Chloride	6.1	5.9 B	2.3 U	2.1 U	1000 U
Cyclohexane	0.35 U	0.35 U	0.4 U	0.37 U	1600 J
Methylcyclohexane	0.45 U	0.46 U	0.52 U	0.48 U	3500 J
Benzene	0.43 U	0.43 U	0.5 U	1.7 J	22000
1,2-Dichloropropane	0.43 U	43	0.5 U	0.45 U	510 U
Ethyl Benzene	0.38 U	0.38 U	0.44 U	0.4 U	35000
m/p-Xylenes	0.93 U	1.2 J	1.1 U	0.98 U	13000 J
o-Xylene	0.41 U	0.42 U	0.48 U	0.43 U	600 U
Styrene	0.49 U	0.5 U	0.57 U	0.52 U	560 U
Bromoform	0.33 U	0.34 U	0.39 U	0.35 U	410 U
Isopropylbenzene	0.45 U	0.45 U	0.52 U	0.47 U	28000
Total Confident Conc. VOC	9.8	50.1	13.0	21.8	103,100
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	110 J	61 U	70 U	64 U	11000 D
2-Methylnaphthalene	120 J	59 U	69 U	63 U	5300 D
1,1-Biphenyl	58 U	59 U	68 U	62 U	520
Acenaphthylene	57 U	58 U	67 U	61 U	250 J
Acenaphthene	76 J	63 U	73 U	67 U	870
Dibenzofuran	100 J	59 U	68 U	62 U	1200
Fluorene	64 J	60 U	69 U	63 U	1400
Phenanthrene	91 J	280 J	67 J	60 U	3800 JD
Anthracene	53 U	91 J	62 U	57 U	880
Carbazole	54 U	54 U	63 U	57 U	560
Fluoranthene	52 U	250 J	69 J	56 U	1700
Pyrene	62 U	380	74 J	66 U	1800
Butylbenzylphthalate	57 U	58 U	74 J	130 J	69 U
Benzo(a)anthracene	49 U	88 J	58 U	52 U	770
Chrysene	63 U	110 J	74 U	67 U	660
bis(2-Ethylhexyl)phthalate	68 U	68 U	150 J	140 J	82 U
Benzo(b)fluoranthene	65 J	180 J	45 U	41 U	460
Benzo(k)fluoranthene	78 UJ	82 J	91 U	82 U	170 J
Benzo(a)pyrene	62 J	110 J	66 U	60 U	480
Indeno(1,2,3-cd)pyrene	45 U	45 U	52 U	48 U	190 J
Benzo(g,h,i)perylene	58 UJ	59 U	68 U	62 U	170 J
Total Confident Conc. SVOC	688	1,571	434	270	32,180
Carcinogenic SVOCs in BaP Equivalents	68.5	138.7	ND	ND	630.3
Metals (mg/kg)					
Antimony	0.35 U	0.804 J	0.412 U	0.373 U	0.581 J
Arsenic	4.21	0.776 J	2.7	2.13	7.8
Beryllium	0.344 J	0.274 J	0.674	0.454 J	0.265 J
Chromium	16.4 J	12.5 J	32.4 J	18.3 J	16.2 J
Copper	16.5	12.7	39.9	20.3	21.3
Lead	37.1 J	24.5 J	48.8	27.5	2240
Mercury	0.103	0.175	0.342 J	0.605 J	0.41 J
Nickel	18	14.5	18.3	17.1	9.29
Selenium	0.364 U	0.367 U	0.428 U	0.388 U	0.909 J
Silver	0.333 J	0.085 U	4.39	0.09 U	1.8
Zinc	37.2	26.1	65.1	55.6	250
Cyanide (mg/kg)	0.539 U	0.543 U	0.628 U	0.569 U	190
Amenable Cyanide (mg/kg)	0.539 U	0.543 U	0.63 U	0.57 U	0.65 U

	TAGM RSCO
Volatile Organic Compounds (ug/kg)	
Dichlorodifluoromethane	NC
Chloromethane	NC
Vinyl Chloride	200
Bromomethane	NC
Chloroethane	1900
Trichlorofluoromethane	NC
1,1,2-Trichlorotrifluoroethane	6000
1,1-Dichloroethene	400
Acetone	200
Carbon Disulfide	2700
Methyl tert-butyl Ether	120
Methyl Acetate	NC
Methylene Chloride	100
trans-1,2-Dichloroethene	300
1,1-Dichloroethane	200
Cyclohexane	NC
2-Butanone	300
Carbon Tetrachloride	600
cis-1,2-Dichloroethene	NC
Chloroform	300
1,1,1-Trichloroethane	800
Methylcyclohexane	NC
Benzene	60
1,2-Dichloroethane	200
Trichloroethene	700
1,2-Dichloropropane	NC
Bromodichloromethane	NC
4-Methyl-2-Pentanone	1000
Toluene	1500
t-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
1,1,2-Trichloroethane	NC
2-Hexanone	NC
Dibromochloromethane	NA
1,2-Dibromoethane	NC
Tetrachloroethene	1400
Chlorobenzene	1700
Ethyl Benzene	5500
m/p-Xylenes	1200
o-Xylene	600
Styrene	NC
Bromoform	NC
Isopropylbenzene	2300
1,1,2,2-Tetrachloroethane	600
1,3-Dichlorobenzene	1600
1,4-Dichlorobenzene	8500
1,2-Dichlorobenzene	7900
1,2-Dibromo-3-Chloropropane	NC
1,2,4-Trichlorobenzene	3400
Total Confident Conc. VOC	10000
Metals (mg/kg)	
Arsenic	12
Barium	600
Cadmium	1
Chromium	40
Lead	500
Mercury	0.1
Selenium	3.9
Silver	SB
PCBs (ug/kg)	1,000 (surface)/ 10,000 (subsurface)
Cyanide (mg/kg)	NC

	TAGM RSCO
Semivolatile Organic Compounds (ug/kg)	
Benzaldehyde	NC
Phenol	30 or MDL
bis(2-Chloroethyl)ether	NC
2-Chlorophenol	800
2-Methylphenol	100 or MDL
2,2-oxybis(1-Chloropropane)	NC
Acetophenone	NC
3+4-Methylphenols	900
N-Nitroso-di-n-propylamine	NC
Hexachloroethane	NC
Nitrobenzene	200 or MDL
Isophorone	4,400
2-Nitrophenol	330 or MDL
2,4-Dimethylphenol	NC
bis(2-Chloroethoxy)methane	NC
2,4-Dichlorophenol	400
Naphthalene	13,000
4-Chloroaniline	220 or MDL
Hexachlorobutadiene	NC
Caprolatam	NC
4-Chloro-3-methylphenol	240 or MDL
2-Methylnaphthalene	36,400
Hexachlorocyclopentadiene	NC
2,4,6-Trichlorophenol	NC
2,4,5-Trichlorophenol	100
1,1-Biphenyl	NC
2-Chloronaphthalene	NC
2-Nitroaniline	430 or MDL
Dimethylphthalate	2,000
Acenaphthylene	41,000
2,6-Dinitrotoluene	1,000
3-Nitroaniline	500 or MDL
Acenaphthene	50,000
2,4-Dinitrophenol	200 or MDL
4-Nitrophenol	100 or MDL
Dibenzofuran	6,200
2,4-Dinitrotoluene	1,000
Diethylphthalate	7,100
4-Chlorophenyl-phenylether	NC
Fluorene	50,000
4-Nitroaniline	NC
4,6-Dinitro-2-methylphenol	NC
N-Nitrosodiphenylamine	NC
4-Bromophenyl-phenylether	NC
Hexachlorobenzene	410
Atrazine	NC
Pentachlorophenol	1000 or MDL
Phenanthrene	50,000
Anthracene	50,000
Carbazole	NC
Di-n-butylphthalate	8,100
Fluoranthene	50,000
Pyrene	50,000
Butylbenzylphthalate	50,000
3,3-Dichlorobenzidine	NA
Benzo(a)anthracene	224 or MDL
Chrysene	400
bis(2-Ethylhexyl)phthalate	50,000
Di-n-octyl phthalate	50,000
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,100
Benzo(a)pyrene	61 or MDL
Indeno(1,2,3-cd)pyrene	3,200
Dibenz(a,h)anthracene	14 or MDL
Benzo(g,h,i)perylene	50,000
Total Confident Conc. SVOC	500,000



	SB-5A 17 - 19	SB-5A 19 - 20	SB-85A 19 - 20	SB-5A 26 - 28	SB-5A 31 - 33	MW-5B 34 - 36	MW-55B 34 - 36
Volatile Organic Compounds (ug/kg)							
Acetone	20 U	3.8 U	3.9 U	16 JB	17 JB	16 J	4.1 U
Methyl tert-butyl Ether	2.2 U	2.7 J	2.6 J	0.44 U	0.43 U	0.46 U	0.45 U
Methylene Chloride	37	6.9	5.3 JB	2.2 U	3.7 JB	2.3 U	5.1 JB
Methylcyclohexane	100	0.48 U	0.49 U	0.51 U	0.49 U	0.53 U	0.51 U
Benzene	14 J	0.45 U	0.47 U	0.48 U	0.47 U	0.5 U	0.49 U
Tetrachloroethene	4.4 U	0.83 U	0.86 U	0.88 U	0.85 U	2.6 J	1.5 J
Ethyl Benzene	60	0.4 U	0.42 U	0.43 U	0.41 U	3 J	2.6 J
m/p-Xylenes	250	3.9 J	1 U	1 U	1 U	1.4 J	1.1 U
o-Xylene	8.7 J	0.44 U	0.45 U	0.46 U	0.45 U	4.4 J	4.2 J
Total Confident Conc. VOC	469.7	13.5	7.9	16.0	20.7	27.4	13.4
Semivolatile Organic Compounds (ug/kg)							
Naphthalene	190 J	65 U	66 U	67 U	65 U	71 U	68 U
2-Methylnaphthalene	86 J	63 U	64 U	66 U	64 U	69 U	67 U
Di-n-butylphthalate	60 U	58 U	59 U	60 U	70 J	63 U	61 U
bis(2-Ethylhexyl)phthalate	75 U	73 U	74 U	76 U	88 J	79 U	77 U
Total Confident Conc. SVOC	276	ND	ND	ND	158	ND	ND
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND	ND	ND	ND
Metals (mg/kg)							
Antimony	1.17 J	0.379 U	0.388 U	0.81 J	0.382 U	0.417 U	0.398 U
Arsenic	0.6 J	1.52	1.57	1.1 J	0.457 U	0.499 U	0.476 U
Beryllium	0.144 J	0.663	0.811	0.381 J	0.217 J	0.254 J	0.243 J
Cadmium	0.039 U	0.038 U	0.039 U	0.039 U	0.22 J	0.042 U	0.04 U
Chromium	9.35 J	25.7 J	31.1 J	18.6	18	6.74	6.44
Copper	7.26	19.1	24.2	14.4	11	14.5	11.8
Lead	2.94 J	6.95 J	9.66 J	4.08	2.35	2.29	1.82
Mercury	0.007 U	0.009 J	0.014	0.009 J	0.036	0.023 J	0.038 J
Nickel	6.34	17.9	24.7	10.3	10.1	9.8	8.14
Silver	0.094 U	3.15 J	1.3 J	0.093 U	0.092 U	0.254 J	0.243 J
Zinc	13.6	39.7	55.4	30.2	18.2	19.1	13.7
Cyanide (mg/kg)	0.604 U	0.577 U	0.591 U	0.6 U	0.583 U	0.636 U	0.613 U
Amenable Cyanide (mg/kg)	0.604 U	0.577 U	0.591 U	0.6 UJ	0.58 UJ	0.64 U	0.61 U

	SB-5B 10 - 11	SB-5B 11 - 12	SB-5B 21 - 22
Volatile Organic Compounds (ug/kg)			
Methylene Chloride	2 U	67 U	6.7
Methylcyclohexane	0.45 U	2800	0.51 U
Benzene	0.43 U	26 U	2 J
4-Methyl-2-Pentanone	2.1 U	140 U	2.6 J
Toluene	0.43 U	42 U	3 J
Ethyl Benzene	0.38 U	18000	5.5 J
m/p-Xylenes	0.93 U	74000 D	22
o-Xylene	0.41 U	18000	5.3 J
Isopropylbenzene	0.45 U	4000	0.5 U
1,4-Dichlorobenzene	0.58 U	42 U	1.8 J
Total Confident Conc. VOC	ND	110,800	48.9
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	73 J	6900 DJ	68 U
2-Methylnaphthalene	79 J	4700 D	67 U
Fluorene	60 U	79 J	67 U
Phenanthrene	56 U	100 J	63 U
bis(2-Ethylhexyl)phthalate	68 U	92 J	76 U
Total Confident Conc. SVOC	152	11,871	ND
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND
Metals (mg/kg)			
Antimony	0.691 J	0.352 U	0.386 U
Arsenic	1.29	0.903 J	2.55
Beryllium	0.337 J	0.314 J	0.438 J
Chromium	14.7 J	18.2 J	15.9 J
Copper	26.8	27.7	17.4
Lead	10 J	7.18 J	6.34 J
Mercury	0.01 J	0.009 J	0.012
Nickel	14.1	17.2	16.5
Selenium	0.365 U	0.431 J	0.401 U
Silver	0.085 U	0.227 J	0.317 J
Zinc	32.2 J	30	30.2
Cyanide (mg/kg)	2.89	1.07	0.66
Amenable Cyanide (mg/kg)	1.8	0.537 U	0.6 U

	SB-3 3.0 - 3.5	SB-3 5 - 7	SB-3 13 - 15	SB-3 17 - 19
Volatile Organic Compounds (ug/kg)				
Acetone	12 J	7 JB	480 U	13 JB
Methyl tert-butyl Ether	0.4 UR	0.41 U	52 U	2.1 J
Methylcyclohexane	0.45 UR	0.47 U	1300	0.49 U
Total Confident Conc. VOC	12	7	1,300	15.1
Semivolatile Organic Compounds (ug/kg)				
Butylbenzylphthalate	58 UR	59 U	61 UR	88 J
bis(2-Ethylhexyl)phthalate	69 UR	270 J	72 U	160 J
Total Confident Conc. SVOC	ND	270	83	248
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND
Metals (mg/kg)				
Arsenic	2.47	3.25	2.1	1.49
Beryllium	0.46 J	0.52 J	0.477 J	0.408 J
Chromium	16.2 J	24.3 J	17.7 J	15 J
Copper	13.3	26.9	25	25.9
Lead	65.1 J	42.1	5.98	4.68
Mercury	0.058 J	0.021 J	0.009 J	0.007 U
Nickel	14.1	22.5	19.5	17.5
Selenium	0.456 J	0.375 U	0.386 U	0.397 U
Silver	0.274 J	0.087 U	0.089 U	0.092 U
Zinc	46.6	37.4	39.9	32.7
Cyanide (mg/kg)	0.545 UR	0.556 U	0.577 U	0.581 U
Amenable Cyanide (mg/kg)	0.545 UR	0.56 U	0.58 U	0.58 U

	SB-1 5.0 - 5.5
Volatile Organic Compounds (ug/kg)	
Acetone	6 JB
Total Confident Conc. VOC	6.0
Semivolatile Organic Compounds (ug/kg)	
Total Confident Conc. SVOC	ND
Carcinogenic SVOCs in BaP Equivalents	ND
Metals (mg/kg)	
Arsenic	0.745 J
Beryllium	0.176 J
Chromium	6.64 J
Copper	9.84
Lead	1.67
Nickel	7.18
Selenium	0.512 J
Silver	0.267 J
Zinc	13.4
Cyanide (mg/kg)	0.508 U
Amenable Cyanide (mg/kg)	0.51 UJ

NORTH

0 50 100
GRAPHIC SCALE

SOIL BORING LOCATION

SB-6 = SOIL BORING NUMBER
(19-21) = SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW-5A)

HISTORIC FEATURES

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer-Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-5541

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 5

Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 1

DESIGN:
DRAWN:
CHECKED:
SHEET OF
SCALE: 1" = 50'

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	SB-18 7.3 - 7.9	SB-18 28.5 - 29	SB-18 42.5 - 43
Volatile Organic Compounds (ug/kg)			
Acetone	9 U	25 J	67
Carbon Disulfide	0.12 U	0.12 U	24 J
Methylene Chloride	3.2 J	8 J	18 J
Cyclohexane	0.37 U	4.4 J	0.47 U
Methylcyclohexane	0.43 U	9	0.55 U
Benzene	0.24 U	170	6.6 J
Toluene	0.31 U	250 D	2.5 J
Tetrachloroethene	0.77 U	6.5	3.5 J
Ethyl Benzene	0.3 U	460 D	4.5 J
m/p-Xylenes	0.62 U	580 D	3.4 J
o-Xylene	0.52 U	330 D	4.2 J
Styrene	0.38 U	9.9	0.48 U
Isopropylbenzene	0.45 U	220	0.57 U
Total Confident Conc. VOC	3.2	782.8	133.7
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	8.6 U	3300 J	11 U
2-Methylnaphthalene	6.8 U	1600 J	8.6 U
1,1-Biphenyl	12 U	420 J	15 U
Acenaphthylene	12 U	1400 J	15 U
Acenaphthene	8.7 U	1800 J	11 U
4-Nitrophenol	39 U	1300 J	49 U
Dibenzofuran	13 U	1400 J	17 U
Fluorene	11 U	2900 J	14 U
Phenanthrene	310 J	7800	62 J
Anthracene	96 J	2500 J	12 U
Carbazole	8.7 U	590 J	11 U
Fluoranthene	390 J	5100	7 U
Pyrene	430	5600	8.9 U
Benzo(a)anthracene	210 J	3100 J	7.6 U
Chrysene	190 J	2400 J	16 U
bis(2-Ethylhexyl)phthalate	72 J	90 U	120 J
Benzo(b)fluoranthene	190 J	2200 J	27 U
Benzo(k)fluoranthene	110 J	1200 J	17 U
Benzo(a)pyrene	110 J	2000 J	8.6 U
Indeno(1,2,3-cd)pyrene	89 J	560 J	12 U
Benzo(g,h,i)perylene	81 J	630 J	22 U
Total Confident Conc. SVOC	2,278	47,800	182
Carcinogenic SVOCs in BaP Equivalents	173.9	2,622	ND
Metals (mg/kg)			
Arsenic	2.97	3.86	9.53
Beryllium	0.282 J	0.349 J	0.709 J
Cadmium	0.43 J	0.912	2.12
Chromium	13.3	9.27	21.7
Copper	19.2	104	14.8
Lead	39.4	211	15
Mercury	0.18	0.45	0.02
Nickel	9.14	10.6	22.2
Selenium	0.784 J	1.15 J	1.99
Silver	0.125 U	0.257 J	0.553 J
Zinc	43.9	105	65.8
Cyanide (mg/kg)	0.6 U	0.6 U	0.77 U
Amenable Cyanide (mg/kg)	0.6 U	0.6 U	0.77 U

	SB-15 4 - 5	SB-15 5 - 6	SB-15 7 - 9	SB-15 11 - 13	SB-15 17 - 19	SB-15 23 - 25
Volatile Organic Compounds (ug/kg)						
Acetone	8.6 U	8.5 U	88 U	60 J	88 R	120 R
Carbon Disulfide	0.12 U	0.11 U	1.2 U	3.2 J	1.2 R	42 J
Methylene Chloride	0.78 U	0.77 U	35 J	2.7 J	8 R	47 J
Cyclohexane	0.35 U	0.35 U	100 J	0.35 U	83 R	4.9 U
Methylcyclohexane	0.41 U	28000 DJ	380 J	46 J	220 R	5.7 U
Benzene	0.23 U	0.23 U	2.4 U	0.23 U	31000 R	790
Toluene	0.3 U	0.29 U	3 U	0.3 U	99000 R	4.2 U
Chlorobenzene	0.4 U	0.4 R	4.1 U	0.41 U	34 R	5.7 U
Ethyl Benzene	0.29 U	0.28 R	2.9 U	0.29 U	66000 R	460
m/p-Xylenes	0.59 U	0.58 R	6 U	0.6 U	120000 R	720
o-Xylene	0.5 U	0.49 R	5.1 U	0.5 U	41000 R	380
Isopropylbenzene	0.43 U	0.42 UJ	4.4 U	4.3 J	3100 R	6 U
Total Confident Conc. VOC	ND	28,000	515	116.2	360,480	2,439
Semivolatile Organic Compounds (ug/kg)						
2,4-Dimethylphenol	20 U	20 U	21 U	21 U	44000	340 J
Naphthalene	8.2 U	8.1 U	250 J	180 J	4700000 J	32000 D
2-Methylnaphthalene	6.5 U	490	160 J	6.5 U	1700000 J	13000 D
Acenaphthylene	11 U	11 U	12 U	11 U	530000 J	3300
Acenaphthene	8.3 U	8.2 U	180 J	94 J	240000 J	2900
4-Nitrophenol	37 U	36 U	38 U	37 U	33000 J	50 U
Dibenzofuran	12 U	12 U	13 U	100 J	420000 J	3300
Fluorene	11 U	11 U	56 J	160 J	830000 J	6900 D
Phenanthrene	8.4 U	98 J	130 J	320 J	1300000 DJ	11000 DJ
Anthracene	9 U	8.9 U	64 J	9.1 U	610000 J	5000 D
Carbazole	8.3 U	8.2 U	8.5 U	200 J	190000 J	2100
Fluoranthene	5.2 U	82 J	260 J	5.3 U	750000 J	6400 D
Pyrene	6.7 U	100 J	350 J	6.8 U	830000 J	7600 D
Benzo(a)anthracene	5.7 U	50 J	210 J	5.7 U	410000 J	3600
Chrysene	12 U	53 J	200 J	12 U	360000 J	3000
bis(2-Ethylhexyl)phthalate	8.6 U	57 J	180 J	100 J	890 U	62 J
Benzo(b)fluoranthene	44 J	20 U	220 J	20 U	290000 J	2300
Benzo(k)fluoranthene	13 U	51 J	120 J	13 U	98000 J	1100 J
Benzo(a)pyrene	42 J	50 J	190 J	6.5 U	270000 J	2300
Indeno(1,2,3-cd)pyrene	9.1 U	9 U	63 J	9.2 U	60000 J	550
Dibenz(a,h)anthracene	11 U	11 U	11 U	11 U	17000 J	160 J
Benzo(g,h,i)perylene	16 U	16 U	73 J	17 U	67000 J	620
Total Confident Conc. SVOC	86	1,031	2,706	1,154	13,749,000	75,532
Carcinogenic SVOCs in BaP Equivalents	46.4	56	242.5	ND	367,580	3,146
Metals (mg/kg)						
Arsenic	1.33	1.15	1.82	1.04 J	1.33	5.14
Beryllium	0.446 J	0.501 J	0.357 J	0.595	0.326 J	0.577 J
Cadmium	0.053 U	0.052 U	0.054 U	0.053 U	0.054 U	0.204 J
Chromium	12.8	16.3	10.8	14	9.47	17.9
Copper	20.9	22.3	37.3	21	8.46	12.5
Lead	45.1 J	40	146	17.8	47.6	11.4
Mercury	0.07 J	0.08 J	0.13 J	0.03 J	0.01 J	0.03 J
Nickel	19.1	13.9	11.4	15.6	12.3	17.7
Selenium	1.19	1.14	1.43	0.666 J	0.921 J	1.26 J
Silver	0.121 U	0.119 U	0.124 U	0.122 U	0.123 U	0.234 J
Zinc	25.1	30.4	29	39.4	21.4	50.1
Cyanide (mg/kg)	0.58 U	0.57 U	0.59 U	0.58 U	0.59 U	0.8 U
Amenable Cyanide (mg/kg)	0.58 U	0.57 U	0.59 U	0.58 U	0.59 U	0.8 U

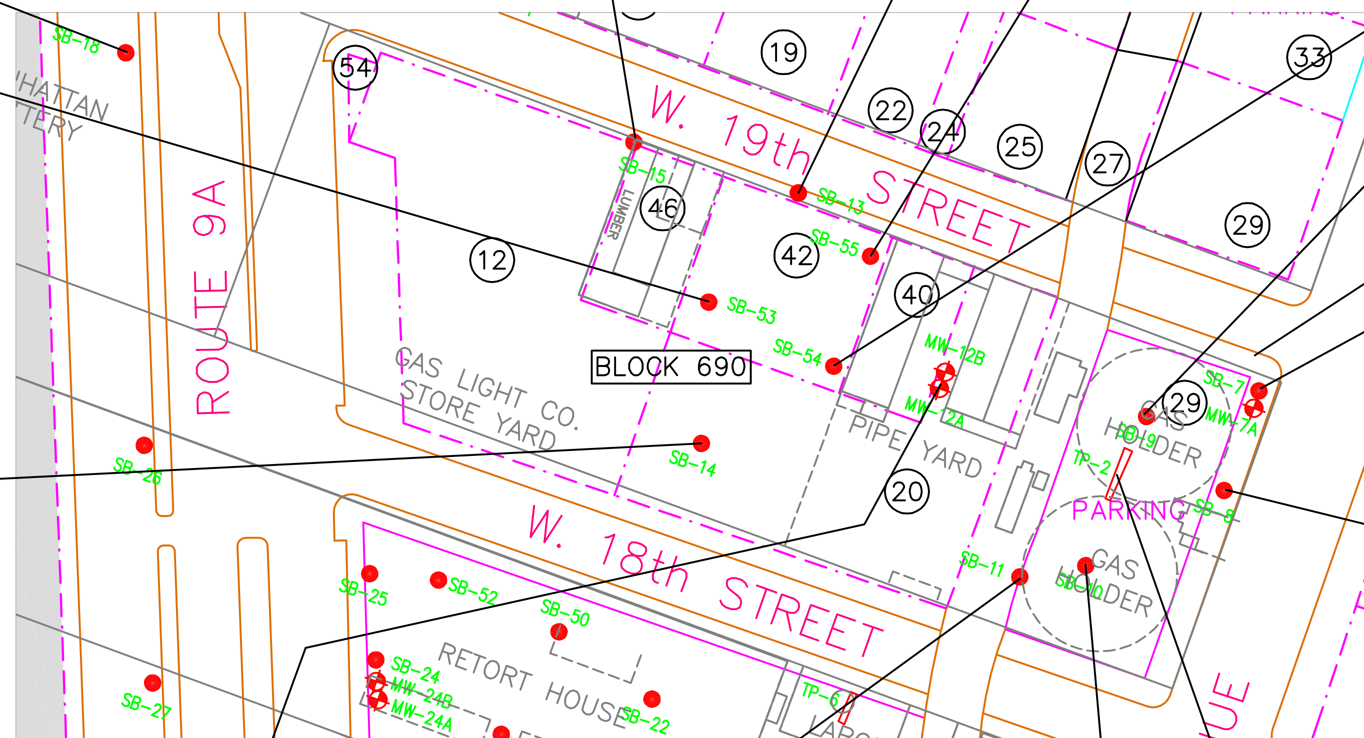
	SB-13 6 - 6.5	SB-13 25 - 27	SB-13A 25 - 27	SB-13 27 - 29
Volatile Organic Compounds (ug/kg)				
Acetone	8.5 U	35 BJ	44 BJ	140 BJ
Carbon Disulfide	1.3 J	4.7 J	0.12 U	7.4 J
Methylene Chloride	0.77 U	3.9 J	1.5 J	22 J
Chloroform	0.27 U	0.28 U	2.5 J	0.33 U
Methylcyclohexane	0.4 U	0.42 U	1.6 J	0.5 U
Benzene	0.23 U	0.24 U	3.8 J	8.8
Toluene	0.29 U	0.31 U	0.31 U	1.9 J
m/p-Xylenes	0.58 U	0.61 U	0.62 U	5 J
o-Xylene	4.4 J	0.51 U	0.52 U	15
Total Confident Conc. VOC	5.7	43.6	53.4	200.1
Semivolatile Organic Compounds (ug/kg)				
bis(2-Ethylhexyl)phthalate	48 J	89 J	45 J	68 J
Total Confident Conc. SVOC	48	89	45	68
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND
Metals (mg/kg)				
Arsenic	2.85	2.04	1.87	11.4
Beryllium	0.505 J	0.477 J	0.394 J	0.606 J
Cadmium	1.01	0.053 U	0.055 U	0.065 U
Chromium	13.6	16.4	15.4	22.6
Copper	22.5	21.8	22.4	15.3
Lead	12.9	5.65	13.9	9.7
Mercury	0.02	0.019 R	0.023 R	0.008 R
Nickel	14.9	14.8	15.2	21.7
Selenium	1.01 J	0.364 U	0.375 U	1.22 J
Silver	0.48 J	0.122 U	0.126 U	0.281 J
Zinc	43.4	25	29.1	57.8
Cyanide (mg/kg)	0.59 U	0.59 U	0.61 U	0.71 U
Amenable Cyanide (mg/kg)	0.59 U	0.59 U	0.61 U	0.71 U

	SB-55 2 - 3	SB-56 2 - 3	SB-55 5 - 6	SB-55 8 - 9	SB-55 19 - 20
Volatile Organic Compounds (ug/kg)					
Acetone	20 J	11 JB	7.9 U	13 J	30 J
Methylene Chloride	5.6 J	11 J	3.1 J	1.8 J	3.2 J
Benzene	0.24 U	1.3 J	0.21 U	0.23 U	1.4 J
Toluene	8.4	10	0.28 U	0.29 U	0.32 U
Ethyl Benzene	2.7 J	3 J	1.3 J	0.28 U	0.3 U
m/p-Xylenes	2.7 J	3 J	1.3 J	0.28 U	0.3 U
o-Xylene	4.6 J	5.8 J	2.3 J	0.49 U	0.53 U
Isopropylbenzene	7.3	0.46 U	0.39 U	0.42 U	0.45 U
Total Confident Conc. VOC	61.6	56.1	10.1	14.8	34.6
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	4300	23000	470	8 U	8.7 U
2-Methylnaphthalene	3700	19000	300 J	6.3 U	6.9 U
1,1-Biphenyl	520 J	2600 J	48 J	11 U	12 U
Acenaphthene	4100	18000	260 J	8.1 U	8.8 U
Dibenzofuran	2700	12000	190 J	12 U	13 U
Fluorene	3600	17000	260 J	10 U	11 U
Phenanthrene	32000 D	110000 D	2000	63 J	8.9 U
Anthracene	9600	30000	390	8.8 U	9.5 U
Carbazole	3800	11000	180 J	8.1 U	8.8 U
Fluoranthene	33000 D	86000 D	1500	52 J	5.5 U
Pyrene	25000 D	72000 D	1300	52 J	7.1 U
Benzo(a)anthracene	13000 D	30000	610	5.6 U	6 U
Chrysene	12000	26000	440	12 U	13 U
bis(2-Ethylhexyl)phthalate	210 J	92 U	160 J	280 J	180 J
Benzo(b)fluoranthene	14000 DL	29000 DJ	550 J	20 U	21 U
Benzo(k)fluoranthene	4900	12000	200 J	13 U	14 U
Benzo(a)pyrene	11000 D	30000	460	6.3 U	6.9 U
Indeno(1,2,3-cd)pyrene	3000 J	5600 J	250 J	8.9 U	9.6 U
Dibenz(a,h)anthracene	510 J	1100 J	46 J	11 U	12 U
Benzo(g,h,i)perylene	3800	7800	330 J	16 U	17 U
Total Confident Conc. SVOC	184,780	542,100	9,944	447	180
Carcinogenic SVOCs in BaP Equivalents	14,679	37,940	653.4	ND	ND
Metals (mg/kg)					
Antimony	5.62 J	3.33 J	0.6 U	0.626 U	0.683 U
Arsenic	25.3	29.5	6.27	1.18	1.36
Beryllium	0.291 J	0.25 J	0.262 J	0.344 J	0.357 J
Cadmium	0.246 J	0.057 U	0.049 U	0.051 U	0.056 U
Chromium	14.5	13.9	13.7	11.1	14
Copper	94.5	99.6	25.5	12.2	15.4
Lead	486	869	21.8	3.11	21
Mercury	0.807	1.1	0.035	0.007 U	0.029
Nickel	20.9	13.3	9.96	10.7	12.8
Selenium	1.12 J	2.07	0.334 U	0.348 U	0.38 U
Silver	4.11	0.129 U	0.112 U	0.117 U	1.56
Thallium	0.382 UJ	0.43 J	0.352 UJ	1.62 J	1.28 J
Zinc	308	424	61.7	39.9	36.7
Cyanide (mg/kg)	22	28	1.12	0.561 U	0.613 U
Amenable Cyanide (mg/kg)	6.9	0.62 U	0.53 U	0.56 U	0.61 U

	SB-54 3 - 4	SB-54 5 - 6	SB-54 9 - 10	SB-54 19 - 21
Volatile Organic Compounds (ug/kg)				
Acetone	17 J	34	14 J	18 J
Methylene Chloride	2.8 J	3.2 J	2.4 J	1.8 J
Toluene	7.6	2.2 J	0.3 U	0.29 U
Tetrachloroethene	5.2 J	1.4 J	0.73 U	0.72 U
Ethyl Benzene	2 J	4.4 J	0.29 U	0.28 U
m/p-Xylenes	2 J	4.4 J	0.29 U	0.28 U
o-Xylene	3.8 J	7.9	0.5 U	0.49 U
Isopropylbenzene	0.45 U	2.3 J	0.43 U	0.42 U
Total Confident Conc. VOC	47.5	67.4	16.4	19.8
Semivolatile Organic Compounds (ug/kg)				
Naphthalene	90 J	14000	8.1 U	120 J
2-Methylnaphthalene	49 J	11000	6.4 U	72 J
1,1-Biphenyl	12 U	1200 J	11 U	11 U
Acenaphthylene	62 J	110 U	11 U	11 U
Acenaphthene	52 J	9200	8.3 U	53 J
Dibenzofuran	52 J	6400	12 U	38 J
Fluorene	84 J	9100	11 U	50 J
Phenanthrene	1200	61000 D	8.4 U	340 J
Anthracene	210 J	17000	8.9 U	83 J
Carbazole	67 J	7500	8.3 U	50 J
Fluoranthene	1900 J	48000 D	5.2 U	260 J
Pyrene	1600	40000 D	6.7 U	220 J
Benzo(a)anthracene	1400	19000	5.7 U	120 J
Chrysene	1100	17000	12 U	87 J
bis(2-Ethylhexyl)phthalate	9.2 U	82 U	190 J	53 J
Benzo(b)fluoranthene	1500 J	26000 J	20 U	110 J
Benzo(k)fluoranthene	650	7500	13 U	41 J
Benzo(a)pyrene	1400 J	18000	6.4 U	98 J
Indeno(1,2,3-cd)pyrene	470 J	3500 J	9 U	45 J
Dibenz(a,h)anthracene	140 J	820 J	11 U	11 U
Benzo(g,h,i)perylene	630	5100	16 U	60 J
Total Confident Conc. SVOC	12,656	321,320	190	1,900
Carcinogenic SVOCs in BaP Equivalents	1,894.5	23,915	ND	126.8
Metals (mg/kg)				
Antimony	0.685 U	0.987 J	0.647 U	0.638 U
Arsenic	12.3	24.6	2.99	0.785 J
Beryllium	0.575 J	0.294 J	0.449 J	0.225 J
Cadmium	0.056 U	0.131 J	0.053 U	0.052 U
Chromium	11.8	15.7	14.5	9.77
Copper	60.6	53	13	9.76
Lead	123	281	7.59	5.89
Mercury	0.147 J	0.325	0.01 J	0.007 U
Nickel	11.8	12.7	14.8	8.88
Selenium	0.502 J	1.08	0.36 U	0.354 U
Silver	0.985 J	0.11 U	0.121 U	0.119 U
Thallium	0.401 UJ	0.377 J	0.379 UJ	1.29 J
Zinc	60.6	196	25.2	15
Cyanide (mg/kg)	2.66 J	38	0.575 U	0.566 U
Amenable Cyanide (mg/kg)	0.61 U	2.1	0.57 U	0.57 U

	SB-9 4 - 5	SB-9 8 - 10	SB-9 20 - 22	SB-9 26 - 28	SB-9 32 - 34
Volatile Organic Compounds (ug/kg)					
Acetone	30 J	54 J	92 U	14 J	10 J
Carbon Disulfide	0.11 U	1.8 J	1.2 U	0.12 U	0.13 U
Methyl tert-butyl Ether	0.25 U	0.26 U	2.8 U	4.1 J	1.3 J
Methylene Chloride	0.75 U	1.2 J	15 J	0.79 U	1.6 J
Cyclohexane	0.34 U	3.5 J	75	0.35 U	0.38 U
Methylcyclohexane	0.39 U	19	180	0.41 U	0.44 U
Benzene	0.22 U	9.1	880	6.2	0.25 U
Toluene	0.28 U	1.7 J	770	0.3 U	0.32 U
Ethyl Benzene	0.27 U	0.29 U	9100 D	11	0.31 U
m/p-Xylenes	3.1 J	0.59 U	6.3 U	0.6 U	0.64 U
o-Xylene	1.3 J	0.5 U	1400 J	3.2 J	0.54 U
Isopropylbenzene	0.41 U	1.4 J	1400	1.6 J	0.46 U
Total Confident Conc. VOC	34.4	91.7	13,805	40.1	12.9
Semivolatile Organic Compounds (ug/kg)					
2-Methylphenol	23 U	24 U	160 J	24 U	26 U
3+4-Methylphenols	17 U	17 U	130 J	17 U	19 U
Naphthalene	7.8 U	44 J	94000 D	780	75 J
2-Methylnaphthalene	6.2 U	6.5 U	7000 DJ	62 J	7.1 U
1,1-Biphenyl	11 U	11 U	880	11 U	12 U
Acenaphthylene	44 J	11 U	290 J	11 U	12 U
Acenaphthene	78 J	39 J	2500	38 J	9.1 U
Dibenzofuran	140 J	12 U	2600	12 U	14 U
Fluorene	170 J	11 U	2900	42 J	12 U
Phenanthrene	700	250 J	8500 D	140 J	9.2 U
Anthracene	49 J	91 J	2900 D	56 J	9.8 U
Carbazole	8 U	8.3 U	1100	8.4 U	9.1 U
Fluoranthene	740	530	5700 D	100 J	5.7 U
Pyrene	690	620	5500 D	100 J	7.3 U
Benzo(a)anthracene	190 J	290 J	2900	39 J	6.2 U
Chrysene	280 J	260 J	2500	50 J	13 U
bis(2-Ethylhexyl)phthalate	8.3 U	8.7 U	9.3 U	43 J	74 J
Benzo(b)fluoranthene	310 J	280 J	2200	20 U	22 U
Benzo(k)fluoranthene	160 J	140 J	1300 J	13 U	14 U
Benzo(a)pyrene	240 J	260 J	2000	6.5 U	7.1 U
Indeno(1,2,3-cd)pyrene	100 J	130 J	440	9.2 U	9.9 U
Dibenz(a,h)anthracene	11 U	11 U	95 J	11 U	12 U
Benzo(g,h,i)perylene	110 J	160 J	490	16 U	18 U
Total Confident Conc. SVOC	4,001	3,094	146,085	1,450	149
Carcinogenic SVOCs in BaP Equivalents	304.4	334	2,687	4.4	ND
Metals (mg/kg)					
Arsenic	1.94 J	1.79	4.91	1.7	1.53
Beryllium	0.322 J	0.391 J	0.289 J	0.475 J	0.251 J
Chromium	12.6	14.7	14.9	15.7	16.1
Copper	16	18.1	12.4	16.1	9.37
Lead	21.9	14.5 J	677 J	88.6 J	4.31 J
Mercury	0.22 U	0.11 J	0.05 J	0.01 J	0.01 UJ
Nickel	12.3	16.5	14	16.5	7.86
Selenium	0.606 J	0.525 J	0.565 J	0.527 J	0.383 U
Zinc	32.1	39.1	66.9	30.9	11.6
Cyanide (mg/kg)	0.55 U	0.57 U	31	0.58 U	0.62 U
Amenable Cyanide (mg/kg)	0.55 U	0.57 U	10.5	0.58 U	0.62 U
Pesticides (ug/Kg)	ND	ND	ND	ND	ND
Herbicides (ug/Kg)	ND	ND	ND	ND	ND
PCBs (ug/Kg)					
Aroclor-1260	3.2 U	3.3 U	3.6 U	3.4 U	16 J

	SB-53 6 - 7	SB-53 8.3 - 9.3	SB-53 14 - 15
Volatile Organic Compounds (ug/kg)			
Acetone	9.9 U	27 J	27 J
Methylene Chloride	5.5 J	0.82 U	0.76 U
Benzene	7	0.24 U	0.23 U
Toluene	6.6 J	0.31 U	1.6 J
o-Xylene	1.8 J	0.52 U	0.49 U
Total Confident Conc. VOC	25.2	27	30.4
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	12000	8.6 U	8 U
2-Methylnaphthalene	6400	6.8 U	6.3 U
1,1-Biphenyl	1200 J	12 U	11 U
Acenaphthylene	240 J	12 U	11 U
Acenaphthene	5500	8.8 U	8.1 U
Dibenzofuran	6200	13 U	12 U
Fluorene	5800	11 U	10 U
Phenanthrene	42000 D	52 J	8.2 U
Anthracene	9600	9.5 U	8.8 U
Carbazole	4500	8.8 U	8.1 U
Fluoranthene	33000 D	5.5 U	5.1 U
Pyrene	26000 D	7.1 U	6.6 U
Benzo(a)anthracene	12000	6 U	5.6 U
Chrysene	10000	13 U	12 U
bis(2-Ethylhexyl)phthalate	40 U	78 J	51 J
Benzo(b)fluoranthene	12000 DJ	21 U	20 U
Benzo(k)fluoranthene	4500	14 U	13 U
Benzo(a)pyrene	10000	6.8 U	6.3 U
Indeno(1,2,3-cd)pyrene	2300 J	9.6 U	8.9 U
Dibenz(a,h)anthracene	560 J	12 U	11 U
Benzo(g,h,i)perylene	3400	17 U	16 U
Total Confident Conc. SVOC	207,200	130	51
Carcinogenic SVOCs in BaP Equivalents	13,335	ND	ND
Metals (mg/kg)			
Arsenic	96.1	1.7	1.99
Beryllium	0.277 J	0.431 J	0.294 J
Cadmium	0.262 J	0.625	0.235 J
Chromium	22	14.7	16.6
Copper	60.1	49.1	34.6
Lead	430	3.9	3.96
Mercury	0.27	0.007 U	0.013
Nickel	3.49 J	15.1	22.6
Selenium	4.73	0.372 U	0.354 U
Silver	1.88	0.125 U	0.119 U
Zinc	66.1	124	82
Cyanide (mg/kg)	160	0.893	0.565 U
Amenable Cyanide (mg/kg)	12.6	0.6 U	0.56 U



	SB-14 4 - 5	SB-14 11 - 13	SB-14 17 - 19	SB-14 23 - 25
Volatile Organic Compounds (ug/kg)				
Acetone	8.5 U	8.6 U	8.5 U	28 J
Carbon Disulfide	1.3 J	0.12 U	0.11 U	3.4 J
Methylcyclohexane	0.4 U	4.6 J	0.4 U	0.52 U
o-Xylene	4.4 J	0.5 U	0.49 U	0.64 U
Isopropylbenzene	0.42 U	3.1 J	0.42 U	0.54 U
Total Confident Conc. VOC	5.7	9.5	ND	31.4
Semivolatile Organic Compounds (ug/kg)				
Naphthalene	520	41 J	8.2 U	10 U
2-Methylnaphthalene	220 J	6.5 U	6.5 U	8.3 U
Acenaphthene	320 J	8.3 U	8.3 U	11 U
Dibenzofuran	410	12 U	12 U	16 U
Fluorene	500	11 U	11 U	14 U
Phenanthrene	1400	8.4 U	8.4 U	11 U
Anthracene	340 J	9 U	9 U	11 U
Carbazole	120 J	8.3 U	8.3 U	11 U
Fluoranthene	1500	5.2 U	5.2 U	6.7 U
Pyrene	1600	6.7 U	6.7 U	8.6 U
Benzo(a)anthracene	1000	5.7 U	5.7 U	7.3 U
Chrysene	1100	12 U	12 U	15 U
bis(2-Ethylhexyl)phthalate	8.5 U	120 J	8.6 U	11 U
Benzo(b)fluoranthene	1400	20 U	20 U	26 U
Benzo(k)fluoranthene	700 J	13 U	13 U	16 U
Benzo(a)pyrene	1300	6.5 U	6.5 U	8.3 U
Indeno(1,2,3-cd)pyrene	690	9.1 U	9.1 U	12 U
Dibenz(a,h)anthracene	120 J	11 U	11 U	14 U
Benzo(g,h,i)perylene	750	16 U	16 U	21 U
Total Confident Conc. SVOC	13,990	161	ND	ND
Carcinogenic SVOCs in BaP Equivalents	1,747	ND	ND	ND
Metals (mg/kg)				
Arsenic	3.72 J	1.49	1.19	6.72
Beryllium	0.309 J	0.328 J	0.324 J	0.589 J
Chromium	10.5	10.4	10.5	20.9
Copper	23.4	14.3	13.1	13.3
Lead	184	8.21	5.34	8.72
Mercury	0.23 J	0.021 R	0.016 R	0.033 R
Nickel	13.8	9.22	9.07	19.9
Selenium	0.896 J	1.02 J	0.659 J	1.36 J
Silver	0.12 U	0.121 U	0.286 J	0.154 U
Thallium	0.377 U	0.914 J	0.983 J	1.05 J
Zinc	35.5	20	18.8	52.8
Cyanide (mg/kg)	0.57 U	0.58	0.57	0.73
Amenable Cyanide (mg/kg)	0.57 U	0.58	0.57	0.73
Pesticides (ug/Kg)	ND	--	--	--
Herbicides (ug/Kg)	ND	--	--	--
PCBs (ug/Kg)	ND	--	--	--

	SB-12 5 - 7	SB-12 7 - 9	SB-12 15 - 17	SB-12 25 - 27	SB-12 49 - 51
Volatile Organic Compounds (ug/kg)					
Acetone	19 J	13 J	46 J	25 J	8.7 U
Carbon Disulfide	1.7 J	3.4 J	0.12 U	0.14 U	0.12 U
Methyl tert-butyl Ether	0.24 U	0.24 UJ	2 J	0.33 U	0.27 U
Methylene Chloride	0.7 U	0.71 UJ	0.84 U	0.97 U	1.2 J
Methylcyclohexane	0.37 U	0.37 UJ	1.4 J	4.5 J	0.41 U
Benzene	0.21 U	0.21 UJ	18	110	0.23 U
Toluene	0.27 U	1.6 J	8.1	0.37 U	0.3 U
m/p-Xylenes	0.53 U	4.9 J	0.63 U	4.4 J	0.6 U
o-Xylene	0.45 U	2.2 J	0.53 U	2.6 J	0.5 U
Total Confident Conc. VOC	20.7	25.1	75.5	146.5	1.2
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	7.4 U	48 J	8.7 U	10 U	8.3 U
Acenaphthylene	10 U	57 J	12 U	14 U	11 U
Acenaphthene	7.5 U	49 J	8.9 U	10 U	8.4 U
Dibenzofuran	11 U	70 J	13 U	15 U	13 U
Fluorene	9.6 U	110 J	11 U	13 U	11 U
Phenanthrene	80 J	560	9 U	10 U	8.6 U
Anthracene	35 J	150 J	9.6 U	11 U	9.1 U
Carbazole	7.5 U	60 J	8.9 U	10 U	8.4 U
Fluoranthene	120 J	570	5.6 U	6.4 U	42 J
Pyrene	120 J	430	7.2 U	8.3 U	6.8 U
Butylbenzylphthalate	34 J	45 J	13 U	16 U	13 U
Benzo(a)anthracene	52 J	240 J	6.1 U	7 U	5.8 U
Chrysene	64 J	200 J	13 U	15 U	12 U
bis(2-Ethylhexyl)phthalate	390	380	63 J	57 J	42 J
Di-n-octyl phthalate	8.1 U	140 J	9.6 U	11 U	9.1 U
Benzo(b)fluoranthene	59 J	240 J	21 U	25 U	20 U
Benzo(k)fluoranthene	12 U	93 J	14 U	16 U	13 U
Benzo(a)pyrene	52 J	220 J	6.9 U	8 U	6.6 U
Indeno(1,2,3-cd)pyrene	8.2 U	100 J	9.7 U	11 U	9.3 U
Benzo(g,h,i)perylene	42 J	120 J	17 U	20 U	17 U
Total Confident Conc. SVOC	1,048	7,484	63	57	84
Carcinogenic SVOCs in BaP Equivalents	63.7	280.9	ND	ND	ND
Metals (mg/kg)					
Arsenic	1.83 J	1.55 J	2.63 J	7.78 J	1.03 J
Beryllium	0.185 J	0.149 J	0.341 J	0.496 J	0.171 J
Chromium	10.7	12	16.2	20.4	14.7
Copper	6.29	7.27	17.9	14.6	16.1
Lead	54.3	68.6	13.6	18.1	2.63
Nickel	5.75	4.31	13.6	18.6	11.4
Selenium	0.675 J	0.415 J	0.713 J	1.72	0.366 U
Silver	0.108 U	0.109 U	0.654 J	0.146 U	0.123 U
Zinc	34.2	40	28.5	51.8	14.9
Cyanide (mg/kg)	1.24	0.52 U	0.62 U	0.71 U	0.58 U
Amenable Cyanide (mg/kg)	0.52 U	0.52 U	0.62 U	0.71 U	0.58 U

	SB-11 5 - 6	SB-11 13 - 15	SB-11 27 - 29	SB-11 35 - 37	SB-11 37 - 39
Volatile Organic Compounds (ug/kg)					
Acetone	83 U	57 J	120 J	24 J	13 J
Carbon Disulfide	1.1 U	0.12 U	30 J	0.12 U	0.12 U
Methyl tert-butyl Ether	2.5 U	12	540 J	2.9 J	2.8 J
Methylene Chloride	7.6 U	0.82 U	14 J	2.3 J	1.7 J
Methylcyclohexane	3.9 U	94	570 J	0.43 U	0.43 U
Benzene	2.2 U	1.5 J	26000 D	7.3	0.24 U
Toluene	2.9 U	0.31 U	15000 D	3.1 J	0.31 U
Ethyl Benzene	310	1.9 J	18000 D	0.3 U	1.5 J
m/p-Xylenes	1500	5.7 J	6.4 UJ	0.62 U	0.62 U
o-Xylene	520	10	11000 D	0.52 U	1.2 J
Isopropylbenzene	140	6.3	1100 J	0.45 U	0.45 U
Total Confident Conc. VOC	2,470	188.4	72,374	39.6	20.2
Semivolatile Organic Compounds (ug/kg)					
3+4-Methylphenols	17 U	18 U	1500	18 U	18 U
Naphthalene	2400	8.6 U	1300000 DJ	280 J	8.6 U
2-Methylnaphthalene	2100	6.8 U	63000 DJ	6.8 U	6.8 U
1,1-Biphenyl	11 U	12 U	7700 D	12 U	12 U
Acenaphthylene	200 J	12 U	6400	12 U	12 U
Acenaphthene	410	8.8 U	12000 D	8.7 U	8.8 U
Dibenzofuran	680	13 U	15000 D	13 U	13 U
Fluorene	1100	11 U	18000 D	11 U	11 U
Phenanthrene	4500 D	89 J	63000 D	8.8 U	8.9 U
Anthracene	1000	9.5 U	19000 D	9.4 U	9.5 U
Carbazole	410	8.8 U	6300 D	8.7 U	8.8 U
Fluoranthene	4300 D	64 J	40000 JD	5.5 U	5.5 U
Pyrene	4300 D	73 J	32000 D	7 U	7.1 U
Benzo(a)anthracene	2000	6 U	16000 D	6 U	6 U
Chrysene	1800	13 U	13000 D	13 U	13 U
bis(2-Ethylhexyl)phthalate	8.4 U	78 J	19 U	88 J	9.1 U
Benzo(b)fluoranthene	2200	21 U	12000 D	21 U	21 U
Benzo(k)fluoranthene	830 J	14 U	5200	13 U	14 U
Benzo(a)pyrene	1700	6.8 U	11000 D	6.8 U	6.8 U
Indeno(1,2,3-cd)pyrene	740	9.6 U	1900	9.5 U	9.6 U
Dibenz(a,h)anthracene	120 J	12 U	400 J	12 U	12 U
Benzo(g,h,i)perylene	750	17 U	2300 J	17 U	17 U
Total Confident Conc. SVOC	31,540	304	1,645,700	368	-
Carcinogenic SVOCs in BaP Equivalents	2,340.3	ND	14,572	ND	ND
Metals (mg/kg)					
Antimony	0.625 UJ	1.02 J	1.79 J	0.672 U	0.664 U
Arsenic	3.15 J	1.56	3.85	2.26	0.295 J
Beryllium	0.374 J	0.302 J	0.32 J	0.43 J	0.214 J
Chromium	14.8	13	12	12.9	7.26
Copper	20.3 J	15.2	20.2	13.7	5.42
Lead	110 J	15.8 J	1740 J	13.8 J	5.1 J
Mercury	0.48 J	0.03 J	0.02 J	0.01 UJ	0.01 J
Nickel	15.3	13.3	12.2	12.1	8.47
Selenium	0.878 J	0.387 J	0.389 U	1.25 J	0.369 U
Silver	0.117 U	1.46	0.131 U	0.125 U	0.124 U
Zinc	59.5	30.2	69.4	23.4	10.1
Cyanide (mg/kg)	0.55 U	0.6 U	45 R	0.6 U	0.602 U
Amenable Cyanide (mg/kg)	0.55 U	0.6 U	7.9 R	0.6 U	0.6 U
Pesticides (ug/Kg)	ND	ND	ND	ND	ND
Herbicides (ug/Kg)					
2,4,5-T	1.4 U	1.5 U	1.6 U	6.8 PJ	7.1
PCBs (ug/Kg)	ND	ND	ND	ND	ND

	SB-10 5 - 6	SB-10 6 - 8	SB-10 8 - 10	SB-10 20 - 22	SB-10 48 - 50
Volatile Organic Compounds (ug/kg)					
Methyl tert-butyl Ether	50 U	500 U	260 U	280	2.2 J
Cyclohexane	52 U	17000 J	13000 J	3.6 U	0.37 U
Methylcyclohexane	460 J	24000	21000	4.2 U	0.43 U
Benzene	34 U	4600 J	7200	64	0.25 U
Toluene	2600	74000	37000	33 J	0.32 U
Ethyl Benzene	7700	53000	24000	49 J	0.3 U
m/p-Xylenes	38000	250000	92000	190	0.63 U
o-Xylene	18000	100000	35000	86	0.53 U
Isopropylbenzene	2200	13000	5600	4.4 U	0.45 U
Total Confident Conc. VOC	68,960	535,600	234,800	702	2.2
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	9100 D	9200 D	4000	5600 D	8.6 U
2-Methylnaphthalene	9300 D	7100 DJ	2400 J	220 J	6.8 U
1,1-Biphenyl	440 J	280 J	110 U	12 U	12 U
Acenaphthene	990	470 J	83 U	74 J	8.8 U
Dibenzofuran	680 J	370 J	120 U	89 J	13 U
Fluorene	1200	680 J	110 U	99 J	11 U
Phenanthrene	5300	3200	590 J	290 J	8.9 U
Anthracene	1800	1100	90 U	100 J	9.5 U
Carbazole	640 J	280 J	83 U	100 J	8.8 U
Fluoranthene	5300	3100	650 J	170 J	5.5 U
Pyrene	6800 D	3600	790 J	170 J	7.1 U
Benzo(a)anthracene	2700	1600	57 U	68 J	6 U
Chrysene	2300	1200	120 U	75 J	13 U
bis(2-Ethylhexyl)phthalate	17 U	170 J	86 U	54 J	69 J
Benzo(b)fluoranthene	2700	1400	500 J	56 J	21 U
Benzo(k)fluoranthene	1200 J	800 J	130 U	13 U	14 U
Benzo(a)pyrene	2400	1200	65 U	49 J	6.8 U
Indeno(1,2,3-cd)pyrene	750	210 J	91 U	9.5 U	9.6 U
Dibenz(a,h)anthracene	120 J	21 U	110 U	11 U	12 U
Benzo(g,h,i)perylene	1000	370 J	160 U	17 U	17 U
Total Confident Conc. SVOC	54,720	36,330	8,930	7,214	69
Carcinogenic SVOCs in BaP Equivalents	3,170	1,541	50	62.2	ND
Metals (mg/kg)					
Arsenic	1.7 J	2.42	4.02	2.47	2.01
Beryllium	0.281 J	0.255 J	0.25 J	0.21 J	0.457 J
Chromium	12.4	11.3	10.4	11.6	20.6
Copper	19.3	26.5	26.5	6.65	18.3
Lead	53.6	55.3 J	40.4 J	21.6 J	7.51 J
Mercury	0.22 U	0.09 J	0.07 J	0.01 UJ	0.01 J
Nickel	13.5	11.6	11.5	5.82	26.8
Selenium	0.838 J	0.347 U	0.653 J	0.368 U	0.384 U
Zinc	41.5	50.5	50	11.3	33.9
Cyanide (mg/kg)	0.56 U	0.55 U	0.58 U	2.08	0.61 U
Amenable Cyanide (mg/kg)	0.56 U	0.55 U	0.58 U	0.59 U	0.61 U
Pesticides (ug/Kg)	ND	ND	ND	ND	ND
Herbicides (ug/Kg)					
2,4,5-T	1.4 U	1.4 U	1.5 U	1.5 U	7.7
PCBs (ug/Kg)	ND	ND	ND	ND	ND

	TP2 10 - 11
Volatile Organic Compounds (ug/kg)	
Acetone	32 J
Methyl tert-butyl Ether	69 J
Cyclohexane	4.2 J
Methylcyclohexane	3.9 J
Benzene	49
Toluene	1.9 J
m/p-Xylenes	6.1
o-Xylene	3.1 J
Isopropylbenzene	2.7 J
Total Confident Conc. VOC	171.9
Semivolatile Organic Compounds (ug/kg)	
bis(2-Ethylhexyl)phthalate	66 J
Total Confident Conc. SVOC	66
Carcinogenic SVOCs in BaP Equivalents	ND
Metals (mg/kg)	
Arsenic	1.88
Beryllium	0.285 J
Chromium	10.9
Copper	11.9
Lead	13.3
Nickel	11.6
Selenium	0.54 J
Zinc	29.1
Cyanide (mg/kg)	0.6 U
Amenable Cyanide (mg/kg)	0.6 U

	SB-8 4 - 5	SB-8 11 - 11.5	SB-8 14.5 - 15
Volatile Organic Compounds (ug/kg)			
Acetone	43	41 UB	230 BJ
Methylene Chloride	2.5 J	15 JBU	12 JBU
Methylcyclohexane	0.39 U	940 J	2.2 U
Benzene	0.22 U	44	11 J
Tetrachloroethene	0.69 U	3.5 U	4 J
Ethyl Benzene	0.27 U	22 J	1.5 U
Isopropylbenzene	0.4 U	370	30 J
Total Confident Conc. VOC	43	1,376	275
Semivolatile Organic Compounds (ug/kg)			
2-Methylnaphthalene	280 J	2400 D	120 J
Fluorene	10 U	170 J	11 U
Phenanthrene	62 J	680	61 J
Anthracene	8.4 U	140 J	9.5 U
Pyrene	6.3 U	160 J	7.1 U
bis(2-Ethylhexyl)phthalate	8.1 U	140 J	49 J
Total Confident Conc. SVOC	342	3,690	230
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND
Metals (mg/kg)			
Arsenic	1.7	0.309 J	0.434 J
Beryllium	0.475 J	0.381 J	0.326 J
Cadmium	0.244 J	0.662	0.893
Chromium	16.5	14.7	26.3
Copper	16.2	12.8	8
Lead	7.89	11.5	7.28
Mercury	0.02 J	0.02 J	0.01 J
Nickel	14.3	12.5	11.7
Selenium	0.408 J	0.344 U	1.05 J
Silver	0.113 U	0.116 U	0.183 J
Thallium	0.357 J	0.363 U	0.401 U
Zinc	21.7	21.9	31.1
Cyanide (mg/kg)	0.545 U	1.06 J	0.61 UJ
Amenable Cyanide (mg/kg)	0.55 U	0.56 UJ	0.61 UJ
Pesticides (ug/Kg)	ND	--	--
Herbicides (ug/Kg)			
DICAMBA	14 P	--	--
2,4-D	1.4 J	--	--
PCBs (ug/Kg)	ND	--	--

	MW-7A 6 - 7
Volatile Organic Compounds (ug/kg)	
Acetone	44
Methylene Chloride	11 J
Total Confident Conc. VOC	55
Semivolatile Organic Compounds (ug/kg)	
Total Confident Conc. SVOC	ND
Carcinogenic SVOCs in BaP Equivalents	ND
Metals (mg/kg)	
Arsenic	2.61
Beryllium	0.621
Cadmium	0.379 J
Chromium	15.8
Copper	17
Lead	11.7
Mercury	0.03 J
Nickel	15.5
Selenium	0.656 J
Thallium	0.399 J
Zinc	41.5
Cyanide (mg/kg)	0.603 U
Amenable Cyanide (mg/kg)	0.6 U
Pesticides (ug/Kg)	ND
Herbicides (ug/Kg)	
DICAMBA	16 P
2,4-D	1.5 J
PCBs (ug/Kg)	ND

	SB-7 6 - 7	SB-7 17 - 19	SB-7 27 - 29	SB-7 43 - 45
Volatile Organic Compounds (ug/kg)				
Methylene Chloride	5.3 J	0.82 U	0.82 U	0.86 U
Total Confident Conc. VOC	5.3	ND	ND	ND
Semivolatile Organic Compounds (ug/kg)				
Total Confident Conc. SVOC	ND	ND	ND	ND
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND
Metals (mg/kg)				
Arsenic	3.19	1.11 J	0.283 U	0.299 U
Beryllium	0.73	0.524 J	0.37 J	0.634 J
Cadmium	0.482 J	0.054 U	0.055 U	0.058 U
Chromium	16.9	13.5	5.32	10.4
Copper	18.2	12.1	6.24	10.1
Lead	16.4	5.86	3.05	9.2
Mercury	0.04 J	0.02	0.01 U	0.01 U
Nickel	16.7	9.81	10.7	13.7
Selenium	1.1 J	0.37 U	0.373 U	0.395 U
Thallium	0.544 J	0.39 U	0.394 U	0.416 U
Zinc	46.6	17.7 J	9.31 J	24 J
Cyanide (mg/kg)	0.628 U	0.6 U	0.6 U	0.63 U
Amenable Cyanide (mg/kg)	0.63 U	0.6 U	0.6 U	0.63 U
Pesticides (ug/Kg)	ND	ND	ND	ND
Herbicides (ug/Kg)				
DICAMBA	12 P	1.5 U	1.6 U	1.6 U
2,4-D	1.6 J	22 P	5.5 UJ	5.8 U
PCBs (ug/Kg)	ND	ND	ND	ND

	TAGM RSCO
Volatile Organic Compounds (ug/kg)	
Dichlorodifluoromethane	NC
Chloromethane	NC
Vinyl Chloride	200
Bromomethane	NC
Chloroethane	1900
Trichlorofluoromethane	NC
1,1,2-Trichlorotrifluoroethane	6000
1,1-Dichloroethene	400
Acetone	200
Carbon Disulfide	2700
Methyl tert-butyl Ether	120
Methyl Acetate	NC
Methylene Chloride	100
trans-1,2-Dichloroethene	300
1,1-Dichloroethane	200
Cyclohexane	NC
2-Butanone	300
Carbon Tetrachloride	600
cis-1,2-Dichloroethene	NC
Chloroform	300
1,1,1-Trichloroethane	800
Methylcyclohexane	NC
Benzene	60
1,2-Dichloroethane	200
Trichloroethene	700
1,2-Dichloropropane	NC
Bromodichloromethane	NC
4-Methyl-2-Pentanone	1000
Toluene	1500
t-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
1,1,2-Trichloroethane	NC
2-Hexanone	NC
Dibromochloromethane	NA
1,2-Dibromoethane	NC
Tetrachloroethene	1400
Chlorobenzene	1700
Ethyl Benzene	5500
m/p-Xylenes	1200
o-Xylene	600
Styrene	NC
Bromoform	NC
Isopropylbenzene	2300
1,1,2,2-Tetrachloroethane	600
1,3-Dichlorobenzene	1600
1,4-Dichlorobenzene	8500
1,2-Dichlorobenzene	7900
1,2-Dibromo-3-Chloropropane	NC
1,2,4-Trichlorobenzene	3400
Total Confident Conc. VOC	10000
Metals (mg/kg)	
Arsenic	12
Barium	600
Cadmium	1
Chromium	40
Lead	500
Mercury	0.1
Selenium	3.9
Silver	SB
PCBs (ug/kg)	1,000 (surface)/ 10,000 (subsurface)
Cyanide (mg/kg)	NC

	TAGM RSCO
Semivolatile Organic Compounds (ug/kg)	
Benzaldehyde	NC
Phenol	30 or MDL
bis(2-Chloroethyl)ether	NC
2-Chlorophenol	800
2-Methylphenol	100 or MDL
2,2-oxybis(1-Chloropropane)	NC
Acetophenone	NC
3+4-Methylphenols	900
N-Nitroso-di-n-propylamine	NC
Hexachloroethane	NC
Nitrobenzene	200 or MDL
Isophorone	4,400
2-Nitrophenol	330 or MDL
2,4-Dimethylphenol	NC
bis(2-Chloroethoxy)methane	NC
2,4-Dichlorophenol	400
Naphthalene	13,000
4-Chloroaniline	220 or MDL
Hexachlorobutadiene	NC
Caprolatam	NC
4-Chloro-3-methylphenol	240 or MDL
2-Methylnaphthalene	36,400
Hexachlorocyclopentadiene	NC
2,4,6-Trichlorophenol	NC
2,4,5-Trichlorophenol	100
1,1-Biphenyl	NC
2-Chloronaphthalene	NC
2-Nitroaniline	430 or MDL
Dimethylphthalate	2,000
Acenaphthylene	41,000
2,6-Dinitrotoluene	1,000
3-Nitroaniline	500 or MDL
Acenaphthene	50,000
2,4-Dinitrophenol	200 or MDL
4-Nitrophenol	100 or MDL
Dibenzofuran	6,200
2,4-Dinitrotoluene	1,000
Diethylphthalate	7,100
4-Chlorophenyl-phenylether	NC
Fluorene	50,000
4-Nitroaniline	NC
4,6-Dinitro-2-methylphenol	NC
N-Nitrosodiphenylamine	NC
4-Bromophenyl-phenylether	NC
Hexachlorobenzene	410
Atrazine	NC
Pentachlorophenol	1000 or MDL
Phenanthrene	50,000
Anthracene	50,000
Carbazole	NC
Di-n-butylphthalate	8,100
Fluoranthene	50,000
Pyrene	50,000
Butylbenzylphthalate	50,000
3,3-Dichlorobenzidine	NA
Benzo(a)anthracene	224 or MDL
Chrysene	400
bis(2-Ethylhexyl)phthalate	50,000
Di-n-octyl phthalate	50,000
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,100
Benzo(a)pyrene	61 or MDL
Indeno(1,2,3-cd)pyrene	3,200
Dibenz(a,h)anthracene	14 or MDL
Benzo(g,h,i)perylene	50,000
Total Confident Conc. SVOC	500,000

● SOIL BORING LOCATION

SB–12 = SOIL BORING NUMBER
(15–17) = SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW–12A)

HISTORIC FEATURES

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

0 50 100
GRAPHIC SCALE

NORTH

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer–Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933–5541

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 6

Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 2

DESIGN:
DRAWN:
CHECKED:
SHEET OF
SCALE: 1" = 50'

SOIL BORING LOCATION

SB-48 = SOIL BORING NUMBER
(19-21) = SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW-12A)

HISTORIC FEATURES

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

GRAPHIC SCALE

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer-Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-0541

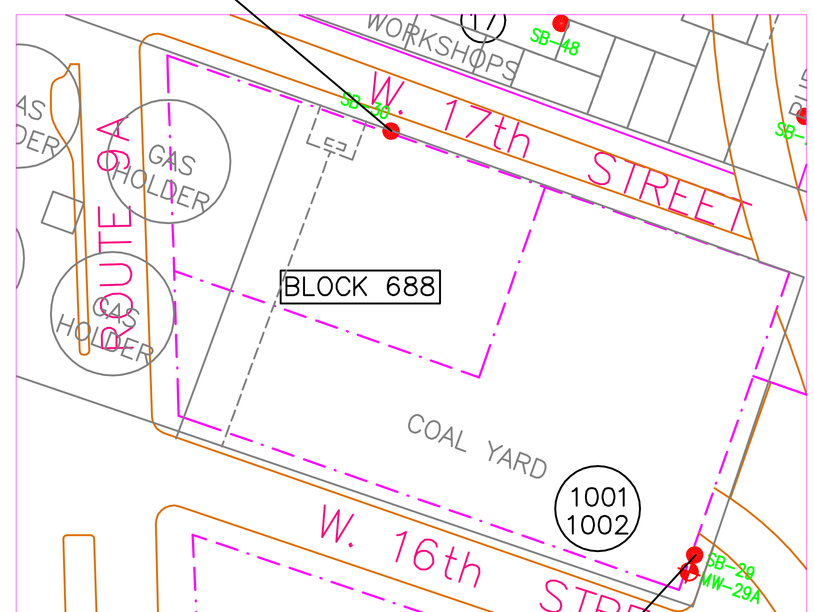
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 7

Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 3

DESIGN:		SHEET	OF
DRAWN:		SCALE: 1" = 50'	
CHECKED:			

	SB-30 10 - 12	SB-30 22-24	SB-30 24 - 26	SB-30 28 - 30	SB-30 84 - 86	SB-66 84 - 86
Volatile Organic Compounds (ug/kg)						
Acetone	48 BJ	5300 J	240 BJ	25 J	52 J	34 J
Carbon Disulfide	3.3 J	83 U	0.71 U	0.12 U	0.13 U	0.12 U
Methylene Chloride	2.7 JB	1300 J	33 J	0.82 U	0.85 U	0.83 U
Benzene	12	21000	7100 D	86	0.25 U	0.25 U
Toluene	7.1	81000 D	1900 D	43	0.32 U	0.32 U
Ethyl Benzene	0.29 U	59000 D	5700 D	55	0.31 U	0.3 U
m/p-Xylenes	4.7 J	150000 D	11000 D	130	0.64 U	0.63 U
o-Xylene	7.2	56000 D	4400 D	53	0.54 U	0.53 U
Styrene	0.36 U	14000 J	2.2 U	2.1 J	0.39 U	0.38 U
Isopropylbenzene	2.5 J	3300	47	1.1 J	0.46 U	0.45 U
Total Confident Conc. VOC	87.5	390,900	30,437	395.2	52	34
Semivolatile Organic Compounds (ug/kg)						
2,4-Dimethylphenol	41 U	910	1900	21 U	22 U	21 U
Naphthalene	1200	9600 D	660	63 J	8.9 U	8.6 U
2-Methylnaphthalene	330 J	2400 J	8 U	6.8 U	7.1 U	6.8 U
1,1-Biphenyl	100 J	200 J	14 U	12 U	12 U	12 U
Acenaphthylene	190 J	720	14 U	12 U	12 U	12 U
Acenaphthene	1700	200 J	10 U	8.7 U	9.1 U	8.8 U
Dibenzofuran	1300	470 J	15 U	13 U	14 U	13 U
Fluorene	1900 J	830 J	13 U	11 U	12 U	11 U
Phenanthrene	5800 DJ	2100 J	10 U	8.8 U	9.2 U	50 J
Anthracene	2000	490 J	11 U	9.4 U	9.8 U	9.5 U
Carbazole	17 U	260 J	10 U	8.7 U	9.1 U	8.8 U
Fluoranthene	5300	720	6.4 U	5.5 U	5.7 U	5.5 U
Pyrene	5200	790	8.3 U	7.1 U	7.3 U	55 J
Benzo(a)anthracene	2800	430 J	7 U	6 U	6.2 U	6 U
Chrysene	2100	320 J	15 U	13 U	13 U	13 U
bis(2-Ethylhexyl)phthalate	210 J	79 J	62 J	47 J	51 J	59 J
Benzo(b)fluoranthene	3300	270 J	25 U	21 U	22 U	21 U
Benzo(k)fluoranthene	1700 J	140 J	16 U	14 U	14 U	14 U
Benzo(a)pyrene	3100	280 J	8 U	6.8 U	7.1 U	6.8 U
Indeno(1,2,3-cd)pyrene	880 J	74 J	11 U	9.6 U	9.9 U	9.6 U
Dibenz(a,h)anthracene	170 J	16 U	14 U	12 U	12 U	12 U
Benzo(g,h,i)perylene	1300	100 J	20 U	17 U	18 U	17 U
Total Confident Conc. SVOC	40,580	21,683	2,622	152	51	164
Carcinogenic SVOCs in BaP Equivalents	4,006	362	ND	ND	ND	ND
Metals (mg/kg)						
Antimony	0.818 J	0.95 U	0.793 U	0.68 U	0.71 U	0.69 U
Arsenic	2.44	2.67	6.55	2.8	0.78 J	0.97 J
Beryllium	0.36 J	0.568 J	0.601 J	0.31 J	0.41 J	0.43 J
Chromium	10.2	19.4	18.4	15.5	13.5	15.4
Copper	24.7	15.9	11.7	10.4	15.6	19.4
Lead	74.3	3.67	2.78	5.9	6.2	7.4
Mercury	0.113 R	0.013 R	0.029 R	0.019	0.007 U	0.007 U
Nickel	10.9	14.1	17.5	11.1	14.6	18.7
Selenium	0.366 U	0.528 U	0.441 U	1.8 J	1.7 J	1.5 J
Silver	0.123 U	0.177 U	0.566 J	0.13 U	0.13 U	0.13 U
Zinc	57.4	29.4	49	28.5	23.5	31.6
Cyanide (mg/kg)	0.58 U	0.85 U	0.7 U	0.602 U	0.627 U	0.613 U
Amenable Cyanide (mg/kg)	0.58 U	0.85 U	0.7 U	0.6 U	0.63 U	0.61 U



TAGM RSCO	
Volatile Organic Compounds (ug/kg)	
Dichlorodifluoromethane	NC
Chloromethane	NC
Vinyl Chloride	200
Bromomethane	NC
Chloroethane	1900
Trichlorofluoromethane	NC
1,1,2-Trichlorotrifluoroethane	6000
1,1-Dichloroethene	400
Acetone	200
Carbon Disulfide	2700
Methyl tert-butyl Ether	120
Methyl Acetate	NC
Methylene Chloride	100
trans-1,2-Dichloroethene	300
1,1-Dichloroethane	200
Cyclohexane	NC
2-Butanone	300
Carbon Tetrachloride	600
cis-1,2-Dichloroethene	NC
Chloroform	300
1,1,1-Trichloroethane	800
Methylcyclohexane	NC
Benzene	60
1,2-Dichloroethane	200
Trichloroethene	700
1,2-Dichloropropane	NC
Bromodichloromethane	NC
4-Methyl-2-Pentanone	1000
Toluene	1500
t-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
1,1,2-Trichloroethane	NC
2-Hexanone	NC
Dibromochloromethane	NA
1,2-Dibromoethane	NC
Tetrachloroethene	1400
Chlorobenzene	1700
Ethyl Benzene	5500
m/p-Xylenes	1200
o-Xylene	600
Styrene	NC
Bromoform	NC
Isopropylbenzene	2300
1,1,2,2-Tetrachloroethane	600
1,3-Dichlorobenzene	1600
1,4-Dichlorobenzene	8500
1,2-Dichlorobenzene	7900
1,2-Dibromo-3-Chloropropane	NC
1,2,4-Trichlorobenzene	3400
Total Confident Conc. VOC	10000
Metals (mg/kg)	
Arsenic	12
Barium	600
Cadmium	1
Chromium	40
Lead	500
Mercury	0.1
Selenium	3.9
Silver	SB
PCBs (ug/kg)	1,000 (surface)/ 10,000 (subsurface)
Cyanide (mg/kg)	NC

TAGM RSCO	
Semivolatile Organic Compounds (ug/kg)	
Benzaldehyde	NC
Phenol	30 or MDL
bis(2-Chloroethyl)ether	NC
2-Chlorophenol	800
2-Methylphenol	100 or MDL
2,2-oxybis(1-Chloropropane)	NC
Acetophenone	NC
3+4-Methylphenols	900
N-Nitroso-di-n-propylamine	NC
Hexachloroethane	NC
Nitrobenzene	200 or MDL
Isophorone	4,400
2-Nitrophenol	330 or MDL
2,4-Dimethylphenol	NC
bis(2-Chloroethoxy)methane	NC
2,4-Dichlorophenol	400
Naphthalene	13,000
4-Chloroaniline	220 or MDL
Hexachlorobutadiene	NC
Caprolatam	NC
4-Chloro-3-methylphenol	240 or MDL
2-Methylnaphthalene	36,400
Hexachlorocyclopentadiene	NC
2,4,6-Trichlorophenol	NC
2,4,5-Trichlorophenol	100
1,1-Biphenyl	NC
2-Chloronaphthalene	NC
2-Nitroaniline	430 or MDL
Dimethylphthalate	2,000
Acenaphthylene	41,000
2,6-Dinitrotoluene	1,000
3-Nitroaniline	500 or MDL
Acenaphthene	50,000
2,4-Dinitrophenol	200 or MDL
4-Nitrophenol	100 or MDL
Dibenzofuran	6,200
2,4-Dinitrotoluene	1,000
Diethylphthalate	7,100
4-Chlorophenyl-phenylether	NC
Fluorene	50,000
4-Nitroaniline	NC
4,6-Dinitro-2-methylphenol	NC
N-Nitrosodiphenylamine	NC
4-Bromophenyl-phenylether	NC
Hexachlorobenzene	410
Atrazine	NC
Pentachlorophenol	1000 or MDL
Phenanthrene	50,000
Anthracene	50,000
Carbazole	NC
Di-n-butylphthalate	8,100
Fluoranthene	50,000
Pyrene	50,000
Butylbenzylphthalate	50,000
3,3-Dichlorobenzidine	NA
Benzo(a)anthracene	224 or MDL
Chrysene	400
bis(2-Ethylhexyl)phthalate	50,000
Di-n-octyl phthalate	50,000
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,100
Benzo(a)pyrene	61 or MDL
Indeno(1,2,3-cd)pyrene	3,200
Dibenz(a,h)anthracene	14 or MDL
Benzo(g,h,i)perylene	50,000
Total Confident Conc. SVOC	500,000

	SB-29 11 - 13	SB-29 34 - 36	SB-29 38 - 39	SB-29 48 - 50	SB-71 48 - 50
Volatile Organic Compounds (ug/kg)					
Methylene Chloride	7.9 BJ	3.1 JB	3.4 JB	3.5 JB	3.5 JB
Chloroform	1.2 J	0.28 U	0.3 U	0.29 U	0.29 U
Benzene	2 J	0.24 U	0.26 U	0.25 U	0.25 U
Trichloroethene	27 J	0.38 U	0.41 U	0.39 U	0.39 U
Toluene	4.1 J	0.3 U	0.33 U	0.32 U	0.32 U
Tetrachloroethene	20 J	0.75 U	4.2 J	0.77 U	0.77 U
m/p-Xylenes	3.4 J	0.6 U	0.65 U	0.63 U	0.63 U
Total Confident Conc. VOC	66.8	3.1	7.6	3.5	3.5
Semivolatile Organic Compounds (ug/kg)					
2-Methylnaphthalene	47 J	100 J	7.1 U	6.8 U	6.9 U
bis(2-Ethylhexyl)phthalate	92 J	82 J	61 J	75 J	120 J
Total Confident Conc. SVOC	139	182	61	75	120
Carcinogenic SVOCs in BaP Equivalents	ND	ND	ND	ND	ND
Metals (mg/kg)					
Arsenic	1.99	0.468 J	2.1	1.53	1.82
Beryllium	0.261 J	0.22 J	0.462 J	0.441 J	0.62
Cadmium	0.116 J	0.054 U	0.231 J	0.171 J	0.212 J
Chromium	14	13.8	12.5	11.7	15.9
Copper	20.3	11.4	17.3	9.69 R	14.2
Lead	15.9	9.19	10.2	8.82 J	12
Mercury	0.02	0.007 U	0.014	0.007 U	0.007 U
Nickel	13.6	18.6	16.8	12.7 R	17
Selenium	0.366 U	0.37 U	0.526 J	0.382 U	0.561 J
Silver	1.19	0.945 J	1.93	0.569 J	0.397 J
Thallium	0.887 J	0.39 U	0.415 U	0.52 J	0.557 J
Zinc	28.5	18.2	31.6	20 R	30.2
Cyanide (mg/kg)	0.584 U	0.59 U	0.635 U	0.61 U	0.612 U
Amenable Cyanide (mg/kg)	0.58 U	0.59 U	0.64 U	0.61 U	0.61 U

SOIL BORING LOCATION

SB-29 = SOIL BORING NUMBER
(34-36)= SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW-29A)

HISTORIC FEATURES

0 50 100
GRAPHIC SCALE

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer-Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-5541

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 8

Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 4

DESIGN:
DRAWN:
CHECKED:
SHEET OF
SCALE: 1" = 50'

	SB-39 7.5 - 8	SB-39 22 - 23
Volatile Organic Compounds (ug/kg)		
Acetone	100	170
Carbon Disulfide	61 J	7.9 J
Methylene Chloride	13 J	9.3 J
2-Butanone	13 J	3.2 U
Tetrachloroethene	4.5 J	3.7 J
Total Confident Conc. VOC	191.5	190.9
Semivolatile Organic Compounds (ug/kg)		
Naphthalene	58 J	79 J
Acenaphthene	8.9 U	150 J
4-Nitrophenol	39 U	51 J
Dibenzofuran	13 U	56 J
Fluorene	43 J	110 J
Phenanthrene	260 J	1100
Anthracene	110 J	380 J
Carbazole	8.9 U	160 J
Fluoranthene	310 J	1800
Pyrene	360 J	1700
Benzo(a)anthracene	270 J	1700
Chrysene	210 J	1400
bis(2-Ethylhexyl)phthalate	130 J	1700
Benzo(b)fluoranthene	290 J	2200
Benzo(k)fluoranthene	130 J	1100
Benzo(a)pyrene	280 J	2400
Indeno(1,2,3-cd)pyrene	9.8 UJ	1100 J
Dibenz(a,h)anthracene	12 U	85 J
Benzo(g,h,i)perylene	180 J	1000
Total Confident Conc. SVOC	2,631	18,271
Carcinogenic SVOCs in BaP Equivalents	339.4	3,010
Metals (mg/kg)		
Arsenic	19.6	24.2
Beryllium	0.379 J	0.499 J
Cadmium	1.9	1.75
Chromium	14	13.1
Copper	38.7	43.9
Lead	150	584
Mercury	1.4	0.96
Nickel	12.3	17.8
Selenium	1.74	2
Silver	1.95	0.811 J
Zinc	76.8	96.3
Cyanide (mg/kg)	1.35	0.7 U
Amenable Cyanide (mg/kg)	0.62 U	0.7 U

	B-90 4 - 5
Volatile Organic Compounds (ug/kg)	
Total Confident Conc. VOC	ND
Semivolatile Organic Compounds (ug/kg)	
Phenanthrene	180 J
Benzo(a)anthracene	210 J
Chrysene	190 J
Benzo(b)fluoranthene	310 J
Benzo(a)pyrene	140 J
Indeno(1,2,3-cd)pyrene	96 J
Benzo(g,h,i)perylene	130 J
Total Confident Conc. SVOC	1,256
Carcinogenic SVOCs in BaP Equivalents	203.5
Metals (mg/kg)	
Arsenic	2.8
Beryllium	0.2 J
Chromium	16.5
Copper	16.1
Lead	27.2
Mercury	0.103
Nickel	14.4
Silver	0.36 J
Zinc	124
Cyanide (mg/kg)	0.526 U
Amenable Cyanide (mg/kg)	0.53 U

	B-91 4 - 5	B-91 8 - 11	B-91 11 - 15
Volatile Organic Compounds (ug/kg)			
Total Confident Conc. VOC	ND	ND	ND
Semivolatile Organic Compounds (ug/kg)			
Dibenzofuran	110 U	120 J	63 U
Fluorene	120 U	260 J	65 U
Phenanthrene	270 J	1800	250 J
Anthracene	100 U	680	110 J
Carbazole	110 U	200 J	59 U
Fluoranthene	890	2100	330 J
Pyrene	970	2000	440
Benzo(a)anthracene	520 J	1100	320 J
Chrysene	470 J	980	300 J
bis(2-Ethylhexyl)phthalate	130 U	1400	74 U
Benzo(b)fluoranthene	910	1200	430
Benzo(k)fluoranthene	150 U	250 J	94 J
Benzo(a)pyrene	580 J	940	410
Indeno(1,2,3-cd)pyrene	260 J	320 J	110 J
Dibenz(a,h)anthracene	87 U	130 J	68 J
Benzo(g,h,i)perylene	310 J	450	180 J
Total Confident Conc. SVOC	5,180	14,267	3,042
Carcinogenic SVOCs in BaP Equivalents	755.2	1,344.3	567.9
Metals (mg/kg)			
Antimony	0.35 U	0.48 J	3.5 J
Arsenic	1.9	2.1	4.6
Beryllium	0.22 J	0.23 J	0.42 J
Chromium	15.3	12.5	16.8
Copper	16.2	17.1	26.9
Lead	25.6	114	361
Mercury	0.046	0.209	0.273
Nickel	34	19.1	16.3
Silver	0.37 J	0.33 J	0.89 J
Zinc	47.8	58.8	138
Cyanide (mg/kg)	1.59	0.593 U	0.59 U
Amenable Cyanide (mg/kg)	0.53 U	0.59 U	0.59 U

	B-92 0 - 1	B-92 3	B-92 9 - 13
Volatile Organic Compounds (ug/kg)			
Total Confident Conc. VOC	ND	ND	ND
Semivolatile Organic Compounds (ug/kg)			
Phenanthrene	64 U	70 U	100 J
Fluoranthene	87 J	92 J	140 J
Pyrene	100 J	98 J	190 J
Benzo(a)anthracene	120 J	110 J	150 J
Chrysene	110 J	86 J	130 J
Benzo(b)fluoranthene	210 J	150 J	220 J
Benzo(a)pyrene	160 J	120 J	210 J
Indeno(1,2,3-cd)pyrene	72 J	56 U	73 J
Benzo(g,h,i)perylene	91 J	72 U	110 J
Total Confident Conc. SVOC	950	656	1,323
Carcinogenic SVOCs in BaP Equivalents	201.3	146.9	255.6
Metals (mg/kg)			
Arsenic	5.1	2.2	7.2
Beryllium	0.4 J	0.49 J	0.53 J
Chromium	19.2	20	22
Copper	54.5	98.7	33.2
Lead	349	219	162
Mercury	1.9	1.3	0.608
Nickel	15.7	19.4	21.5
Silver	0.91 J	1.4	1.1 J
Zinc	133	172	80.9
Cyanide (mg/kg)	0.614 U	0.678 U	0.736 U
Amenable Cyanide (mg/kg)	0.61 U	0.68 U	0.74 U

	SB-38 3 - 4	SB-38 4 - 5	SB-38 13 - 15	SB-38 21 - 23
Volatile Organic Compounds (ug/kg)				
Acetone	9.9 U	10 U	55 J	12 U
Carbon Disulfide	0.13 U	0.14 U	1.7 J	0.16 U
Methylene Chloride	0.91 U	0.92 U	3.7 J	1.1 U
2-Butanone	3 U	3.1 U	9.8 J	3.6 U
Benzene	28	30	2.1 J	7.1 J
Toluene	17 J	6.4 J	0.38 U	0.41 U
m/p-Xylenes	8.1	0.69 U	0.76 U	0.82 U
Total Confident Conc. VOC	53.1	36.4	60.8	7.1
Semivolatile Organic Compounds (ug/kg)				
Naphthalene	1700	950 J	53 U	86 J
2-Methylnaphthalene	280 J	280 J	42 U	9 U
1,1-Biphenyl	150 J	150 J	72 U	15 U
Acenaphthylene	480 J	190 J	72 U	16 U
Acenaphthene	330 J	260 J	370 J	63 J
Dibenzofuran	460 J	520 J	320 J	17 U
2,4-Dinitrotoluene	200 J	18 U	48 U	10 U
Diethylphthalate	27 U	28 U	76 U	240 J
Fluorene	790 J	1100 J	1100 J	15 U
Phenanthrene	4100	3600 J	9700	420 J
Anthracene	920	910 J	5300	92 J
Carbazole	380 J	320 J	330 J	11 U
Di-n-butylphthalate	12 U	12 U	32 U	15000 D
Fluoranthene	7000 DJ	3400 J	11000	280 J
Pyrene	6700 D	3100	7700	330 J
Butylbenzylphthalate	29 U	30 U	81 U	57 J
Benzo(a)anthracene	5600	2600 J	5800	290 J
Chrysene	5100	2000	4500	290 J
bis(2-Ethylhexyl)phthalate	20 U	110 J	56 U	260 J
Benzo(b)fluoranthene	9000 D	2600	3100	270 J
Benzo(k)fluoranthene	2600	1400	2000 J	340 J
Benzo(a)pyrene	6900 D	2400	3500	480 J
Indeno(1,2,3-cd)pyrene	2800 J	670 J	1200 J	270 J
Dibenz(a,h)anthracene	1300	150 J	550 J	a94 J
Benzo(g,h,i)perylene	2600	750 J	1000 J	300 J
Total Confident Conc. SVOC	59,390	27,460	57,470	19,162
Carcinogenic SVOCs in BaP Equivalents	10,017	3,171	5,125	663.3
Metals (mg/kg)				
Antimony	0.749 U	0.758 U	0.82 U	1.7 J
Arsenic	6.81	3.88	6	9.1
Beryllium	0.426 J	0.257 J	0.52 J	0.78
Cadmium	0.414 J	0.192 J	0.07 U	0.22 J
Chromium	15.6 J	12 J	17.4	25.7
Copper	65.3	43.6	28.3	42.8
Lead	1080	282	147 J	133 J
Mercury	0.54 J	0.4 J	0.62 J	0.33 J
Nickel	16.9 J	16.4 J	18.4	29.5
Selenium	0.521 J	0.421 UJ	0.46 U	0.49 U
Silver	0.81 J	0.413 J	0.15 U	0.16 U
Zinc	188 J	132 J	66.6	95.4
Cyanide (mg/kg)	0.665 U	0.673 U	2.09	2.4
Amenable Cyanide (mg/kg)	0.665 U	0.673 U	0.73 U	0.79 U

	TP-4 5 - 6
Volatile Organic Compounds (ug/kg)	
Benzene	10
Toluene	4.9 J
Total Confident Conc. VOC	14.9
Semivolatile Organic Compounds (ug/kg)	
Naphthalene	140 J
2-Methylnaphthalene	65 J
Acenaphthylene	130 J
Acenaphthene	250 J
Dibenzofuran	180 J
Fluorene	280 J
Phenanthrene	3800 D
Anthracene	760
Carbazole	270 J
Fluoranthene	5200 D
Pyrene	4100 D
Benzo(a)anthracene	2100
Chrysene	2000
Benzo(b)fluoranthene	2400 J
Benzo(k)fluoranthene	1200
Benzo(a)pyrene	2200
Indeno(1,2,3-cd)pyrene	690 J
Dibenz(a,h)anthracene	270 J
Benzo(g,h,i)perylene	750 J
Total Confident Conc. SVOC	26,785
Carcinogenic SVOCs in BaP Equivalents	3,021
Metals (mg/kg)	
Antimony	44.1 J
Arsenic	8.1
Beryllium	0.38 J
Cadmium	0.7
Chromium	16.6 J
Copper	88.7 J
Lead	2000 J
Mercury	1.5
Nickel	18.6
Silver	0.17 J
Zinc	274 J
Cyanide (mg/kg)	0.588 U
Amenable Cyanide (mg/kg)	0.59 U

● SOIL BORING LOCATION

SB-31 = SOIL BORING NUMBER

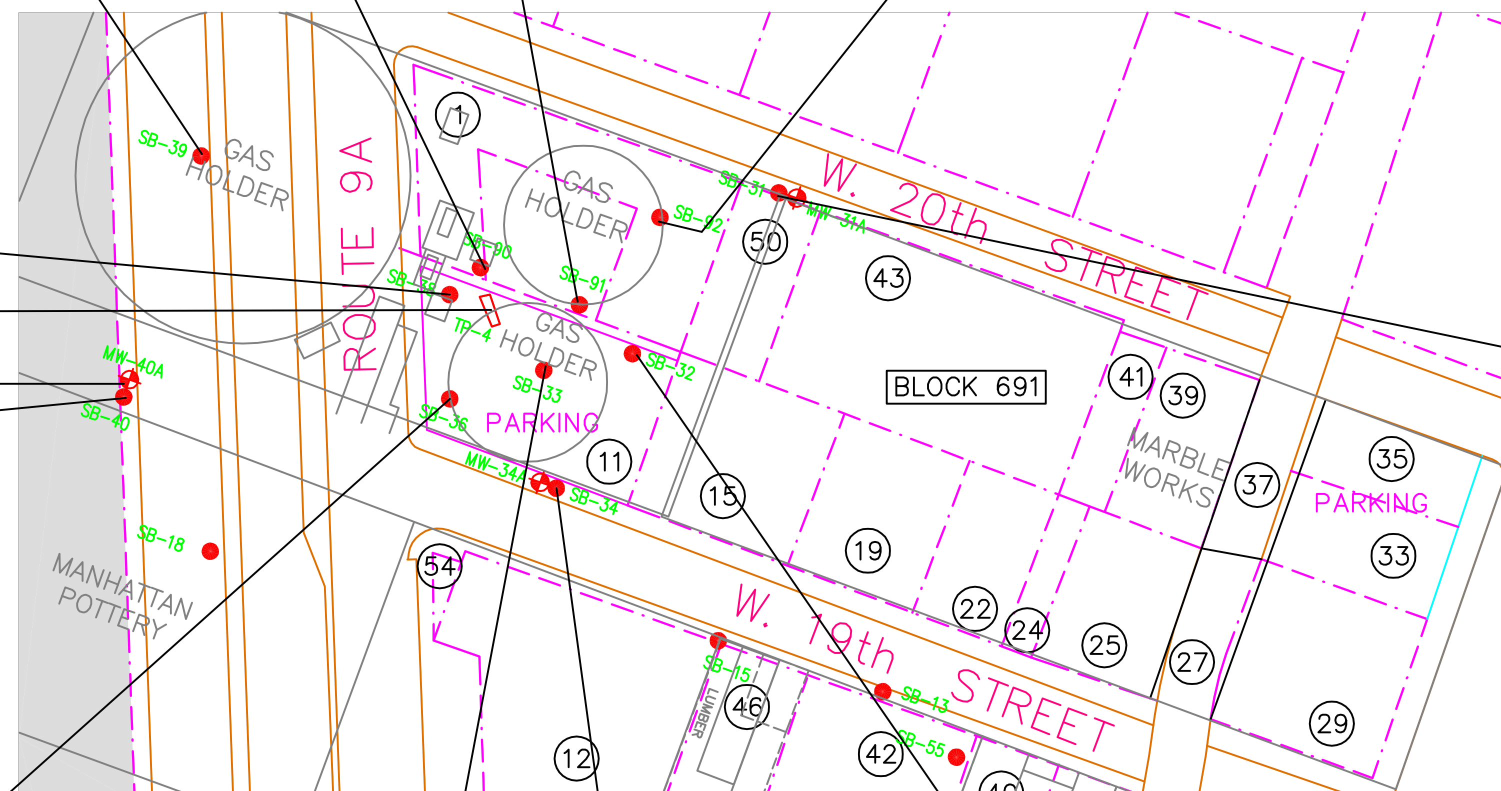
(21–23)= SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW–29A)

HISTORIC FEATURES

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

	SB-31 7.1 - 7.7	SB-31 21 - 23	SB-31 25 - 27
Volatile Organic Compounds (ug/kg)			
Chloromethane	0.53 UJ	8.3 J	0.54 U
Acetone	12 UJ	170 BJ	170 BJ
Carbon Disulfide	0.16 UJ	3.8 J	9.6 J
Methyl Acetate	2.1 UJ	2.9 J	2.1 U
Methylene Chloride	1.1 UJ	10 J	15 BJ
2-Butanone	3.7 UJ	16 J	3.7 U
Chloroform	0.38 UJ	2.5 J	0.39 U
Methylcyclohexane	0.57 UJ	3.7 J	0.58 U
Benzene	0.33 UJ	190	3.4 J
Toluene	4.4 J	3.5 J	0.42 U
Tetrachloroethene	70 J	1.1 U	1 U
Ethyl Benzene	2.4 J	1000 D	0.41 U
m/p-Xylenes	7.3 J	87 J	0.84 U
o-Xylene	2.8 J	37	1.9 J
Isopropylbenzene	0.6 UJ	71	0.61 U
Total Confident Conc. VOC	86.9	1,605.7	199.9
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	440 J	4300	12 U
2-Methylnaphthalene	140 J	540 J	9.3 U
1,1-Biphenyl	16 UJ	67 J	16 U
Acenaphthene	110 J	230 J	12 U
Dibenzofuran	17 UJ	110 J	18 U
Fluorene	15 UJ	150 J	15 U
Phenanthrene	490 J	140 J	12 U
Anthracene	210 J	14 U	13 U
Carbazole	12 UJ	220 J	12 U
Fluoranthene	560 J	8.1 U	7.5 U
Pyrene	730 J	10 U	9.7 U
Benzo(a)anthracene	490 J	8.8 U	8.2 U
Chrysene	440 J	19 U	17 U
bis(2-Ethylhexyl)phthalate	12 UJ	13 U	150 J
Benzo(b)fluoranthene	430 J	31 U	29 U
Benzo(k)fluoranthene	200 J	20 U	18 U
Benzo(a)pyrene	270 J	10 U	9.3 U
Indeno(1,2,3-cd)pyrene	210 J	14 U	13 U
Benzo(g,h,i)perylene	190 J	25 U	24 U
Total Confident Conc. SVOC	4,910	5,757	150
Carcinogenic SVOCs in BaP Equivalents	389.4	ND	ND
Metals (mg/kg)			
Arsenic	12.5	10.4	8.96
Beryllium	0.826	0.767 J	0.787 J
Cadmium	1.69	0.081 U	0.075 U
Chromium	32.9	21.9	23.1
Copper	184	19.3	19.6
Lead	1660	28.5	22.6
Mercury	2.3	0.216 R	0.166 R
Nickel	24.9	21.4	22.6
Selenium	3.16	0.549 U	0.512 U
Silver	3.73	0.233 J	0.172 U
Thallium	0.53 U	1.44 J	0.54
Zinc	305	57.7	68
Cyanide (mg/kg)	0.81 U	0.89 U	0.82 U
Amenable Cyanide (mg/kg)	0.81 U	0.89 U	0.82 U



	MW-40A 4 - 5
Volatile Organic Compounds (ug/kg)	
Methylene Chloride	3.5 J
Total Confident Conc. VOC	3.5
Semivolatile Organic Compounds (ug/kg)	
Acenaphthene	89 J
Dibenzofuran	71 J
Fluorene	99 J
Phenanthrene	1100
Anthracene	220 J
Carbazole	120 J
Fluoranthene	900
Pyrene	1000
Benzo(a)anthracene	400 J
Chrysene	450
Benzo(b)fluoranthene	300 J
Benzo(k)fluoranthene	130 J
Benzo(a)pyrene	280 J
Indeno(1,2,3-cd)pyrene	240 J
Benzo(g,h,i)perylene	150 J
Total Confident Conc. SVOC	5,549
Carcinogenic SVOCs in BaP Equivalents	379.8
Metals (mg/kg)	
Antimony	1.47 J
Arsenic	12
Beryllium	0.406 J
Cadmium	0.408 J
Chromium	11.8
Copper	20.6
Lead	137
Mercury	0.21 J
Nickel	16.3
Selenium	1.18 J
Silver	0.379 J
Thallium	0.413 J
Zinc	81.4
Cyanide (mg/kg)	0.637 U
Amenable Cyanide (mg/kg)	0.64 U

	SB-40B 33 - 35	SB-40B 35 - 37	SB-40B 41 - 43
Volatile Organic Compounds (ug/kg)			
Acetone	37 J	120 U	11 UJ
Carbon Disulfide	2.8 J	1.6 U	0.15 UJ
Methylcyclohexane	0.44 U	51 J	0.53 UJ
Benzene	0.25 U	290	0.3 UJ
Toluene	0.32 U	220	0.39 UJ
Ethyl Benzene	0.31 U	1300 D	0.37 UJ
m/p-Xylenes	0.63 U	4400	0.77 UJ
o-Xylene	0.53 U	2700	0.64 UJ
Isopropylbenzene	0.46 U	690	0.55 R
Total Confident Conc. VOC	39.8	8,351	ND
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	8.8 U	15000 D	110 J
2-Methylnaphthalene	7 U	6000 D	8.4 U
1,1-Biphenyl	12 U	980 J	14 U
Acenaphthylene	12 U	1500	15 U
Acenaphthene	8.9 U	3600	11 U
Dibenzofuran	13 U	2500	16 U
Fluorene	11 U	5900	14 U
Phenanthrene	9 U	17000 DJ	82 J
Anthracene	9.7 U	5000	12 U
Carbazole	8.9 U	840 J	11 U
Fluoranthene	5.6 U	7300 D	6.8 U
Pyrene	7.2 U	8100 D	8.7 U
Benzo(a)anthracene	6.1 U	4800	7.4 U
Chrysene	13 U	3400	15 U
bis(2-Ethylhexyl)phthalate	270 J	180 J	93 J
Benzo(b)fluoranthene	21 U	2700 J	26 U
Benzo(k)fluoranthene	14 U	920 J	17 U
Benzo(a)pyrene	7 U	2700	8.4 U
Indeno(1,2,3-cd)pyrene	9.8 U	730 J	12 U
Dibenz(a,h)anthracene	12 U	180 J	14 U
Benzo(g,h,i)perylene	18 U	850 J	21 U
Total Confident Conc. SVOC	270	90,180	285
Carcinogenic SVOCs in BaP Equivalents	ND	3,746.2	ND
Metals (mg/kg)			
Arsenic	5.71	11.9	9.49
Beryllium	0.575 J	1.04	0.88
Cadmium	0.908	2.17	1.97
Chromium	15.1	38	23.1
Copper	28.6	38.9	14.5
Lead	154	139	15.4
Mercury	0.38	0.16	0.02
Nickel	19.6	26.4	23.1
Selenium	1.58	2.38	1.58
Silver	0.913 J	1.44 J	1.32 J
Zinc	52.7	84.1	78.5
Cyanide (mg/kg)	0.62 U	0.8 U	0.74 U
Amenable Cyanide (mg/kg)	0.62 U	0.79 U	0.75 U

	SB-36 3 - 4	SB-36 5 - 7	SB-36 17 - 19	SB-73 17 - 19	SB-36 25 - 27	SB-36 33 - 35
Volatile Organic Compounds (ug/kg)						
Carbon Disulfide	0.12 U	15 J	0.13 U	0.14 UJ	64 U	0.16 U
Methylcyclohexane	0.41 U	4.9 U	0.46 U	0.49 UJ	1000	0.56 U
Benzene	9.9	2.8 U	5 J	13 J	43000 D	2000 D
Toluene	5.3 J	3.6 U	4.1 J	5.7 J	17000	11
Ethyl Benzene	0.29 U	3.5 U	0.32 U	0.35 UJ	31000	3.7 J
m/p-Xylenes	0.6 U	130	0.66 U	0.71 UJ	45000	4.3 J
o-Xylene	0.5 U	120	0.55 U	0.6 UJ	16000	0.69 U
Styrene	0.36 U	4.3 U	0.4 U	0.43 UJ	3300	0.5 U
Isopropylbenzene	0.43 U	21 R	0.47 R	0.51 R	1200	0.59 R
Total Confident Conc. VOC	15.2	286.0	9.1	18.7	157,500	2,019
Semivolatile Organic Compounds (ug/kg)						
2,4-Dimethylphenol	21 U	250 U	23 U	24 U	320 J	28 U
Naphthalene	360 J	3700 J	120 J	9.8 U	72000 D	520 J
2-Methylnaphthalene	88 J	9300	7.3 U	7.8 U	16000 D	110 J
1,1-Biphenyl	11 U	920 J	12 U	13 U	3000	16 U
Acenaphthylene	75 J	140 U	13 U	14 U	3200	16 U
Acenaphthene	400	100 U	9.3 U	10 U	15000 D	120 J
Dibenzofuran	230 J	150 U	14 U	15 U	14000	110 J
Fluorene	420	860 J	48 J	13 U	18000 D	140 J
Phenanthrene	2900	1600 J	230 J	100 J	77000 D	580
Anthracene	780	710 J	49 J	11 U	25000 D	190 J
Carbazole	310 J	100 U	9.3 U	10 U	9800	67 J
Fluoranthene	3000 DJ	5100	340 J	140 J	51000 D	400 J
Pyrene	3000 D	4200 J	340 J	120 J	37000 D	310 J
Butylbenzylphthalate	13 U	170000 D	14 U	15 U	58 U	18 U
Benzo(a)anthracene	1900	1700 J	170 J	49 J	19000 D	170 J
Chrysene	1800	1700 J	180 J	63 J	16000 D	140 J
bis(2-Ethylhexyl)phthalate	45 J	100 U	9.7 U	10 U	200 J	12 U
Benzo(b)fluoranthene	2700	1700 J	160 J	48 J	15000 DJ	99 J
Benzo(k)fluoranthene	570	1000 J	120 J	15 U	9000	79 J
Benzo(a)pyrene	2000	1100 J	170 J	51 J	14000 D	110 J
Indeno(1,2,3-cd)pyrene	630 J	110 UJ	95 J	11 UJ	2100 J	13 UJ
Dibenz(a,h)anthracene	280 J	130 UJ	12 U	13 U	1200 J	15 U
Benzo(g,h,i)perylene	670	200 UJ	120 J	20 UJ	2700 J	23 UJ
Total Confident Conc. SVOC	22,158	203,590	2,142	571	420,520	3,145
Carcinogenic SVOCs in BaP Equivalents	2,826.7	1,467	215.5	61.3	19,060	139.1
Metals (mg/kg)						
Antimony	2.81 J	1.7 J	0.72 UJ	0.76 UJ	3.5 J	0.9 UJ
Arsenic	10.8	5.6	2.4	3.9	6.2	7.8
Beryllium	0.36 J	0.46 J	0.36 J	0.46 J	0.57 J	0.59 J
Cadmium	0.781	1.2	0.28 J	0.29 J	0.48 J	0.49 J
Chromium	15.8 J	24.3 J	11.6 J	14.1 J	25.3 J	21 J
Copper	102	340 J	22.4 J	25.2 J	36.7 J	12.6 J
Lead	446	147 J	127 J	186 J	473 J	11 J
Mercury	1.1 J	0.3	1.1 D	0.64	0.7 D	0.03
Nickel	18.6 J	27.8	16	18.2	29	20.5
Selenium	1.13 J	0.43 U	0.4 U	0.43 U	0.41 U	0.5 U
Silver	1.11 J	0.14 UJ	0.13 UJ	1.5 J	0.14 UJ	0.17 UJ
Zinc	311 J	220 J	74.3 J	96.1 J	107 J	53.2 J
Cyanide (mg/kg)	0.583 U	0.692 U	0.639 U	0.693 U	3.26	0.796 U
Amenable Cyanide (mg/kg)	0.7 U	0.86 U	0.583 U	0.69 U	0.64 U	0.69 U

	SB-33 4 - 5	SB-33 11 - 13	SB-33 13 - 15	SB-33 35 - 37	SB-33 39 - 41
Volatile Organic Compounds (ug/kg)					
Acetone	8.7 U	9.8 U	8.8 U	230 J	110 J
Carbon Disulfide	0.12 U	0.13 U	0.12 U	39	33
Methylene Chloride	0.79 U	0.89 U	0.8 U	4.1 J	4.4 J
2-Butanone	2.6 U	3 U	2.7 U	22 J	18 J
Benzene	4.7 J	0.27 U	0.24 U	940 D	0.3 U
Toluene	3.1 J	0.34 U	0.3 U	13	0.39 U
2-Hexanone	3.7 U	4.2 U	3.8 U	5.7 U	11 J
Ethyl Benzene	0.29 U	0.33 U	0.29 U	100	0.37 U
m/p-Xylenes	4.7 J	0.68 U	0.6 U	90	0.77 U
o-Xylene	0.5 U	0.57 U	0.51 U	50	0.64 U
Isopropylbenzene	0.43 UJ	0.49 U	0.44 U	17	0.55 U
1,2-Dichlorobenzene	0.48 UJ	0.54 U	0.48 U	U	1.5 J
1,2,4-Trichlorobenzene	0.29 UJ	0.33 U	0.29 U	0.45 U	3.4 J
Total Confident Conc. VOC	12.5	ND	ND	1,505.1	181.3
Semivolatile Organic Compounds (ug/kg)					
Naphthalene	2800 J	9.5 U	8.4 U	530 J	11 U
2-Methylnaphthalene	390 J	7.5 U	6.7 U	64 J	8.4 U
1,1-Biphenyl	280 J	13 U	11 U	17 U	15 U
Acenaphthylene	330 J	13 U	12 U	17 U	15 U
Acenaphthene	530 J	47 J	190 J	100 J	11 U
Dibenzofuran	860 J	14 U	13 U	65 J	16 U
Diethylphthalate	12 U	160 J	120 J	300 J	200 J
Fluorene	1700 J	12 U	11 U	93 J	14 U
Phenanthrene	4900 DJ	61 J	110 J	450 J	11 U
Anthracene	920 J	10 U	58 J	140 J	12 U
Carbazole	310 J	9.6 U	8.5 U	78 J	11 U
Di-n-butylphthalate	5.1 U	39000 D	260 J	3100	2200
Fluoranthene	2600 J	65 J	120 J	320 J	6.8 U
Pyrene	2800	71 J	140 J	280 J	8.7 U
Butylbenzylphthalate	13 U	15 U	13 U	76 J	16 U
Benzo(a)anthracene	1700 J	6.6 U	70 J	120 J	7.4 U
Chrysene	1300	14 U	69 J	110 J	16 U
bis(2-Ethylhexyl)phthalate	170 J	160 J	51 J	300 J	160 J
Benzo(b)fluoranthene	1300	23 U	41 J	80 J	26 U
Benzo(k)fluoranthene	680	15 U	13 U	68 J	17 U
Benzo(a)pyrene	1300	7.5 U	50 J	97 J	8.4 U
Indeno(1,2,3-cd)pyrene	210 J	11 U	9.4 U	14 U	12 U
Dibenz(a,h)anthracene	63 J	13 U	11 U	17 U	14 U
Benzo(g,h,i)perylene	310 J	19 U	17 U	25 U	21 U
Total Confident Conc. SVOC	25,453	39,564	1,279	6,371	2,560
Carcinogenic SVOCs in BaP Equivalents	1,703.8	ND	61.8	118.8	ND
Metals (mg/kg)					
Antimony	0.652 U	0.75 U	0.85 J	1 U	0.85 U
Arsenic	2.51	1.8	1.3	7.8	6.6
Beryllium	0.251 J	0.29 J	0.23 J	0.57 J	0.57 J
Cadmium	0.092 J	0.06 U	0.05 U	0.08 U	0.07 U
Chromium	13.6 J	12.1	10	21.2	20.9
Copper	41.3	46.9	80.4	14.5	11.7
Lead	127	112 J	295 J	23.4 J	10.4 J
Mercury	1.1 J	0.13 J	0.06 J	0.02 J	0.02 J
Nickel	13.2 J	14.5	11.3	22.5	20.5
Selenium	0.363 J	0.41 U	0.37 U	0.56 U	0.47 U
Silver	0.251 J	0.14 U	0.12 U	0.19 U	0.16 U
Thallium	0.382 U	0.44 U	0.39 U	0.59 U	0.72 J
Zinc	60.8 J	91.8	68.3	60.3	60.1
Cyanide (mg/kg)	0.579 U	0.662 U	0.585 U	0.899 U	0.752 U
Amenable Cyanide (mg/kg)	0.72 U	0.57 U	0.579 U	0.66 U	0.59 U

	SB-34 3 - 4	SB-34 4 - 5	SB-34 20.5 - 21	SB-34 28.5 - 29
Volatile Organic Compounds (ug/kg)				
Acetone	240 J	53 U	10 U	130 J
Carbon Disulfide	0.13 U	0.71 U	0.14 U	16
2-Butanone	63	16 U	3.2 U	3.9 U
Benzene	4.8 J	1.4 U	0.28 U	0.35 U
Ethyl Benzene	0.32 U	1.8 U	9.2	0.43 U
m/p-Xylenes	0.66 U	3.6 U	12	0.89 U
o-Xylene	0.55 U	3 U	16	0.74 U
Isopropylbenzene	0.47 U	2.6 R	9.8	0.64 U
Total Confident Conc. VOC	307.8	ND	47.0	146.0
Semivolatile Organic Compounds (ug/kg)				
Naphthalene	9.1 U	250 J	480	390 J
2-Methylnaphthalene	7.2 U	73 J	470	150 J
Acenaphthylene	13 U	59 J	14 U	17 U
Acenaphthene	9.2 U	110 J	58 J	90 J
Dibenzofuran	14 U	84 J	15 U	19 U
Fluorene	12 U	170 J	59 J	100 J
Phenanthrene	91 J	680	320 J	320 J
Anthracene	10 U	240 J	76 J	97 J
Carbazole	9.2 U	110 J	10 U	12 U
Fluoranthene	140 J	660	210 J	150 J
Pyrene	170 J	630	300 J	170 J
Benzo(a)anthracene	160 J	480	270 J	90 J
Chrysene	150 J	430 J	270 J	84 J
bis(2-Ethylhexyl)phthalate	9.6 U	11 U	580	230 J
Benzo(b)fluoranthene	150 J	390 J	330 J	30 U
Benzo(k)fluoranthene	80 J	220 J	130 J	19 U
Benzo(a)pyrene	190 J	420 J	280 J	9.7 U
Indeno(1,2,3-cd)pyrene	92 J	190 J	50 J	14 U
Dibenz(a,h)anthracene	12 U	73 J	13 UJ	17 U
Benzo(g,h,i)perylene	100 J	200 J	78 J	25 U
Total Confident Conc. SVOC	1,323	5,469	3,961	1,871
Carcinogenic SVOCs in BaP Equivalents	232.5	605.5	349	9.8
Metals (mg/kg)				
Antimony	0.73 UJ	0.8 J	0.787 U	0.963 U
Arsenic	6.3	7	1.97	7.51
Beryllium	0.62 J	0.51 J	0.303 J	0.724 J
Cadmium	0.38 J	0.42 J	0.064 U	0.749 J
Chromium	19.5 J	16.4 J	10.1	23.4
Copper	31.7 J	42.4 J	16.1	22.8
Lead	167 J	237 J	46.2	30.6
Mercury	0.36	0.51	0.06 J	0.06 J
Nickel	21.1	18.3 U	11.5	23.8
Selenium	0.4 U	0.44 U	0.855 J	2.13
Zinc	67 J	109 J	33.8	71.2
Cyanide (mg/kg)	0.645 U	0.707 U	0.7 U	0.86 U
Amenable Cyanide (mg/kg)	0.65 U	0.71 U	0.9 U	0.75 U

	SB-32 4 - 5	SB-32 11 - 13	SB-32 21 - 23
Volatile Organic Compounds (ug/kg)			
Acetone	8.9 U	48	19 J
Methylene Chloride	0.81 U	2.2 J	1.5 J
Benzene	5 J	0.28 U	0.24 U
Total Confident Conc. VOC	5.0	50.2	20.5
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	140 J	180 J	8.6 U
2-Methylnaphthalene	14 U	410 J	6.8 U
1,1-Biphenyl	23 U	59 J	12 U
Fluorene	130 J	49 J	11 U
Phenanthrene	670 J	210 J	110 J
Anthracene	200 J	49 J	9.4 U
Carbazole	82 J	9.9 U	8.7 U
Di-n-butylphthalate	10 U	1600	89 J
Fluoranthene	740 J	190 J	81 J
Pyrene	690 J	220 J	96 J
Benzo(a)anthracene	650 J	200 J	74 J
Chrysene	550 J	200 J	73 J
bis(2-Ethylhexyl)phthalate	110 J	49 J	9.1 U
Benzo(b)fluoranthene	740 J	240 J	77 J
Benzo(k)fluoranthene	320 J	100 J	55 J
Benzo(a)pyrene	770 J	240 J	110 J
Indeno(1,2,3-cd)pyrene	240 J	53 J	56 J
Benzo(g,h,i)perylene	310 J	68 J	57 J
Total Confident Conc. SVOC	6,342	4,117	878
Carcinogenic SVOCs in BaP Equivalents	941.7	292.3	132
Metals (mg/kg)			
Antimony	0.667 U	1.2 J	0.69 J
Arsenic	8.65	3.9	4.9
Beryllium	0.333 J	0.4 J	0.38 J
Cadmium	0.153 J	0.67 J	0.47 J
Chromium	11.4 J	15.1 J	13.5
Copper	37.6	23.6	29.5
Lead	382	161 J	174
Mercury	0.42 J	0.3 J	0.27
Nickel	11.3 J	13.7	15.1
Selenium	0.445 J	0.43 U	0.38 U
Silver	0.518 J	0.14 U	0.13 U
Zinc	67.5 J	53.1	44.7
Cyanide (mg/kg)	0.592 U	0.688 U	0.601 U
Amenable Cyanide (mg/kg)	0.75 U	0.81 U	0.592 U

	TAGM RSCO
Volatile Organic Compounds (ug/kg)	
Dichlorodifluoromethane	NC
Chloromethane	NC
Vinyl Chloride	200
Bromomethane	NC
Chloroethane	1900
Trichlorofluoromethane	NC
1,1,2-Trichlorotrifluoroethane	6000
1,1-Dichloroethene	400
Acetone	200
Carbon Disulfide	2700
Methyl tert-butyl Ether	120
Methyl Acetate	NC
Methylene Chloride	100
trans-1,2-Dichloroethene	300
1,1-Dichloroethane	200
Cyclohexane	NC
2-Butanone	300
Carbon Tetrachloride	600
cis-1,2-Dichloroethene	NC
Chloroform	300
1,1,1-Trichloroethane	800
Methylcyclohexane	NC
Benzene	60
1,2-Dichloroethane	200
Trichloroethene	700
1,2-Dichloropropane	NC
Bromodichloromethane	NC
4-Methyl-2-Pentanone	1000
Toluene	1500
t-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
1,1,2-Trichloroethane	NC
2-Hexanone	NC
Dibromochloromethane	NA
1,2-Dibromoethane	NC
Tetrachloroethene	1400
Chlorobenzene	1700
Ethyl Benzene	5500
m/p-Xylenes	1200
o-Xylene	600
Styrene	NC
Bromoform	NC
Isopropylbenzene	2300
1,1,2,2-Tetrachloroethane	600
1,3-Dichlorobenzene	1600
1,4-Dichlorobenzene	8500
1,2-Dichlorobenzene	7900
1,2-Dibromo-3-Chloropropane	NC
1,2,4-Trichlorobenzene	3400
Total Confident Conc. VOC	10000
Metals (mg/kg)	
Arsenic	12
Barium	600
Cadmium	1
Chromium	40
Lead	500
Mercury	0.1
Selenium	3.9
Silver	SB
PCBs (ug/kg)	1,000 (surface)/ 10,000 (subsurface)
Cyanide (mg/kg)	NC

	TAGM RSCO
Semivolatile Organic Compounds (ug/kg)	
Benzaldehyde	NC
Phenol	30 or MDL
bis(2-Chloroethyl)ether	NC
2-Chlorophenol	800
2-Methylphenol	100 or MDL
2,2-oxybis(1-Chloropropane)	NC
Acetophenone	NC
3+4-Methylphenols	900
N-Nitroso-di-n-propylamine	NC
Hexachloroethane	NC
Nitrobenzene	200 or MDL
Isophorone	4,400
2-Nitrophenol	330 or MDL
2,4-Dimethylphenol	NC
bis(2-Chloroethoxy)methane	NC
2,4-Dichlorophenol	400
Naphthalene	13,000
4-Chloroaniline	220 or MDL
Hexachlorobutadiene	NC
Caprolatam	NC
4-Chloro-3-methylphenol	240 or MDL
2-Methylnaphthalene	36,400
Hexachlorocyclopentadiene	NC
2,4,6-Trichlorophenol	NC
2,4,5-Trichlorophenol	100
1,1-Biphenyl	NC
2-Chloronaphthalene	NC
2-Nitroaniline	430 or MDL
Dimethylphthalate	2,000
Acenaphthylene	41,000
2,6-Dinitrotoluene	1,000
3-Nitroaniline	500 or MDL
Acenaphthene	50,000
2,4-Dinitrophenol	200 or MDL
4-Nitrophenol	100 or MDL
Dibenzofuran	6,200
2,4-Dinitrotoluene	1,000
Diethylphthalate	7,100
4-Chlorophenyl-phenylether	NC
Fluorene	50,000
4-Nitroaniline	NC
4,6-Dinitro-2-methylphenol	NC
N-Nitrosodiphenylamine	NC
4-Bromophenyl-phenylether	NC
Hexachlorobenzene	410
Atrazine	NC
Pentachlorophenol	1000 or MDL
Phenanthrene	50,000
Anthracene	50,000
Carbazole	NC
Di-n-butylphthalate	8,100
Fluoranthene	50,000
Pyrene	50,000
Butylbenzylphthalate	50,000
3,3-Dichlorobenzidine	NA
Benzo(a)anthracene	224 or MDL
Chrysene	400
bis(2-Ethylhexyl)phthalate	50,000
Di-n-octyl phthalate	50,000
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,100
Benzo(a)pyrene	61 or MDL
Indeno(1,2,3-cd)pyrene	3,200
Dibenz(a,h)anthracene	14 or MDL
Benzo(g,h,i)perylene	50,000
Total Confident Conc. SVOC	500,000

0 50 100
GRAPHIC SCALE

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SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer–Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933–5541

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 9

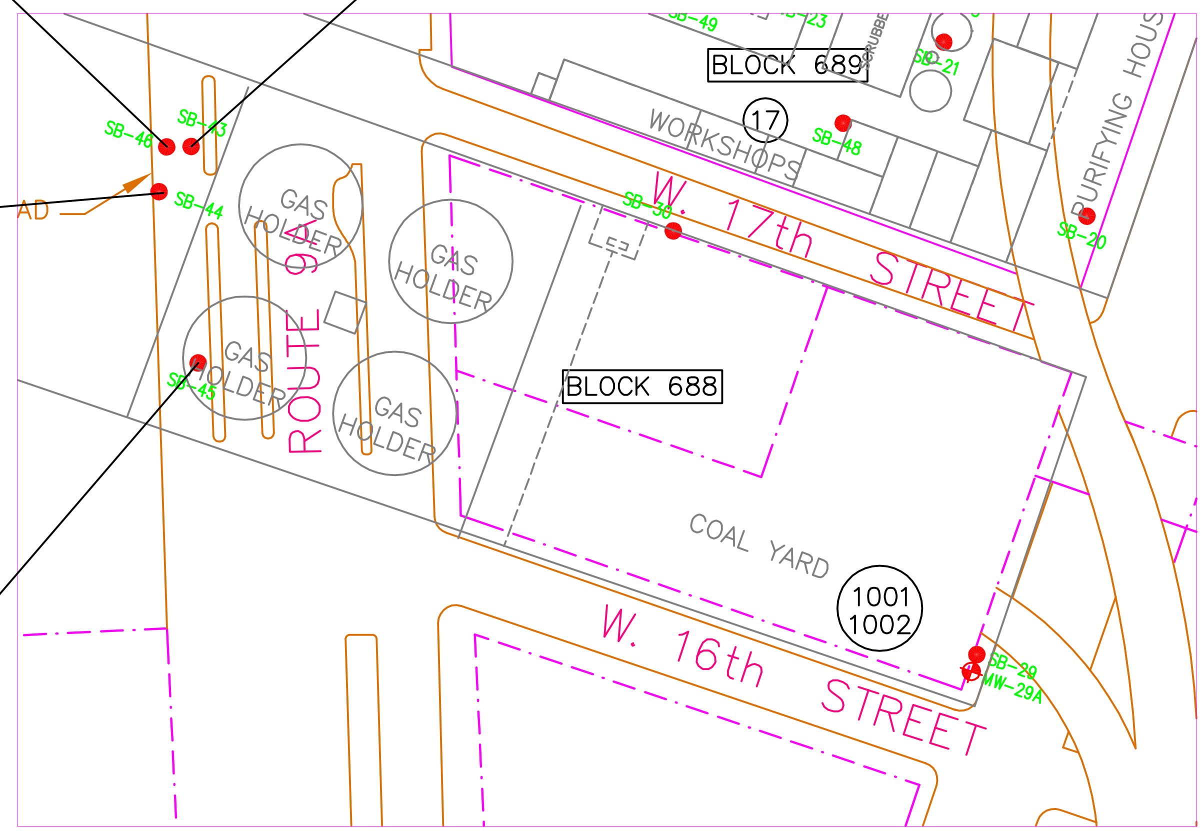
Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 5

DESIGN:
DRAWN:
CHECKED:
SHEET OF
SCALE: 1" = 50'

	SB-46 4.5 - 5.5
Volatile Organic Compounds (ug/kg)	
Methylene Chloride	6.4 J
Total Confident Conc. VOC	6.4
Semivolatile Organic Compounds (ug/kg)	
Di-n-butylphthalate	57 J
bis(2-Ethylhexyl)phthalate	100 J
Total Confident Conc. SVOC	157
Carcinogenic SVOCs in BaP Equivalents	ND
Metals (mg/kg)	
Arsenic	0.946 J
Beryllium	0.382 J
Cadmium	0.274 J
Chromium	10.7
Copper	12.1
Lead	15.4
Mercury	0.01 J
Nickel	13.5
Selenium	1.23 J
Thallium	0.416 J
Zinc	47.1
Cyanide (mg/kg)	0.643 U
Amenable Cyanide (mg/kg)	0.64 U

	B-43 7 - 7.5	SB-43 6 - 8	SB-43 8 - 10	SB-43 23 - 23.5
Volatile Organic Compounds (ug/kg)				
Acetone	33	8.5 U	9.3 U	33
Carbon Disulfide	14 J	0.11 U	0.13 U	14 J
Methylcyclohexane	0.41 U	0.4 U	14	0.41 U
Benzene	2.7 J	0.23 U	0.25 U	2.7 J
Tetrachloroethene	6.8	3.9 J	5.8 J	6.8
m/p-Xylenes	2.3 J	10	0.64 U	2.3 J
o-Xylene	0.5 U	11	2.7 J	0.5 U
Isopropylbenzene	0.43 U	3.6 J	0.46 U	0.43 U
Total Confident Conc. VOC	56.5	28.5	22.5	58.8
Semivolatile Organic Compounds (ug/kg)				
Benzaldehyde	74 U	730 U	1100 J	39 U
Naphthalene	16 U	1800 J	180 U	47
2-Methylnaphthalene	13 U	5600 J	140 U	6.8 U
Fluorene	77 J	210 U	230 U	11 U
Phenanthrene	760	840 J	4300 J	290
Anthracene	240 J	180 U	1300 J	100
Fluoranthene	1200	100 U	7000 J	620
Pyrene	1200	960 J	13000	470
Benzo(a)anthracene	*710 J*	110 U	*3600 J*	*270*
Chrysene	*570 J*	240 U	*3700 J*	230
bis(2-Ethylhexyl)phthalate	360 J	170 U	980 J	210
Benzo(b)fluoranthene	750 J	400 R	*4100 J*	280
Benzo(k)fluoranthene	340 J	260 R	*2000 J*	150
Benzo(a)pyrene	*600 J*	130 R	*3000 J*	*230*
Indeno(1,2,3-cd)pyrene	210 J	180 U	200 U	45 J
Benzo(g,h,i)perylene	230 J	330 R	860 J	67
Total Confident Conc. SVOC	7,247	9,200	44,940	3,009
Carcinogenic SVOCs in BaP Equivalents	776.1	ND	3,827	293.3
Metals (mg/kg)				
Arsenic	4.71	2.4	10.4	2.16
Beryllium	0.506 J	0.279 J	0.384 J	0.367 J
Cadmium	*1.29*	*1.26*	*3.24*	0.984
Chromium	17.4	13.2	30.5	9.62
Copper	18.6	39.5	*181*	13.7
Lead	62.1	89.9 J	*956 J*	149
Mercury	0.08	*0.76 J*	*9.3 J*	*0.18*
Nickel	13.5	12.2	19	8.71
Selenium	1.37	0.807 J	2.51	1.17 J
Silver	0.239 J	0.352 J	2.38	0.128 J
Thallium	0.474 J	0.377 U	0.407 U	0.398 U
Zinc	*112*	*108*	*383*	*109*
Cyanide (mg/kg)	0.57 U	0.58 U	0.62 U	0.6 U
Amenable Cyanide (mg/kg)	0.57 U	0.58 U	0.62 U	0.6 U

	SB-44 6.0 - 8.0	SB-44 8 - 10
Volatile Organic Compounds (ug/kg)		
Acetone	11 U	a3700 J
Methylcyclohexane	0.51 U	2200 J
Toluene	0.38 U	280 J
Ethyl Benzene	0.36 U	1900
m/p-Xylenes	0.74 U	a5900
o-Xylene	0.63 U	a5100
Isopropylbenzene	0.54 U	1000
Total Confident Conc. VOC	ND	a 20,080
Semivolatile Organic Compounds (ug/kg)		
Naphthalene	100 U	610 J
2-Methylnaphthalene	82 U	2200 J
Acenaphthene	580 J	48 J
Fluorene	130 U	71 J
Phenanthrene	3200 J	340 J
Anthracene	1300 J	84 J
Fluoranthene	3400 J	290 J
Pyrene	5200	270 J
Benzo(a)anthracene	*1500 J*	110 J
Chrysene	*1600 J*	110 J
bis(2-Ethylhexyl)phthalate	1800 J	170 J
Benzo(b)fluoranthene	*1400 J*	98 J
Benzo(k)fluoranthene	630 J	46 J
Benzo(a)pyrene	*1000 J*	*71 J*
Total Confident Conc. SVOC	21,610	4,518
Carcinogenic SVOCs in BaP Equivalents	1,312.3	93.4
Metals (mg/kg)		
Antimony	0.621 U	4.1 J
Arsenic	3.52	7.67
Beryllium	0.483 J	0.402 J
Cadmium	0.327 J	*1.46*
Chromium	18.7	18.1
Copper	23.8	*152*
Lead	46.2	*831*
Mercury	*0.16 J*	*1.3 J*
Nickel	12.5	22.5
Selenium	1.13	1.05 J
Zinc	*63.4*	*485*
Cyanide (mg/kg)	0.56 R	0.72 R
Amenable Cyanide (mg/kg)	0.56 R	0.72 R



	SB-45 7 - 8	SB-45 7 - 7.5	SB-45 31.5 - 32
Volatile Organic Compounds (ug/kg)			
Acetone	9 U	8.5 U	*210*
Methylene Chloride	8.3 J	7.4 J	19 J
Cyclohexane	0.37 U	0.35 U	18 J
2-Butanone	2.7 U	2.6 U	53 J
Methylcyclohexane	0.43 U	0.4 U	73
Benzene	0.24 U	0.23 U	*850 D*
Trichloroethene	0.39 U	5.8	2.6 U
Toluene	0.31 U	0.29 U	22 J
Tetrachloroethene	0.77 U	8.8	11 J
Ethyl Benzene	0.3 U	0.28 U	1400 D
m/p-Xylenes	0.62 U	1.1 J	250
o-Xylene	0.52 U	0.49 U	*1300 D*
Isopropylbenzene	0.45 U	0.42 U	800
Total Confident Conc. VOC	8.3	23.1	5,006
Semivolatile Organic Compounds (ug/kg)			
Naphthalene	17 U	80 U	2600
2-Methylnaphthalene	14 U	64 U	810
1,1-Biphenyl	23 U	110 U	94 J
Acenaphthylene	24 U	110 U	96 J
Acenaphthene	17 U	82 U	820
4-Nitrophenol	77 U	360 U	*210 J*
Dibenzofuran	26 U	120 U	220 J
Fluorene	22 U	110 U	630
Phenanthrene	760 J	560 J	3700
Anthracene	19 U	88 U	820
Carbazole	17 U	82 U	210 J
Fluoranthene	500 J	620 J	1500
Pyrene	1000	700 J	1700
Benzo(a)anthracene	*390 J*	56 U	*740*
Chrysene	*510 J*	120 U	*650*
bis(2-Ethylhexyl)phthalate	18 U	85 U	67 J
Benzo(b)fluoranthene	240 J	200 U	550
Benzo(k)fluoranthene	140 J	130 U	240 J
Benzo(a)pyrene	*230 J*	64 U	*530 J*
Indeno(1,2,3-cd)pyrene	120 J	89 U	270 J
Benzo(g,h,i)perylene	96 J	160 U	250 J
Total Confident Conc. SVOC	3,986	1,880	16,707
Carcinogenic SVOCs in BaP Equivalents	311.5	ND	694.9
Metals (mg/kg)			
Arsenic	*15.1*	7.99	*20.3*
Beryllium	0.373 J	0.299 J	0.826
Cadmium	*1.79*	0.242 J	*2.25*
Chromium	16	13.3	27.3
Copper	46.8	33.4	*73.2*
Lead	269	217	206
Mercury	*0.76*	*1.9 J*	*1.4*
Nickel	24.7	20.4	*25.8*
Selenium	2.44	0.911 J	2.05
Silver	0.967 J	0.559 J	1.23 J
Thallium	0.376 U	0.393 J	0.545 U
Zinc	*147*	*105*	*159*
Cyanide (mg/kg)	0.57 U	0.601 U	0.83 U
Amenable Cyanide (mg/kg)	0.57 U	0.6 U	0.83 U

	TAGM RSCO
Volatile Organic Compounds (ug/kg)	
Dichlorodifluoromethane	NC
Chloromethane	NC
Vinyl Chloride	200
Bromomethane	NC
Chloroethane	1900
Trichlorofluoromethane	NC
1,1,2-Trichlorotrifluoroethane	6000
1,1-Dichloroethene	400
Acetone	200
Carbon Disulfide	2700
Methyl tert-butyl Ether	120
Methyl Acetate	NC
Methylene Chloride	100
trans-1,2-Dichloroethene	300
1,1-Dichloroethane	200
Cyclohexane	NC
2-Butanone	300
Carbon Tetrachloride	600
cis-1,2-Dichloroethene	NC
Chloroform	300
1,1,1-Trichloroethane	800
Methylcyclohexane	NC
Benzene	60
1,2-Dichloroethane	200
Trichloroethene	700
1,2-Dichloropropane	NC
Bromodichloromethane	NC
4-Methyl-2-Pentanone	1000
Toluene	1500
t-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
1,1,2-Trichloroethane	NC
2-Hexanone	NC
Dibromochloromethane	NA
1,2-Dibromoethane	NC
Tetrachloroethene	1400
Chlorobenzene	1700
Ethyl Benzene	5500
m/p-Xylenes	1200
o-Xylene	600
Styrene	NC
Bromoform	NC
Isopropylbenzene	2300
1,1,2,2-Tetrachloroethane	600
1,3-Dichlorobenzene	1600
1,4-Dichlorobenzene	8500
1,2-Dichlorobenzene	7900
1,2-Dibromo-3-Chloropropane	NC
1,2,4-Trichlorobenzene	3400
Total Confident Conc. VOC	10000
Metals (mg/kg)	
Arsenic	12
Barium	600
Cadmium	1
Chromium	40
Lead	500
Mercury	0.1
Selenium	3.9
Silver	SB
PCBs (ug/kg)	1,000 (surface)/ 10,000 (subsurface)
Cyanide (mg/kg)	NC

	TAGM RSCO
Semivolatile Organic Compounds (ug/kg)	
Benzaldehyde	NC
Phenol	30 or MDL
bis(2-Chloroethyl)ether	NC
2-Chlorophenol	800
2-Methylphenol	100 or MDL
2,2-oxybis(1-Chloropropane)	NC
Acetophenone	NC
3+4-Methylphenols	900
N-Nitroso-di-n-propylamine	NC
Hexachloroethane	NC
Nitrobenzene	200 or MDL
Isophorone	4,400
2-Nitrophenol	330 or MDL
2,4-Dimethylphenol	NC
bis(2-Chloroethoxy)methane	NC
2,4-Dichlorophenol	400
Naphthalene	13,000
4-Chloroaniline	220 or MDL
Hexachlorobutadiene	NC
Caprolatam	NC
4-Chloro-3-methylphenol	240 or MDL
2-Methylnaphthalene	36,400
Hexachlorocyclopentadiene	NC
2,4,6-Trichlorophenol	NC
2,4,5-Trichlorophenol	100
1,1-Biphenyl	NC
2-Chloronaphthalene	NC
2-Nitroaniline	430 or MDL
Dimethylphthalate	2,000
Acenaphthylene	41,000
2,6-Dinitrotoluene	1,000
3-Nitroaniline	500 or MDL
Acenaphthene	50,000
2,4-Dinitrophenol	200 or MDL
4-Nitrophenol	100 or MDL
Dibenzofuran	6,200
2,4-Dinitrotoluene	1,000
Diethylphthalate	7,100
4-Chlorophenyl-phenylether	NC
Fluorene	50,000
4-Nitroaniline	NC
4,6-Dinitro-2-methylphenol	NC
N-Nitrosodiphenylamine	NC
4-Bromophenyl-phenylether	NC
Hexachlorobenzene	410
Atrazine	NC
Pentachlorophenol	1000 or MDL
Phenanthrene	50,000
Anthracene	50,000
Carbazole	NC
Di-n-butylphthalate	8,100
Fluoranthene	50,000
Pyrene	50,000
Butylbenzylphthalate	50,000
3,3-Dichlorobenzidine	NA
Benzo(a)anthracene	224 or MDL
Chrysene	400
bis(2-Ethylhexyl)phthalate	50,000
Di-n-octyl phthalate	50,000
Benzo(b)fluoranthene	1,100
Benzo(k)fluoranthene	1,100
Benzo(a)pyrene	61 or MDL
Indeno(1,2,3-cd)pyrene	3,200
Dibenz(a,h)anthracene	14 or MDL
Benzo(g,h,i)perylene	50,000
Total Confident Conc. SVOC	500,000

0 50 100
GRAPHIC SCALE

● SOIL BORING LOCATION

SB-44 = SOIL BORING NUMBER
(8-10) = SAMPLE INTERVAL IN FEET BELOW GROUND SURFACE

MONITORING WELL LOCATION (e.g., MW-29A)

HISTORIC FEATURES

NOTE: ANALYTICAL DATA IS PRESENTED FOR THE SOIL BORINGS IN THE DESIGNATED AREA ONLY.

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer-Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-5541

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 10
Summary of VOCs, SVOCs, and Inorganics Detected in Subsurface Soil – Area 6

DESIGN:
DRAWN:
CHECKED:
SHEET OF
SCALE: 1" = 50'

MW-34A

Volatile Organic Compounds (ug/L)	
Acetone	76
Total Confident Conc. VOC	76
Semivolatile Organic Compounds (ug/L)	
Naphthalene	11
2-Methylnaphthalene	13
1,1-Biphenyl	1.7 J
N-Nitrosodiphenylamine	1.3 J
Di-n-butylphthalate	15 B
Total Confident Conc. SVOC	42
Metals (ug/L)	
Arsenic	7.5 J
Chromium	1.7 J
Copper	16.9 J
Lead	3.3 J
Mercury	0.08 J
Nickel	2.3 J
Zinc	10.5 J
Cyanide (mg/L)	0.01 U
Amenable Cyanide (mg/L)	0.01 U

MW-31

Volatile Organic Compounds (ug/L)	
Total Confident Conc. VOC	ND
Semivolatile Organic Compounds (ug/L)	
Acenaphthene	2.2 J
Di-n-butylphthalate	12 B
Total Confident Conc. SVOC	14
Metals (ug/L)	
Chromium	0.55 J
Copper	9.6 J
Lead	14.6
Nickel	4.4 J
Zinc	46.4
Cyanide (mg/L)	0.016
Amenable Cyanide (mg/L)	0.01 U

MW-45A

Volatile Organic Compounds (ug/L)	
Total Confident Conc. VOC	ND
Semivolatile Organic Compounds (ug/L)	
Di-n-butylphthalate	10 B
Total Confident Conc. SVOC	10
Metals (ug/L)	
Chromium	4.3 J
Copper	32.2
Mercury	0.08 J
Nickel	2.2 J
Selenium	3.1 J
Zinc	71.4
Cyanide (mg/L)	0.01 U
Amenable Cyanide (mg/L)	0.01 U

MW-12B

Volatile Organic Compounds (ug/L)	
cis-1,2-Dichloroethene	2.9 J
Benzene	65
Trichloroethene	2.6 J
Total Confident Conc. VOC	70.5
Semivolatile Organic Compounds (ug/L)	
Di-n-butylphthalate	7.9 JB
Total Confident Conc. SVOC	8
Metals (ug/L)	
Arsenic	5.8 J
Chromium	1.7 J
Copper	12.7 J
Mercury	0.05 J
Nickel	12.6 J
Zinc	8.2 J
Cyanide (mg/L)	0.01
Amenable Cyanide (mg/L)	0.01 U

MW-12A MW-22

Volatile Organic Compounds (ug/L)		
Methyl tert-butyl Ether	3.9 J	3.9 J
Benzene	1.2 J	0.39 U
Total Confident Conc. VOC	5.1	3.9
Semivolatile Organic Compounds (ug/L)		
Di-n-butylphthalate	8.5 JB	8.9 JB
Total Confident Conc. SVOC	9	9
Metals (ug/L)		
Beryllium	0.09 U	0.12 J
Chromium	5.2 J	8 J
Copper	5.9 J	6.3 J
Nickel	1.6 U	1.9 J
Thallium	3.1 U	5.2 J
Cyanide (mg/L)	0.013	0.012
Amenable Cyanide (mg/L)	0.01 U	0.01 U

MW-24A

Volatile Organic Compounds (ug/L)	
Benzene	19
Toluene	1.3
Ethyl Benzene	4.4
m/p-Xylenes	2.1 J
o-Xylene	3.6 J
Isopropylbenzene	2 J
Total Confident Conc. VOC	34
Semivolatile Organic Compounds (ug/L)	
Naphthalene	18
2-Methylnaphthalene	100 D
Acenaphthene	59
Fibenzofuran	39
Fluorene	36
Phenanthrene	36
Anthracene	11
Carbazole	56
Di-n-butylphthalate	14 B
Fluoranthene	9 J
Pyrene	7 J
bis(2-Ethylhexyl)phthalate	4.7 J
Total Confident Conc. SVOC	372
Metals (ug/L)	
Lead	5.3
Silver	2.1 J
Cyanide (mg/L)	0.048
Amenable Cyanide (mg/L)	0.01 U

MW-29A

Volatile Organic Compounds (ug/L)	
cis-1,2-Dichloroethene	0.7 J
Total Confident Conc. VOC	1
Semivolatile Organic Compounds (ug/L)	
Di-n-butylphthalate	6.9 JB
bis(2-Ethylhexyl)phthalate	1.8 J
Total Confident Conc. SVOC	9
Metals (ug/L)	
Arsenic	12
Beryllium	0.11 J
Lead	4.1 J
Thallium	4.2 J
Cyanide (mg/L)	0.01 U
Amenable Cyanide (mg/L)	0.01 U

MW-5B

Volatile Organic Compounds (ug/L)	
Methyl tert-butyl Ether	2.3 J
Total Confident Conc. VOC	2.3
Semivolatile Organic Compounds (ug/L)	
Total Confident Conc. SVOC	ND
Metals (ug/L)	
Antimony	3.4 J
Arsenic	4.2 J
Beryllium	0.11 J
Cyanide (mg/L)	0.01 U
Amenable Cyanide (mg/L)	0.01 U

MW-7A

Volatile Organic Compounds (ug/L)	
Cyclohexane	0.55 J
Benzene	20
Isopropylbenzene	2.3 J
Total Confident Conc. VOC	22.9
Semivolatile Organic Compounds (ug/L)	
Di-n-butylphthalate	9.6 JB
Total Confident Conc. SVOC	10
Metals (ug/L)	
Arsenic	8.2 J
Beryllium	0.18 J
Chromium	1.2 J
Copper	8 J
Lead	3.9 J
Silver	1.9 J
Zinc	8.8 J
Cyanide (mg/L)	0.01 U
Amenable Cyanide (mg/L)	0.01 U

MW-5A

Volatile Organic Compounds (ug/L)	
Acetone	1102
2-Butanone	37 J
Benzene	36
Toluene	3.6 J
m/p-Xylenes	900
o-Xylene	320
Total Confident Conc. VOC	2,145.6
Semivolatile Organic Compounds (ug/L)	
2,4-Dimethylphenol	500 D
Naphthalene	170 D
2-Methylnaphthalene	16
Di-n-butylphthalate	8.3 JB
bis(2-Ethylhexyl)phthalate	2.6 J
Total Confident Conc. SVOC	317
Metals (ug/L)	
Arsenic	27.6
Beryllium	0.14 J
Copper	46.3
Lead	44.6
Mercury	0.04 J
Zinc	2.1 J
Cyanide (mg/L)	0.14
Amenable Cyanide (mg/L)	0.14

TOGS Class GA

Volatile Organic Compounds (ug/L)	
Dichlorodifluoromethane	5
Chloromethane	5
Vinyl Chloride	2
Bromomethane	5
Chloroethane	5
Trichlorofluoromethane	5
1,1,2-Trichlorotrifluoroethane	NA
1,1-Dichloroethene	5
Acetone	50
Carbon Disulfide	NA
Methyl tert-butyl Ether	10
Methyl Acetate	NA
Methylene Chloride	5
trans-1,2-Dichloroethene	5
1,1-Dichloroethane	5
Cyclohexane	NA
2-Butanone	NA
Carbon Tetrachloride	5
cis-1,2-Dichloroethene	5
Chloroform	7
1,1,1-Trichloroethane	5
Methylcyclohexane	NA
Benzene	1
1,2-Dichloroethane	5
Trichloroethene	5
1,2-Dichloropropane	1
Bromodichloromethane	50
4-Methyl-2-Pentanone	NA
Toluene	5
1,1,3-Dichloropropene	0
cis-1,3-Dichloropropene	0
1,1,2-Trichloroethane	5
2-Hexanone	50
Dibromochloromethane	50
1,2-Dibromoethane	NA
Tetrachloroethene	5
Chlorobenzene	5
Ethyl Benzene	5
m/p-Xylenes	5
o-Xylene	5
Styrene	5
Bromoform	50
Isopropylbenzene	5
1,1,2,2-Tetrachloroethane	5
1,3-Dichlorobenzene	3
1,4-Dichlorobenzene	3
1,2-Dichlorobenzene	3
1,2-Dibromo-3-Chloropropane	0
1,2,4-Trichlorobenzene	5
Total Confident Conc. VOC	NA
Metals (ug/L)	
Arsenic	25
Barium	1,000
Beryllium	3
Chromium	50
Lead	25
Mercury	0.7
Selenium	10
Silver	50
PCBs (ug/L)	NA
Cyanide (mg/L)	200
Cyanide-Amenable (mg/L)	NA

TOGS Class GA

Semivolatile Organic Compounds (ug/L)	
Benzaldehyde	NA
Phenol	1
bis(2-Chloroethyl)ether	1
2-Chlorophenol	NA
2-Methylphenol	NA
2,2'-oxybis(1-Chloropropane)	
Acetophenone	NA
3,4-Methylphenols	NA
N-Nitroso-di-n-propylamine	NA
Hexachloroethane	5
Nitrobenzene	0.4
Isophorone	50
2-Nitrophenol	NA
2,4-Dimethylphenol	50
bis(2-Chloroethoxy)methane	5
2,4-Dichlorophenol	5
Naphthalene	10
4-Chloroaniline	5
Hexachlorobutadiene	0.5
Caprolactam	NA
4-Chloro-3-methylphenol	NA
2-Methylnaphthalene	NA
Hexachlorocyclopentadiene	5
2,4,6-Trichlorophenol	NA
2,4,5-Trichlorophenol	NA
1,1-Biphenyl	5
2-Chloronaphthalene	10
2-Nitroaniline	5
Dimethylphthalate	50
Acenaphthylene	NA
2,6-Dinitrotoluene	5
3-Nitroaniline	5
Acenaphthene	20
2,4-Dinitrophenol	10
4-Nitrophenol	NA
Dibenzofuran	NA
2,4-Dinitrotoluene	5
Diethylphthalate	50
4-Chlorophenyl-phenylether	NA
Fluorene	50
4-Nitroaniline	5
4,6-Dinitro-2-methylphenol	NA
N-Nitrosodiphenylamine	50
4-Bromophenyl-phenylether	NA
Hexachlorobenzene	0.04
Atrazine	7.5
Pentachlorophenol	1
Phenanthrene	50
Anthracene	50
Carbazole	NA
Di-n-butylphthalate	50
Fluoranthene	50
Pyrene	50
butylbenzylphthalate	50
3,3'-Dichlorobenzidine	5
Benzo(a)anthracene	0.002
Chrysene	0.002
bis(2-Ethylhexyl)phthalate	5
Di-n-octyl phthalate	NA
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Benzo(a)pyrene	ND
Indeno(1,2,3-cd)pyrene	0.002
Dibenz(a,h)anthracene	NA
Benzo(g,h,i)perylene	NA
Total Confident Conc. SVOC	NA

SOIL BORING LOCATION

SB-44 = SOIL BORING NUMBER

MONITORING WELL LOCATION (e.g., MW-29A)

HISTORIC FEATURES

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer–Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-5541

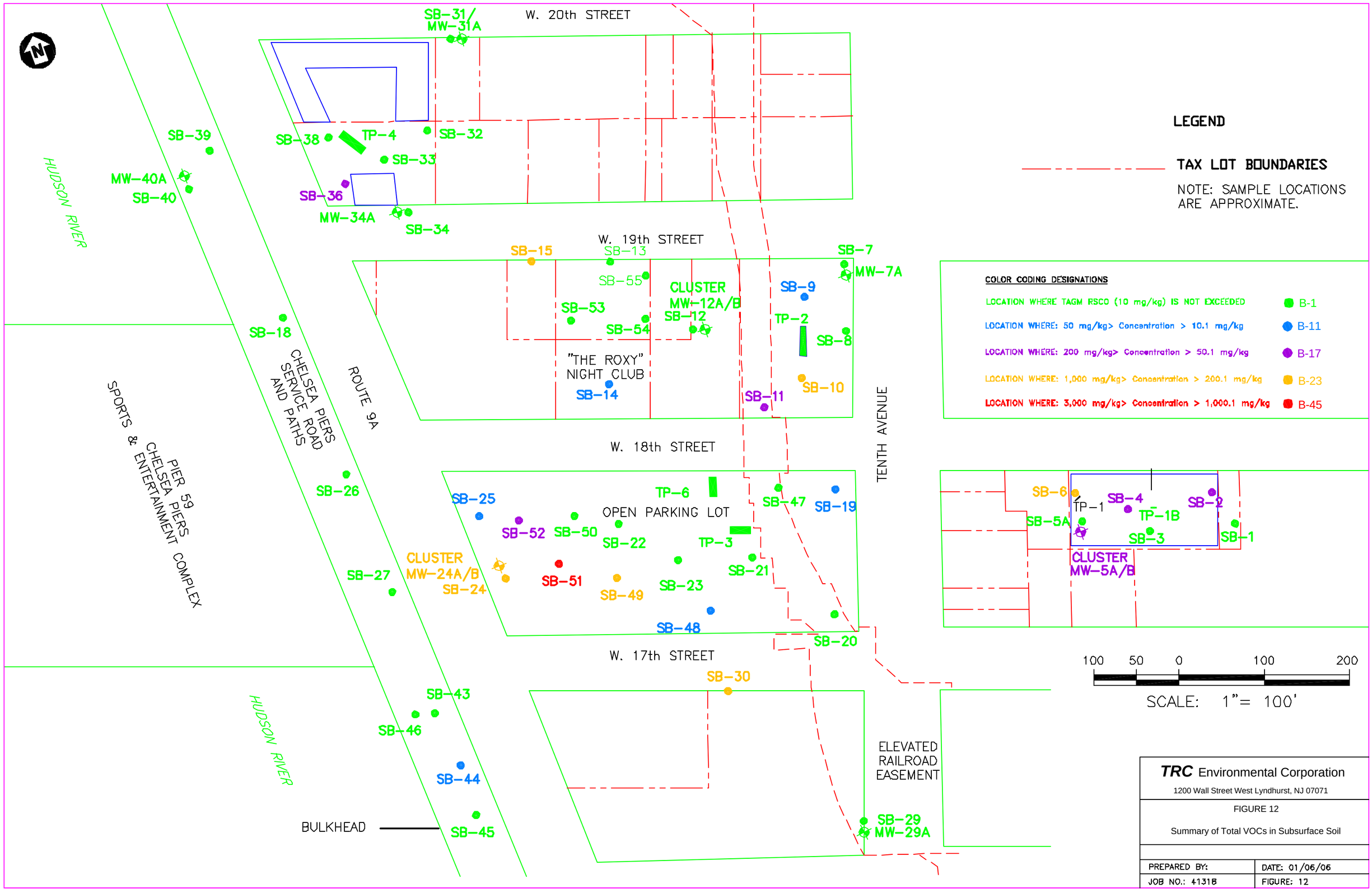
CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

FIGURE 11

Summary of VOCs, SVOCs, and Inorganics Detected in Groundwater

DESIGN:		SHEET	OF
DRAWN:		SCALE: 1=50	
CHECKED:			

\\00000\C1-00000



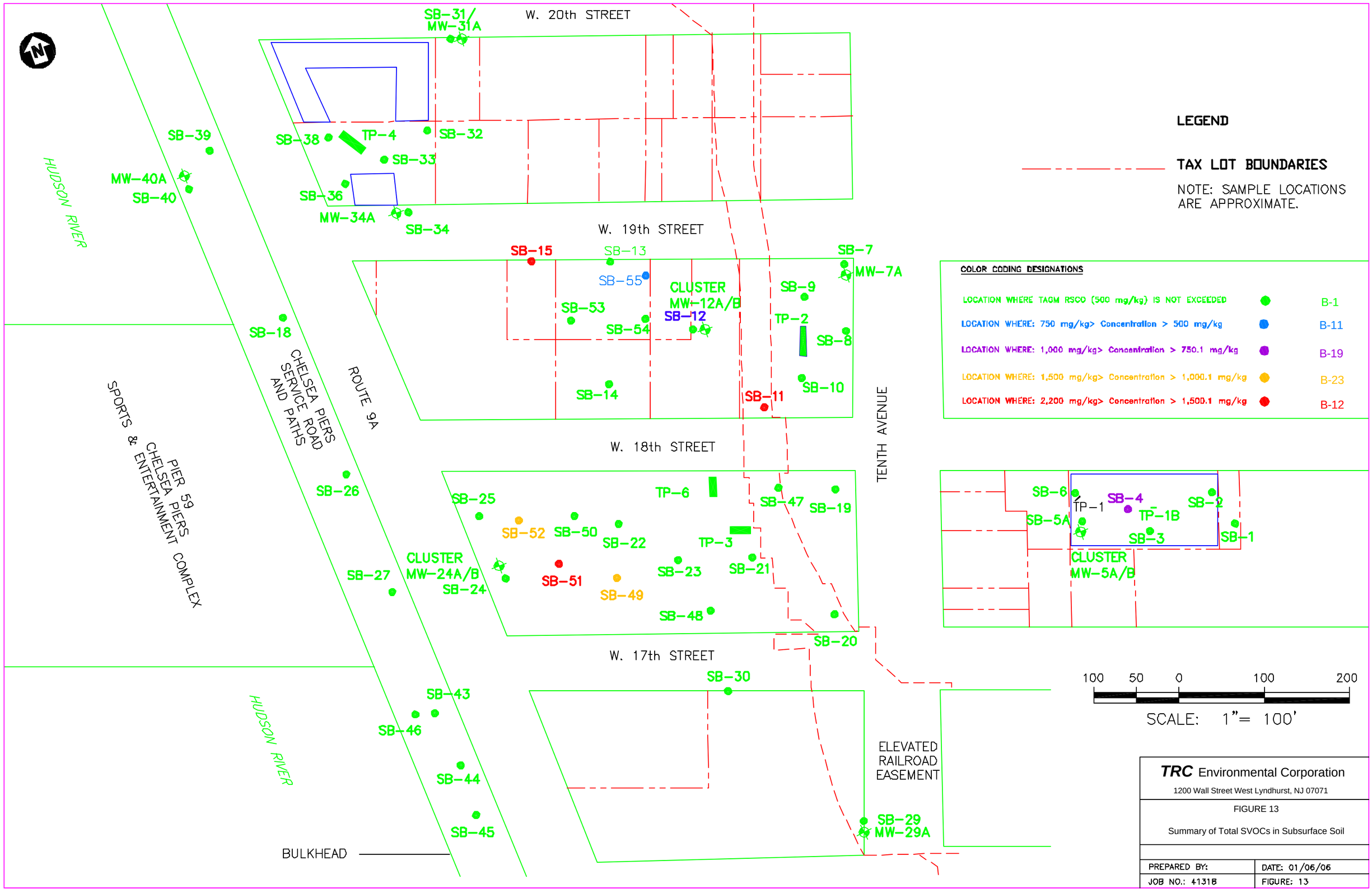
TRC Environmental Corporation

1200 Wall Street West Lyndhurst, NJ 07071

FIGURE 12

Summary of Total VOCs in Subsurface Soil

PREPARED BY:	DATE: 01/06/06
JOB NO.: 41318	FIGURE: 12



TRC Environmental Corporation

1200 Wall Street West Lyndhurst, NJ 07071

FIGURE 13

Summary of Total SVOCs in Subsurface Soil

PREPARED BY:	DATE: 01/06/06
JOB NO.: 41318	FIGURE: 13

W. 20th STREET

W. 19th STREET

W. 18th STREET

W. 17th STREET

BLOCK 691

BLOCK 690

BLOCK 689

BLOCK 688

BLOCK 716

BLOCK 715

PARKING

ROUTE 9A

10th AVENUE

General Groundwater Flow Direction

2 FT

1.5 FT

1 FT

0.5 FT

0 FT

– 0.5 FT

– 1 FT

– 1.5 FT

CHELSEA PIERS SPORTS & ENTERTAINMENT COMPLEX

SB-39 SB-40 MW-40A SB-18 SB-26 SB-27 SB-45 SB-44 SB-46 SB-43 SB-36 SB-38 SB-90 SB-91 SB-92 SB-31 MW-31A SB-32 TP-4 SB-33 SB-34 MW-34A SB-52 SB-50 SB-25 SB-22 SB-24 MW-24B MW-24A SB-51 SB-49 SB-23 SB-21 TP-6 TP-3 SB-47 SB-19 SB-48 SB-20 SB-30 SB-53 SB-54 SB-55 SB-15 SB-13 SB-14 MW-12B MW-12A SB-11 SB-9 TP-2 SB-8 SB-10 SB-7 MW-7A SB-29 MW-29A SB-1 SB-2 SB-3 SB-4 TP-1 SB-6 TP-18 SB-5 MW-5B MW-5A

1 50 43 41 39 37 35 33 29 27 25 24 22 19 15 17 11 54 46 42 40 12 20 63 64 3 2 1 5 7 10 60 59 50

Soil Boring Location

Monitoring Well Location

0 100 200

GRAPHIC SCALE

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer-Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933-3541

CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.

FIGURE 14

Groundwater Elevation Contour and Flow Map fo
the Unconfined Aquifer

DESIGN:		SHEET OF	
DRAWN:		SCALE: 1" = 100'	
CHECKED:			

BORING No.: SB-1

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SE of Former Gas Holder #1	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		21.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/14/2005	5/14/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	6.5'	N/A

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0'-0.3': CONCRETE and rebar. 0.3'-2.0': Fill-Brown f to m SAND, GRAVEL, rock fragments, slag and coal fragments.	0.3'-2': N/O, N/S PID (headspace) = 3.7 ppm max.
				3		2.0'-4.0': Fill-Lt brown very f SAND.	2'-3': N/O, N/S PID (headspace) = 2.5 ppm max. 3'-4': N/O, N/S PID (headspace) = 3.5 ppm max.
				5		4.0'-5.0': Fill-Brown f to m SAND. Sample collected: W18STMGP-SB2-57 5.0'-6.0': No recovery. 6.0'-6.5': Hard rock.	4'-5': N/O, N/S PID (headspace) = 1.8 ppm max.
				7		E.O.B. at 6.5' bgs (Refusal due to rock at 6.0' bgs)	
				9			
				11			
				13			
				15			
				17			

TRC

BORING No.: SB-2

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside Former Gas Holder #1	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		12.98/ NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Amy Klimek	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/6/2005	5/6/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	20.5'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0'-0.8': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Lt brown-gray f to c SAND, GRAVEL and rock (schist) fragments.	0.8'-2': Strong gasoline-like odor, N/S
						Sample collected: W18STMGP-SB2-11.5	PID = 22.1 ppm max.
						2.0'-5.0': Fill-Brown f to c SAND, some gravel, rock (schist) fragments, cobbles, tr silt and brick fragments.	2'-3': N/O, N/S
				3			PID = 11.8 ppm max.
							3'-4': N/O, N/S
							PID = 8.0 ppm max.
							4'-5': N/O, N/S
				5			PID = 5.1 ppm max.
						5.0'-5.4': Fill-Dk brown SILT, f SAND, CLAY and some gravel.	5'-7': N/O, N/S
	1	0.4'				Sample collected: W18STMGP-SB2-57	PID = 5.7 ppm max.
				7		7.0'-7.4': Fill-Dk brown m SAND, some silty, gravel, cobbles and tr clay.	7'-9': N/O, N/S
	2	0.4'					PID = 1.0 ppm max.
				9		9.0'-9.7': Fill-Dk brown-black SILT, f SAND, some clay, asphalt and gravel.	9'-11': N/O, N/S
	3	0.7'					PID = 1.0 ppm max.
				11		11.0'-11.9': Fill-Dk brown-black SILT, f SAND, some cobbles and intermittent clay.	11'-13': N/O, N/S
	4	0.9'					PID = 0.1 ppm max.
				13	▼	13.0'-13.5': Fill-Dk brown-black SILT, f SAND, some cobbles, gravel and asphalt.	13'-15': Petroleum odor, N/S
	5	1.0'				Sample collected: W18STMGP-SB2-1315	PID = 0.8 ppm max.
						13.5'-14.0': Fill-Dk brown SILT, f SAND, some clay and tr m sand.	
				15		15.0'-15.7': Fill-Dk brown SILT, f SAND and some clay.	15'-17': MGP-related odor, N/S
	6	0.7'					PID = 0.5 ppm max.
				17		17.0'-17.5': Fill-Dk brown-black SILT, f SAND, some clay, cobbles, wood fibers and mica schist fragments.	17'-19': Strong MGP-related odor, N/S
	7	0.5'					PID = 124 ppm max.

TRC

BORING No.: SB-2

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside Former Gas Holder #1	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		12.98/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Amy Klimek	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/6/2005	5/6/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	20.5'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
	8	0.5'		19		19.0'-19.5': Fill-Black SILT, f SAND, some cobbles, tr clay, organic matter and wood fibers.	19'-21': Strong MGP-related odor, N/S
						Sample collected: W18STMGP-SB2-1920.5	PID = 19.2 ppm max.
				21		E.O.B. at 20.5' bgs (Refusal due to rocks. Possible bottom of Former Gas Holder #2 at 20.5' bgs)	
				23			
				25			
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-3

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	SE of Former Gas Holder #2 and SW of Former Gas Holder #1
ADDRESS		**ELEVATION/DATUM**
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.60/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Amy Klimek
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Simco Earthprobe 200	N/A	5/6/2005 / 5/6/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	20' / 13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.8': CONCRETE and rebar.	
				1		0.8'-1': Fill-Large (>3'x5' surface area) piece of former brick structure with mortar joints lying horizontal.	1'-2': N/O, N/S
						1.0'-5.0': Fill-Brown f to m SAND, ltl c sand, gravel and brick chunks.	PID = 0.4 ppm max.
							2'-3': N/O, N/S
				3			PID = 1.0 ppm max.
							3'-4': N/O, N/S
						Sample collected: W18STMGP-SB3-33.5	PID = 2.0 ppm max.
							4'-5': N/O, N/S
				5			PID = 1.6 ppm max.
						5.0'-7.8': Fill-Brown SILT, f to m SAND, c GRAVEL, some cobbles and rock rock fragments.	5'-7': N/O, N/S
	1	0.7'				Sample collected: W18STMGP-SB3-57	PID = 0.1 ppm max.
				7			7'-9': N/O, N/S
	2	0.8'					PID = 0.2 ppm max.
				9		9.0'-9.25': Fill-Red-brown SILT, f SAND and some cobbles.	9'-11': N/O, N/S
	3	1.0'				9.25'-10.0': Fill-Brown SILT and f SAND.	PID = 0.1 ppm max.
				11		11.0'-13.0': Fill-Brown silty CLAY and ltl f sand.	11'-13': N/O, N/S
	4	2.0'					PID = 1.6 ppm max.
				13	▼	13.0'-13.8': Fill-Dk brown-gray SILT, f to m SAND and tr clay.	13'-15': Strong gasoline-like odor, N/S
	5	0.8'				Sample collected: W18STMGP-SB3-1315	PID = 63.0 ppm max.
				15		15.0'-16.0': Fill-Brown GRAVEL, m SAND and tr silt.	15'-17': N/O, N/S
	6	1.0'					PID = 1.5 ppm max.
				17		17.0'-18.4': Fill-Brown GRAVEL, f to c SAND, tr silt and clay.	17'-19': N/O, N/S
	7	1.4'					PID = 0.2 ppm max.

TRC

BORING No.: SB-3

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside Former Gas Holder #1	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.60/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Amy Klimek	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/6/2005	5/6/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	20.5'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				19		Sample collected: W18STMGP-SB3-1719	
	8	1.0'				19.0'-20.0': Fill-Brown GRAVEL, f to c SAND, tr silt and clay.	19'-20': N/O, N/S
							PID = 2.1 ppm max.
						E.O.B. at 20' bgs	
				21			
				23			
				25			
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-4

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.40/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/5/2005	5/5/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	21'	8'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
						0'-0.8': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Gray f SAND, some m sand, gravel, tr c sand and rock fragments.	0.8'-2': N/O, N/S PID = 3.6 ppm max.
				3		2.0'-3.0': Fill-Lt brown f to c SAND, some silt, gravel, brick and rock fragments.	2'-3': N/O, N/S PID = 1.4 ppm max.
						3.0'-5.0': Fill-M brown SILT, f SAND, some m sand, tr c sand, gravel, rock fragments and cobbles.	3'-4': N/O, N/S PID = 1.1 ppm max. 4'-5': N/O, N/S PID = 0.5 ppm max.
				5		Sample collected: W18STMGP-SB4-4.55.5	5'-6.5': N/O, N/S
						5.0'-6.5': Fill-Brown f to c SAND, some silt, gravel, rock (schist) fragments and brick fragments.	6.5'-9': Strong gasoline-like odor, black staining, sheen
	1	2.5'		7		6.5'-7.5': Dk gray SILT, f SAND, some gravel, tr clay, pockets of c sand, and rock (schist) fragments.	PID = 5.7 ppm max.
					▼	Sample collected: W18STMGP-SB4-79	
				9		9.0'-9.5': Fill-Dk gray f to m SAND, some c sand, tr gravel and pockets of silt.	9'-11': Sl gasoline-like odor, N/S, tr sheen
	2	0.5'					PID = 0.9 ppm max.
				11		11.0'-11.4': Fill-Dk gray f to c SAND, some silt and gravel.	11'-13': Sl petroleum odor, tr black staining, tr sheen
	3	0.4'					PID = 4.4 ppm max.
				13		13.0'-13.5': Fill-Dk gray c SAND, some m sand, gravel, rock (schist) fragments and tr silt.	13'-15': Petroleum odor, N/S, sheen
	4	0.5'					PID = 30.5 ppm max.
				15		15.0'-15.8': Fill-Gray-brown f SAND, some rock (schist) fragments, tr silt and m to c sand.	15'-17': Sl MGP-related odor, N/S, sheen
	5	0.8'					PID = 9.8 ppm max.
				17		17.0'-17.7': Fill-Brown f to m SAND, SILT, some rock (schist) fragments, and tr c sand.	17'-19': MGP-related odor, N/S, sheen
	7	0.7'					PID = 12.9 ppm max.

TRC

BORING No.: SB-4

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.40/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Simco Earthprobe 200	N/A	5/5/2005	5/5/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2' discrete sampler	N/A	21'	8'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
		8	0.6'		19		19.0'-19.6': Fill-Black stained SILT, f to c SAND, GRAVEL, brick and rock chunks. Sample collected: W18STMGP-SB4-1921	19'-21': Very strong MGP-related odor, heavy black staining, visible OLM PID = 3,124 ppm max.
					21		E.O.B. at 21' bgs (Refusal due to rocks and brick. Possible bottom of Former Gas Holder #2 at 21' bgs)	
					23			
					25			
					27			
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-5

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.80/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck/Kevin Kegel	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/2/2005	6/3/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' & 3' macrocore sampler	N/A	31'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.2': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Brown f to m SAND, some c sand, gravel, ltl silt, brick fragments and tr wood fibers.	0.2'-2': N/O, N/S PID = 1.7 ppm max.
				3		2.0'-3.0': Fill-Brown f to c SAND, some gravel, pebbles, tr silt and brick fragments.	2'-3': N/O, N/S PID = 1.3 ppm max.
						3.0'-4.5': Fill-Brown f to c SAND, GRAVEL and brick fragments.	3'-4': N/O, N/S PID = 1.7 ppm max.
						Sample collected: W18STMGP-SB5A-3.44	4'-5': N/O, N/S PID = 3.9 ppm max.
				5		5.0'-15.0': Drilled to 15' bgs and began sampling at 15' bgs. Soil descriptions recorded during installation of MW-5B were used for SB-5.	5'-6.5': N/O, N/S
	1	0.3'				5.0'-5.3': Fill-Brown SILT, f to m SAND, some c sand, ltl gravel and clay.	5'-10': N/O, N/S PID = 28.4 ppm max.
				7	▼		
				9			
						10.0'-10.9': Fill-Lt to dk brown SILT, f to c SAND, GRAVEL and brick fragments.	10'-11': Strong petroleum-like odor, sheen, N/S
	2	1.4'		11		10.9'-11.4': Fill-Lt brown f to c SAND and GRAVEL.	PID = 387 ppm max.
							11'-15': Very strong petroleum-like odor, black staining, sheen PID = 4,085 ppm max.
				13			
				15		15.0'-17.5': Wood timbers.	15'-19': Strong petroleum-like odor, sheen black staining on wood, tr NAPL.
	3	5.0'					PID = 198 ppm max.
				17		17.5'-19.0': Fill-Brown-gray m to c SAND, tr f sand and gravel.	
						Sample collected: W18STMGP-SB5A-1719	

TRC

BORING No.: SB-5

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.80/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck/Kevin Kegel	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/2/2005	6/3/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' & 3' macrocore sampler	N/A	31'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				19		19.0'-19.6': Fill-Black stained SILT, f to c SAND, GRAVEL, brick and rock chunks.	19'-20': Tr petroleum-like odor, N/S
						Sample collected: W18STMGP-SB5A-1920	PID = 6.8 ppm max.
						20.0'-25.0': ML-Gray silty CLAY and tr f sand.	20'-25': Very sl petroleum-like odor, N/S
	4	5.0'		21			PID = 8.4 ppm max.
				23			
				25			
						26.0'-26.5': SP-Brown c SAND, tr gravel and m sand.	26'-29': N/O, N/S
	5	1.5'		27		26.5'-27.5: SM-Brown c SAND, SILT, CLAY, ltl f to m sand and tr gravel.	PID = 8.0 ppm max.
						Sample collected: W18STMGP-SB5A-2628	
				29		29.0'-30.5': SP-Brown m SAND.	29'-31': N/O, N/S
	6	1.5'					PID = 5.0 ppm max.
				31		E.O.B. at 31' bgs	
						(Heaving sands in casing from 12'-31' bgs. Move location over 2' and attempt new SB-5/MW-5B location)	
				33			
				35			

TRC

BORING No.: MW-5A

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.84/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/2/2005	5/2/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' macrocore sampler	N/A	22'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0'-0.8': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Brown SILT, f SAND, some m sand, tr c sand, gravel and cobbles.	0.8'-2': N/O, N/S PID = 1.7 ppm max.
						2.0'-4.0': Fill-Brown f to c SAND, some gravel, cobbles and tr silt.	2'-3': N/O, N/S
				3		Sample collected: W18STMGP-SB5B-2.53	PID = 0.9 ppm max. 3'-4': N/O, N/S PID = 5.6 ppm max.
						4.0'-4.5': Fill-Brown f to c SAND, some gravel, cobbles, tr silt and brick fragments.	4'-5': N/O, N/S PID = 0.9 ppm max.
				5		5.0'-5.3': Fill-Brown SILT, f to m SAND, some c sand, ltl gravel and clay.	5'-10': N/O, N/S
	1	0.3'					PID = 28.4 ppm max.
				7			
				9			
						10.0'-10.9': Fill-Lt to dk brown SILT, f to c SAND, GRAVEL and brick fragments.	10'-11': Strong petroleum-like odor, sheen, N/S
	2	1.4'		11		Sample collected: W18STMGP-SB5B-1011	PID = 387 ppm max.
						10.9'-11.4': Fill-Lt brown f to c SAND and GRAVEL.	
						Sample collected: W18STMGP-SB5B-1112	11'-15': Very strong petroleum-like odor, black staining, sheen PID = 4,085 ppm max.
				13			
				15			15'-20': Very strong petroleum-like odor, N/S, sheen
						15.0'-15.1': Fill-Brown-gray SILT, f SAND and tr gravel.	
	3	0.1'					PID = 1,222 ppm max.
				17			

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: MW-5A

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT W18th St MGP SCS/Con Edison	**PROJECT NO.** 41318-0700-10000	**AREA OF SITE** SW of Former Gas Holder #2	
ADDRESS Verizon Building on W 18th Street b/w 9th and 10th Ave		**ELEVATION/DATUM** 13.84/NAVD 88	
DRILLING CONTRACTOR Fenley and Nicol Environmental, Inc.	**DRILLER** Scott Yanuck	**TRC INSPECTOR** Jessica Elliott	
DRILLING RIG Geoprobe 6610DT	**TYPE/SIZE BIT** N/A	**START DATE** 5/2/2005	**END DATE** 5/2/2005
SAMPLER TYPE 5' macrocore sampler	**HAMMER WEIGHT/DROP** N/A	**TOTAL DEPTH (feet below ground surface (ft bgs))** 22'	**WATER LEVEL (ft bgs)** 11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				19			18'-22': N/O, N/S PID = 1.9 ppm max.
	4	2.0'		21		20.0'-21.0': Fill-Brown m to c SAND, tr gravel, silt and brick and concrete fragments. Sample collected: W18STMGP-SB5B-2122	20'-21': Sl petroleum-like odor, N/S, sheen PID = 55 ppm max. 21'-22': Sl petroleum-like odor, N/S, tr sheen PID = 12.4 ppm max.
				23		E.O.B. at 22' bgs (Refusal due to brick/concrete at 22' bgs)	
				25			
				27			
				29			
				31			
				33			
				35		Well set at 19' bgs. Screen interval from 19.0' to 9.0' bgs.	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: MW-5B

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.80/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	6/1/2005	6/8/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' macrocore & 2' & 4' discrete sampler	N/A	42'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0'-0.8': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Brown SILT, f SAND, some m sand, tr c sand, gravel and cobbles.	0.8'-2': N/O, N/S PID = 1.7 ppm max.
						2.0'-4.0': Fill-Brown f to c SAND, some gravel, cobbles and tr silt.	2'-3': N/O, N/S
				3		Sample collected: W18STMGP-SB5A-3.54	PID = 0.9 ppm max. 3'-4': N/O, N/S PID = 5.6 ppm max.
						4.0'-4.5': Fill-Brown f to c SAND, some gravel, cobbles, tr silt and brick fragments.	4'-5': N/O, N/S PID = 0.9 ppm max.
				5		5.0'-5.3': Fill-Brown SILT, f to m SAND, some c sand, ltl gravel and clay.	5'-10': N/O, N/S
	1	0.3'					PID = 28.4 ppm max.
				7			
				9			
						10.0'-10.9': Fill-Lt to dk brown SILT, f to c SAND, GRAVEL and brick fragments.	10'-11': Strong petroleum-like odor, sheen, N/S
	2	1.4'		11		10.9'-11.4': Fill-Lt brown f to c SAND and GRAVEL.	PID = 387 ppm max.
							11'-15': Very strong petroleum-like odor, black staining, sheen PID = 4,085 ppm max.
				13			
				15			15'-19': Very strong petroleum-like odor, N/S, sheen
	3	0.1'				15.0'-15.1': Fill-Brown-gray SILT, f SAND and tr gravel.	PID = 1,222 ppm max.
						Begin sampling for MW-5B at 17' bgs (2' discrete sampler) in order to determine top of clay interval.	
				17		Sample collected: W18STMGP-SB5A-1719	
	4	2.0'					

No Backfill/Hole Collapse
Concete
Well Screen

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.80/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/2/2005	5/2/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' macrocore & 2' & 4' discrete sampler	N/A	42'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				19		18.5'-19.0': ML-Tan silty CLAY and tr f sand.	
						19.0'-21.0': SM-Brown f to m SAND, SILT, tr clay, gravel and c sand.	19'-21': Sheen
	5	2.0'				Sample collected: W18STMGP-SB5A-1920	
				21		21.0'-23.0': GW-Brown f to c SAND, GRAVEL, some silt and intervals of silty clay interval (varying thickness from approximately 0.2'-0.3').	
	6	2.0'					
				23		23.0'-25.0': SW-Red-brown m to c SAND, ltl gravel and 0.25' thick interval of silty CLAY in bottom of sample (24.75'-25.0').	
	7	2.0'					
				25			
						26.0'-28.0': SM-Lt brown SILT, f SAND, some clay and m to c sand and gravel.	
	8	2.0'		27		Sample collected: W18STMGP-SB5A-2628	
						28.0'-31.0': SM-Brown f SAND, some silt, tr m sand and c sand.	28'-32': N/O, N/S PID = 0.0 ppm max.
	9	4.0'		29			
				31		31.0'-31.3': ML-Tan silty CLAY and tr f sand.	
						31.3'-36.0': SW-Brown m to c SAND and some f sand.	32'-36': Very sl non-MGP related odor, N/S PID = 0.0 ppm max.
	10	4.0'		33			
						Sample collected: W18STMGP-MW5B-3436	
				35			
						36.0'-42.0': Soils were not logged, but 3.25" steel casing was advanced to 42' bgs to set monitoring well MW-5B with the screen interval below any clay intervals.	

No Backfill/Hole Collapse
Concete
Well Screen

TRC

BORING No.: MW-5B

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.80/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	6/1/2005	6/8/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
5' macrocore & 2' & 4' discrete sampler	N/A	42'	11.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				37, 39, 41, 43, 45, 47, 49, 51, 53		E.O.B. at 42' bgs Well set at 42' bgs. Screen interval from 32' to 42' bgs.	No Backfill/Hole Collapse Concete Well Screen

TRC

BORING No.: SB-6

SHEET 1 OF 4

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.69/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/12/2005	5/13/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3' & 5' macrocore sampler with 31/4" steel casi	N/A	72'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.3': CONCRETE and rebar.	
				1		0.8'-2.0': Fill-Brown SILT, f SAND and tr gravel.	0.3'-2': N/O, N/S PID = 4.0 ppm max.
				3		2.0'-5.0': Fill-Brown f SAND, some silt, gravel and brick fragments.	2'-3': N/O, N/S PID = 1.7 ppm max. 3'-4': N/O, N/S PID = 1.4 ppm max. 4'-5': N/O, N/S PID = 2.5 ppm max.
				5		5.0'-6.7': Fill-Brown SILT, f SAND, tr m to c sand and gravel.	5'-10': N/O, N/S PID = 0.3 ppm max.
	1	1.7'		7	▼		
				9			
						10.0'-11.7': Fill- Brown SILT, f SAND, some m to c sand and tr gravel.	10'-13': Sl petroleum-like odor (stronger at tip of sample), tr black staining
	2	1.7'		11		Sample collected: W18STMGP-SB6-1012	PID (sample sleeve) = 265 ppm max. PID (sample tip) = 2,060 ppm max.
				13		12.9'-13.0' (tip of 10'-13' sample): Brown f to c SAND, SILT and some gravel. 13.0'-14.4': Fill-Gray-brown SILT, f SAND and tr c sand.	13'-16': Strong petroleum-like odor, some black staining, sheen, tr NAPL
	3	1.4'				Sample collected: W18STMGP-SB6-1315	PID = 3,520 ppm max.
				15			
						16.0'-16.4': Fill-Dk brown SILT, f SAND, tr m sand and rock fragments.	16'-19': Sl petroleum-like odor, N/S
	4	0.4		17			PID = 134 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.69/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/12/2005	5/13/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3' & 5' macrocore sampler with 31/4" steel ca	N/A	72'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				19		0'-19.0': 3 1/4" steel casing installed to 19' bgs. Discrete sampling from 19'-72' bgs.	
						19.0'-20.9': Fill-Brown SILT, f SAND and tr m sand and gravel (2' discrete sampler).	19'-20': N/O, N/S
	5	0.8'					PID = 45 ppm max.
						Sample collected: W18STMGP-SB6-1921	20'-23': N/O, N/S
	6	2.9'		21		20.9'-22.9': Fill-Lt brown f to c SAND, GRAVEL, rock fragments and tr brick fragments.	PID = 2.4 ppm max.
				23		23.0'-26.1': SM-Brown-dk brown SILT, f SAND, with pockets of m to c sand and tr gravel.	23'-27': N/O, N/S
	7	4.0'					PID = 0.9 ppm max.
						Sample collected: W18STMGP-SB6-2426	
				25			
						26.1'-28.2': ML-Tan silty CLAY and tr f sand.	
				27			27'-32': N/O, N/S
	8	5.0'					PID = 0.0 ppm max.
						28.2'-36.0': SP-Brown f to m SAND and tr silt.	
				29		Sample collected: W18STMGP-SB6-28.530.5	
				31			32'-37': N/O, N/S
							PID = 0.0 ppm max.
	9	5.0'		33			
				35			

TRC

BORING No.: SB-6

SHEET 3 OF 4

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.69/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/12/2005	5/13/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3' & 5' macrocore sampler with 31/4" steel ca	N/A	72'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				37		36.0'-36.5': SP-Brown very c SAND. 36.5'-38.0': SP-Brown f to m SAND.	
	10	5.0'		39		38.0'-40.0': ML-Tan silty CLAY and tr f sand.	
				41		40.0'-57.0': SP-Brown f to m SAND and tr c sand.	37'-42': N/O, N/S PID = 0.0 ppm max.
	11	5.0'		43			
				45			
				47			42'-47': N/O, N/S PID = 0.0 ppm max.
	12	5.0'		49			
				51			47'-52': N/O, N/S PID = 0.0 ppm max.
	13	5.0'		53			

TRC

BORING No.: SB-6

SHEET 4 OF 4

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW of Former Gas Holder #2	
ADDRESS		**ELEVATION/DATUM**	
Verizon Building on W 18th Street b/w 9th and 10th Ave		13.69/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Fenley and Nicol Environmental, Inc.	Scott Yanuck	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe 6610DT	N/A	5/12/2005	5/13/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3' & 5' macrocore sampler with 31/4" steel ca	N/A	72'	13'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
				55			
				57		57.0'-66.7': SW-Brown f to m SAND and some c sand.	57'-62': N/O, N/S
	14	5.0'					PID = 0.0 ppm max.
				59			
				61			
							62'-67': N/O, N/S
	15	5.0'		63			PID = 0.0 ppm max.
				65			
				67		66.7'-67.0': GC-Brown f to very c SAND and GRAVEL. 67.0'-71.75': GP-Brown m to very c SAND, GRAVEL and tr f sand.	67'-72': N/O, N/S
	16	5.0'					PID = 0.0 ppm max.
				69			
				71		Sample collected: W18STMGP-SB6-7072 71.75'-72.0': Refusal-Schist fragments in spoon.	

E.O.B. at 72' bgs (Refusal due to hard rock).

TRC

BORING No.: SB-18

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Western edge of the Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at Chelsea Piers between 18th and 19th St		6.74/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	3.25" Hollow Stem Auger	7/20/2004 / 7/20/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	43' / 7'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
							0.0'-2.0': COBBLESTONE AND CONCRETE	
					1			
					3			
					5		Sample collected: W18STMGP-B27-5.05.5	
				4			5.0'-23.0': Fill-grayish black v f to c SAND, some silt and ltl to some gravel.	5'-7': N/O, N/S
		1	1.0'	2				PID = 0.1 ppm max.
				1				
				1		▼	Sample collected: W18STMGP-B08-7.37.9	
				2	7		8.0-10.5: Fill-Tr gray clayey SILT.	7'-9': N/O, N/S
		2	0.9'	6				PID = 0.1 ppm max.
				2				
				2				
				4	9			9'-11': N/O, N/S
		3	1.4'	10				PID = 0.0 ppm max.
				3				
				3				
				4	11			11'-13': N/O, N/S
		4	0.1'	1				PID = 0.1 ppm max.
				3				
				3				
				3	13		13.0'-21.0': Ltl to some brick fragments, wood fibers and shell fragments.	13'-15': N/O, N/S
		5		5				PID = 0.2 ppm max.
				7				
				7				
				3	15			15'-17': N/O, N/S
		6	1.6'	2				PID = 0.3 ppm max.
				3				
				3				
				3	17			17'-19': N/O, N/S
		7	1.4'	2				PID = 0.1 ppm max.

TRC

BORING No.: SB-18

BORING LOG

SHEET 2 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Western edge of the Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at Chelsea Piers between 18th and 19th St		6.74/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	3.25" Hollow Stem Auger	7/20/2004 / 7/20/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	43' / 7'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				4				
				4				
				6	19			19'-21': N/O, N/S
		8	1.2'	4				PID = 0.0 ppm max.
				3				
				1				
				2	21			21'-23': Musty odor, N/S
		9	1.4'	6				PID = 1.5 ppm max.
				5			22.1'-22.5': Wood timbers in nose of spoon.	
				9				
				5	23		23.0'-25.0': Wood fibers and brick fragments and trace clay in nose of spoon.	23'-25': Musty odor, N/S
		10	2.0'	8				PID = 1.4 ppm max.
				8				
				5				
				1	25		25.0'-29.0': SM-Dark gray SILT, v f to c SAND and ltl m to c gravel.	25'-27': N/O, N/S
		11	1.5'	4				PID = 0.1 ppm max.
				3				
				2				
				3	27			27'-29': Sl odor in nose of spoon, N/S
		12	2.0'	2				PID = 23.8 ppm max.
				3				
				2			Sample collected: W18STMGP-B08-28.529.0	
				3	29		29.0'-31.0': ML-Gray silty CLAY, tr shell fragments and small clams.	29'-31': Odor, N/S
		13	1.5'	2				PID = 23.9 ppm max.
				1				
				1				
				3	31		31.0'-35.0': SM-Gray SILT, v f to m SAND, ltl, f to m gravel, tr muscovite and	31'-33': Sl odor, visible sheen, N/S
		14	1.4'	1			silty clay in the nose of the spoon from 33.0'-35.0' bgs.	PID = 5.2 ppm max.
				2				
				2				
				2	33			33'-35': Odor, visible sheen, N/S
		15	1.4'	1				PID = 1.2 ppm max.
				1				
				2				
				WOH/18"	35		35.0'-43.0': ML-Grayish black silty CLAY, tr f sand and m gravel.	35'-37': Odor, N/S
		16	1.5'					PID = 3.2 ppm max.

TRC

BORING No.: SB-18

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Western edge of the Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at Chelsea Piers between 18th and 19th St		6.74/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	3.25" Hollow Stem Auger	7/20/2004 / 7/20/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	43' / 7'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
				2	37			
				WOH/12"				37'-39': Odor, N/S
		17	2.0'					PID = 2.2 ppm max.
				2				
				1	39			
				WOH/12"				39'-41': Sl odor, N/S
		18	2.0'					PID = 2.5 ppm max.
					41			
								41'-43': N/O, N/S
		19						PID = 1.3 ppm max.
							Sample collected: W18STMGP-B08-42.543.0	
					43			
							E.O.B. at 43' bgs.	
					45			
					47			
					49			
					51			
					53			

TRC

BORING No.: SB-53

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern portion of Former Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Johnson Building on W 19th Street b/w Route 9A and 10th Ave		-
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Simco Earthprobe 200	N/A	3/24/2005 / 3/24/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
4' long, 2" macrocore sampler	N/A	26' / 8'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0'-1.0': CONCRETE and rebar.	
						1.0'-2.0': Fill-Dk brown to black f to c SAND, GRAVEL, concrete, wood fibers, slag and coal fragments and black tar.	1'-2': Strong tar odor, some black staining PID = 1.2 ppm max.
				3		2.0'-4.5': Fill-WOOD FIBERS, ltl f to c sand, tr gravel, coal fragments and glass.	2'-4.5': Strong tar odor, black staining, dk blue dye on wood and in soil PID = 0.0 ppm max.
	1	3.4'					
				5		4.5'-5.4': Fill-Tan SILT, f to m SAND and tr gravel.	4.5'-6': N/O, N/S PID = 0.0 ppm max.
						6.0'-7.0': Fill-Dk brown m to c SAND, WOOD FIBERS, tr gravel and tr brick fragments.	6'-7': Non-MGP related odor, dk blue staining on wood
				7		Sample collected: W18STMGP-SB53-67	PID = 0.0 ppm max.
						7.0'-8.3': Fill-Tan f SAND and SILT.	7'-10': N/O, N/S
	2	3.3'			▼		PID = 0.0 ppm max.
						8.3'-9.3': Fill-Orange-brown m to c SAND, tr f sand and gravel.	
				9		Sample collected: W18STMGP-SB53-8.39.3	
						10.0'-15.0': SP-Gray-brown m to c SAND and tr silty clay lenses (approximately 0.01 feet thick).	10'-14': Sewage-like odor, N/S PID = 0.0 ppm max.
				11			
	3	3.9'					
				13			
							14'-18': Sewage-like odor, N/S PID = 0.0 ppm max.
				15		Sample collected: W18STMGP-SB53-1415	
						15.0'-15.3': SP-Brown f to m SAND, tr silt, f sand and gravel.	
	4	3.9'				15.3'-15.9': SW-Black f to very c SAND and some gravel.	
						15.9'-17.9': ML-Black and tan silty CLAY, tr f sand. brick fragments.	
				17			

TRC

BORING No.: SB-53

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT W18th St MGP SCS/Con Edison	**PROJECT NO.** 41318-0700-10000	**AREA OF SITE** Northern portion of Former Gas Light Co. Store Yard	
ADDRESS Johnson Building on W 19th Street b/w Route 9A and 10th Ave		**ELEVATION/DATUM** -	
DRILLING CONTRACTOR Fenley and Nicol Environmental, Inc.	**DRILLER** Kevin Kegel	**TRC INSPECTOR** Jessica Elliott	
DRILLING RIG Simco Earthprobe 200	**TYPE/SIZE BIT** N/A	**START DATE** 3/24/2005	**END DATE** 3/24/2005
SAMPLER TYPE 4' long, 2" macrocore sampler	**HAMMER WEIGHT/DROP** N/A	**TOTAL DEPTH (feet below ground surface (ft bgs))** 26'	**WATER LEVEL (ft bgs)** 8'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
					19		18.0'-19.5': Sluff from hole collapsing. Recovered material not indicative of actual soil at this depth interval.	18'-22': N/O, N/S PID = 0.0 ppm max.
		5	3.9'		21		19.5'-22.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	
		6	4.0'		23		22.0'-26.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	22'-26': N/O, N/S PID = 0.0 ppm max.
					25			
					27		E.O.B. at 26' bgs	
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-54

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern portion of Former Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Johnson Building on W 19th Street b/w Route 9A and 10th Ave		-
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Simco Earthprobe 200	N/A	3/24/2005 / 3/24/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
4' long, 2" macrocore sampler/discrete sampler	N/A	29' / 9'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0'-0.8': CONCRETE and rebar.	0.8'-1.0': Tar-like odor, black staining
						0.8'-1.0': Fill-Brown to dk brown f to c SAND, GRAVEL, some cobbles and slag and coal fragments.	PID = 0.6 ppm max.
						1.0'-2.0': Fill-Dk brown to black f to c SAND, GRAVEL and some cobbles.	1'-2': N/O, tr black staining
							PID = 0.7 ppm max.
				3		2.0'-3.0': Fill-Dk brown to black f to c SAND, GRAVEL, some cobbles and large chuncks of brick at 3' bgs.	2'-3': Tar-like odor, tr black staining, black tar covering gravel and cobbles.
						3.0'-4.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, tr slag and coal fragments.	PID = 1.1 ppm max.
						Sample collected: W18STMGP-SB54-34	3'-4': Tar-like odor, tr black staining, black tar covering gravel and cobbles.
							PID = 1.0 ppm max.
				5		4.5'-5.4': Fill-Tan SILT, f to m SAND and tr gravel.	5'-6.4': Tr solvent-like odor, N/S
						5.0'-6.4': Fill-Dk brown f to c SAND, some gravel and tr silt.	PID = 31.8 ppm max.
						Sample collected: W18STMGP-SB54-56	
	1	3.6'		7		6.4'-7.0': Fill-Lt brown f SAND and some silt.	6.4'-9': N/O, N/S
						7.0'-8.6': SW-Lt brown-red f to c SAND and GRAVEL.	PID = 0.0 ppm max. at 8.6' bgs
				9	▼	9.0'-10.9': SW-Lt brown f to m SAND, tr silt, c sand and gravel grading to f to c sand towards bottom of sample (2' of sluff).	9'-13': N/O, N/S
							PID = 0.0 ppm max.
						Sample collected: W18STMGP-SB54-910	
	2	3.9'		11			
				13		13.0'-15.4': SW-Brown m SAND, some f and c sand and tr gravel (1.5' of sluff).	13'-17': N/O, N/S
							PID = 0.0 ppm max.
	3	3.9'		15			
				17		17.0'-19.4': SW-Brown m SAND, some f and c sand and tr gravel (1.5' of sluff).	17'-21': N/O, N/S
							PID = 0.0 ppm max.

TRC

BORING No.: SB-54

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT W18th St MGP SCS/Con Edison	**PROJECT NO.** 41318-0700-10000	**AREA OF SITE** Northern portion of Former Gas Light Co. Store Yard	
ADDRESS Johnson Building on W 19th Street b/w Route 9A and 10th Ave		**ELEVATION/DATUM** -	
DRILLING CONTRACTOR Fenley and Nicol Environmental, Inc.	**DRILLER** Kevin Kegel	**TRC INSPECTOR** Jessica Elliott	
DRILLING RIG Simco Earthprobe 200	**TYPE/SIZE BIT** N/A	**START DATE** 3/24/2005	**END DATE** 3/24/2005
SAMPLER TYPE 4' long, 2" macrocore sampler/discrete sampler	**HAMMER WEIGHT/DROP** N/A	**TOTAL DEPTH (feet below ground surface (ft bgs))** 29'	**WATER LEVEL (ft bgs)** 9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
		4	3.9'		19		Sample collected: W18STMGP-SB54-1921	
							NOTE: At 21' bgs, switch to discrete sampling due to soil collapsing in hole.	
					21		21.0'-24.9': ML-Dk gray silty CLAY, tr f sand and shell fragments.	21'-25': N/O, N/S PID = 0.0 ppm max.
		5	3.9'		23			
					25		25.0'-29.0': ML-Dk gray silty CLAY, tr f sand and shell fragments. 4" of silty CLAY tip of sample.	25'-29': N/O, N/S PID = 0.0 ppm max.
		6	0.5'		27			
					29		E.O.B. at 29' bgs	
					31			
					33			
					35			

TRC

BORING No.: SB-55

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern portion of Former Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Johnson Building on W 19th Street b/w Route 9A and 10th Ave		-
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
Fenley and Nicol Environmental, Inc.	Kevin Kegel	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Simco Earthprobe 200	N/A	3/25/2005 / 3/25/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
4' long, 2" macrocore sampler/discrete sampler	N/A	30' / 8.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0'-0.8': CONCRETE and rebar.	
						0.8'-2.0': Fill-Dk brown to black f to c SAND, GRAVEL, some cobbles, concrete, slag and coal fragments and wood fibers.	0.8'-2': Tar-like odor and pine odor, N/S PID = 11.8 ppm max.
						Sample collected: W18STMGP-SB55-23 (collected from 1'-2')	
				3		2.0'-4.0': Fill-Dk brown to brown SILT, f to c SAND, tr gravel, cobbles and slag and coal fragments.	2'-3': N/O, N/S PID = 0.5 ppm max. 3'-4': N/O, N/S PID = 0.3 ppm max.
				5		4.0'-5.0': Fill-Dk brown f to c SAND, some gravel and tr wood fibers.	4'-5': Tr non-MGP related odor, N/S PID = 0.0 ppm max.
	1	3.0'				5.0'-6.0': Fill-Red-brown m to c SAND, some gravel, tr silt and brick chunks at 6.0' bgs.	5'-8': N/O, N/S PID = 0.0 ppm max.
						Sample collected: W18STMGP-SB55-56	
				7		6.0'-7.0': Fill-Lt brown f to c SAND, tr gravel and silt.	
						7.0'-8.6': Fill-Lt brown-red f to c SAND and GRAVEL.	
					▼	8.0'-9.9': SP-Orange-brown grading to brown m SAND, tr f and c sand, gravel and silt (2' of sluff).	8'-12': N/O, N/S PID = 0.0 ppm max.
				9		Sample collected: W18STMGP-SB55-89	
	2	3.9'					
				11			
						12.0'-14.0': SP-Brown m SAND, tr f and c sand, gravel and silt (1.9' of sluff).	12'-16': N/O, N/S PID = 0.0 ppm max.
				13			
	3	3.9'					
				15			
						16.0'-17.0': SP-Brown m SAND, tr f and c sand, gravel and silt (3' of sluff).	16'18': N/O, N/S PID = 2.9 ppm max.
	4	2.0'		17		NOTE: At 18' bgs, switch to discrete sampling due to soil collapsing in hole.	

TRC

BORING No.: SB-55

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT W18th St MGP SCS/Con Edison	**PROJECT NO.** 41318-0700-10000	**AREA OF SITE** Northern portion of Former Gas Light Co. Store Yard	
ADDRESS Johnson Building on W 19th Street b/w Route 9A and 10th Ave		**ELEVATION/DATUM** -	
DRILLING CONTRACTOR Fenley and Nicol Environmental, Inc.	**DRILLER** Kevin Kegel	**TRC INSPECTOR** Jessica Elliott	
DRILLING RIG Simco Earthprobe 200	**TYPE/SIZE BIT** N/A	**START DATE** 3/24/2005	**END DATE** 3/24/2005
SAMPLER TYPE 4' long, 2" macrocore sampler/discrete sampler	**HAMMER WEIGHT/DROP** N/A	**TOTAL DEPTH (feet below ground surface (ft bgs))** 29'	**WATER LEVEL (ft bgs)** 8.5'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	REMARKS (PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
		5	2.0'		19 21		18.0'-20.0': SP-Gray-brown very f SAND and some silty clay. Sample collected: W18STMGP-SB55-1920	18'-22': N/O, N/S PID = 1.9 ppm max.
		6	3.9'		23 25		22.0'-25.9': ML-Dk gray silty CLAY, tr f SAND and shell fragments.	22'-26': N/O, N/S PID = 0.0 ppm max.
		7	3.9'		27 29		26.0'-29.9': ML-Dk gray silty CLAY, tr f SAND and shell fragments.	26'-30': N/O, N/S PID = 0.0 ppm max.
					31 33 35		E.O.B. at 30' bgs	

TRC

BORING No.: SB-09

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the center of Gas Holder #3	
ADDRESS			**ELEVATION/DATUM**
Northern end of the outside section of the 10th Ave parking lot between 18th and 19th St			12.40/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Doug Martin	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	34'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': ASPHALT	
				1		0.5'-3.0': Fill-Black f to c SAND and f GRAVEL.	1'-2': Sl petroleum odor, N/S PID = 50 ppm max.
				3		3.0'-6.0': Fill-Dk brown f to m SAND and f to m GRAVEL.	2'-3': Sl petroleum odor, N/S PID = 286 ppm max. 3'-4': Sl petroleum odor, N/S PID = 96 ppm max.
				5		Sample collected: W18STMGP-B09-4	4'-5': Sl petroleum odor, N/S PID = 460 ppm max. 5'-6': Sl petroleum odor, N/S PID = 16 ppm max.
	1	0.8'	8 6 7	7		6.0'-8.2': Fill-M gray grading to reddish tan f to m SAND, some silt, tr sand, mica and wood fibers.	6'-8': N/O, N/S PID = 0.0 ppm max.
	2	0.5'	6 7 4 5	9	▼	8.2'-10.0': Fill-Dk grayish brown SILT and f SAND. Sample collected: W18STMGP-B09-810	8'-10': Sl petroleum odor, N/S PID = 0.0 ppm max.
	3	0.5'	9 8 4 3	11		10.0'-16.0': Fill-M gray f to c SAND, SILT and tr f gravel.	10'-12': N/O, N/S PID = 0.0 ppm max.
	4	0.6'	2 2 3 3	13			12'-14': N/O, N/S PID = 0.0 ppm max.
	5	0.6'	3 1 2 3	15			14'-16': N/O, N/S PID = 0.0 ppm max.
	6	0.5'	4 6 18 10	17		16.0'-18.0': Fill-M gray f SAND, SILT, GRAVEL and c gravel and rock fragments in shoe.	16'-18': N/O, N/S PID = 0.0 ppm max.
			12				

TRC

BORING No.: SB-09

BORING LOG

SHEET 2 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the center of Gas Holder #3	
ADDRESS			**ELEVATION/DATUM**
Northern end of the outside section of the 10th Ave parking lot between 18th and 19th St			12.40/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Doug Martin	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	34'	9'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			50/3			18.0'-20.2': Fill-Dk gray f to c SAND, some silt and tr gravel.	
	8	0.3'		19			
							20'-22': N/O, N/S,
			14			20.2'-20.3': Block of weathered tan m to c SAND.	PID = 0.0 ppm max.
	9	0.7'	50/3	21		20.3'-22.0': SW-M brown f to c SAND and SILT.	PID (headspace) = 750 ppm max.
						Sample collected: W18STMGP-B09-2022	
							22'-24': Sl MGP-related odor, N/S
			14			22.0'-24.0': SP-Olive f SAND, ltl silt, tr c gravel and large rock fragment in shoe.	PID = 0.0 ppm max.
	10	0.7'	20	23			PID (headspace) = 21.7 ppm max.
			50/0				
							24'-26': Sl MGP-related odor, N/S
			8			24.0'-28.2': SP-Reddish brown m to c SAND, ltl silt and tr gravel.	PID = 0.0 ppm max.
	11	0.6'	20	25			PID (headspace) = 28.0 ppm max.
			14				
			30				26'-28': Sl MGP-related odor from outside of spoon, N/S
			8				PID = 0.0 ppm max.
	12	1.1	8	27			PID (headspace) = 85 ppm max.
			10				
			12			Sample collected: W18STMGP-B09-2628	28'-30': Sl MGP-related odor from outside of spoon, N/S
			6			28.2'-32.3': ML-Reddish brown silty CLAY and tr rounded gravel.	PID = 0.0 ppm max.
	13	0.6'	8	29			PID (headspace) = 100 ppm max.
			6				
			9				30'-32': N/O, N/S
			9				PID = 0.0 ppm max.
	14	0.1'	18	31			Not enough for headspace reading
			20				
			30				32'-34': N/O, N/S
			8			32.3'- 34.0': SW-M brown f to c SAND and tr mica flecks.	PID = 0.0 ppm max.
	15	1.5'	12	33			PID (headspace) = 2.9 ppm max.
			10			Sample collected: W18STMGP-B09-3234	
			13				
						E.O.B. at 34' bgs.	
				35			

TRC

BORING No.: SB-10

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the center of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.87/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Doug Martin	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': ASPHALT	
				1		0.5'-3.0': Fill-Black f to c SAND and f GRAVEL.	1'-2': Petroleum odor, N/S PID = 120 ppm max.
				3		3.0'-11.0': Fill-Brown f to c SAND, some silt and gravel and chunks of rock.	2'-3': Petroleum odor, N/S PID = 390 ppm max. 3'-4': Petroleum odor, N/S PID = 2,386 ppm max. 4'-5': Petroleum odor, N/S PID = 2,862 ppm max. 5'-6': Petroleum odor, N/S PID = 2,806 ppm max.
				5		Sample collected: W18STMGP-B10-5	
	1	1.1'	9 7 6 6	7			6'-8': Strong gasoline/fuel oil odor, N/S PID = 1,200 ppm max.
	2	0.8'	4 2 5 5	9	▼		8'-10': Strong gasoline/fuel oil odor, N/S, visible brown product from 8.4'-8.8' PID = 1,100 ppm max.
	3	1.0'	3 3 6 10	11		10.5'-10.6': Blue silt on both sides of the spoon seam.	10'-12': Sl petroleum odor, N/S PID = 3.0 ppm max.
	4	0.7'	7 9 8 14	13		12.0'-14.0': Fill-Dk grayish brown f SAND and some silt.	12'-14': Sl petroleum odor, N/S PID = 0.0 ppm max.
	5	0.7'	2 3 5 7	15		14.0'-14.5': Fill-M brown silty CLAY grading to olive black SILT and f SAND. 14.5': Holder bottom: Red weathered brick fragments and large brick and concrete chunks in spoon.	14'-16': N/O, N/S PID = 10.0 ppm max.
	6	0.7	7 14 50/0	17		16.0'-18.0': Fill-Gray to black f to m SAND and some silt. Bands of blue SILT and ltl clay from 16.6'-16.7'.	16'-18': N/O, N/S PID = 0.0 ppm max.

TRC

BORING No.: SB-10

SHEET 2 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the center of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.87/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Doug Martin	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						18.0'-20.0': No Sample due to an obstruction that was augered through.	
				19			
							20'-22': Sl napthalene odor, N/S
			20			20.0'-24.0': SM-Reddish brown f to m SAND and ltl to tr silt (increasing with depth)	PID = 5.7 ppm max.
	8	0.5'	35			Sample collected: W18STMGP-B10-2022	
			50/.2	21			
							22'-24': Sl napthalene odor from 22.0'-22.5', N/S
			21				
	9	1.1'	25				PID = 4.0 ppm max.
			31	23			
			20				24'-26': Sl napthalene odor, N/S
			19			24.0'-24.5': ML-Reddish brown silty CLAY.	PID = 0.0 ppm max.
	10	1.0'	27			24.5'-30.6': SW-Reddish brown f to c SAND, some silt and tr rock fragments.	
			26	25			
			31				26'-28': Sl napthalene odor, N/S
			12				PID = 0.4 ppm max.
	11	0.8'	19				
			27	27			
			27				28'-30': Sl napthalene odor, N/S
			9				PID = 0.0 ppm max.
	12	0.5'	11				
			16	29			
			21				30'-32': Sl napthalene odor, N/S
			9				PID = 0.0 ppm max.
	13	1.3'	10			30.6'-31.3': GW-F to c SAND, GRAVEL and tr silt.	
			14	31			
			21				32'-34': Sl napthalene odor, N/S
			8			32.0'-36.5': SW-Reddish brown f to c SAND, tr silt and f gravel.	PID = 0.0 ppm max.
	14	0.8'	6				
			12	33			
			11				34'-36': N/O, N/S
			3				PID = 0.0 ppm max.
	15	0.1'	5				
			9	35			
			7				

TRC

BORING No.: SB-10

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the center of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.87/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Doug Martin	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			17				36'-38': N/O, N/S
	16	0.5'	50/0.3	37			PID = 0.0 ppm max.
							38'-40': N/O, N/S
			5			38.0'-48.6': SM-Reddish brown SILT, some f sand and tr mica flecks.	PID = 0.0 ppm max.
	17	1.2'	5	39			
			5				40'-42': N/O, N/S
			4				PID = 0.0 ppm max.
	18	1.0'	5	41			
			21				42'-44': N/O, N/S
			16				PID = 0.0 ppm max.
	19	1.4'	14	43			
			11				44'-46': N/O, N/S
			16			44.0': Ltl clay in spoon.	PID = 0.0 ppm max.
	20	1.3'	16	45			
			8				46'-48': N/O, N/S
			17				PID = 0.0 ppm max.
	21	1.2'	15	47			
			18				48'-50': N/O, N/S
			6				PID = 0.0 ppm max.
	22	1.0'	9	49		48.6'-50.0': ML-Dk tan silty CLAY with bands of f sand and silt. Weathered schist fragments in shoe.	
			11			Sample collected: W18STMGP-B10-4850	
			11			E.O.B. at 50' bgs.	
			14				
			17				
			19				
			26	51			
				53			

TRC

BORING No.: SB-11

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.58/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	39'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': ASPHALT	1'-2': Petroleum odor, N/S
				1		0.5'-1.0': Fill-F to c SAND, f GRAVEL and glass and brick fragments.	PID = 2,000 ppm max.
						1.0'-3.0': Fill-CONCRETE mixture similar to cinder blocks.	2'-3': Petroleum odor, N/S
							PID = 250 ppm max.
							3'-4': Petroleum odor, N/S
				3			PID = 200 ppm max.
						3.0'-11.0': Fill-Brown f to c SAND, some silt and gravel and chunks of rock.	4'-5': Petroleum odor, N/S
							PID = 220 ppm max.
							5'-6': Petroleum odor, N/S
				5			PID = 160 ppm max.
			1			Sample collected: W18STMGP-B11-6	6': PID (headspace) = 2,025 ppm max.
	1	0.2'	1				5'-7': Sl petroleum odor, N/S
			1				PID = 16.0 ppm max.
			1				
			1	7		Not enough to sample	7'-9': Strong petroleum odor and black staining.
	2	0.3'	2				PID = 1,114 ppm max.
			4				
			6		▼		
			2	9		No recovery, but wood fibers in shoe.	
	3	0.0'	WOH				
			1				
			1				
			WOH/16"	11		11.0'-23.7': Fill-Gray SILT, f SAND and tr m to c sand, gravel and wood fibers and mica flecks.	11'-13': Sl organic odor, N/S
	4	0.2'					PID = 17.6 ppm max.
			2				
			2	13		13.0'-23.7': Red brick fragments and chunks present in spoon.	13'-15': Sl organic odor, N/S
	5	0.3'	6				PID = 0.0 ppm max.
			3			Sample collected: W18STMGP-B11-1315	
			1				
			WOH/12"	15		15.0'-17.0': Pockets of green and blue silt.	15'-17': Sl organic odor, N/S
	6	0.4'					PID = 0.0 ppm max.
			2				
			1				
			4	17			17'-19': N/O, N/S
	7	2.0'	6				PID = 0.0 ppm max.

TRC

BORING No.: SB-11

SHEET 2 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.58/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	39'	9'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				10				
				12				
				5	19			19'-21': N/O, N/S
		8	2.0'	10				PID = 0.4 ppm max.
				12				
				3				
				WOH/12"	21			21'-23': Sl MGP-related odor, N/S
		9	1.6'					PID = 10.9 ppm max.
				3				
				3				
				42	23			23'-25': Strong MGP-related odor, black staining, visible sheen and Oil-Like Material (OLM).
		10	2.0'	15			23.7'-28': Fill-Brown SILT, f SAND, some m sand, brick fragments and wood fibers. 1" pockets of c SAND throughout interval from 23.7'-28'.	PID = 962 ppm max.
				10				
				15				
				20	25			25'-27': MGP-related odor, black staining, visible sheen, OLM and Tar-Like Material (TLM).
		11	2.0'	12				PID = 376 ppm max.
				7				
				8				
				8	27			27'-29': MGP-related odor, black staining, visible sheen, OLM and TLM.
		12	2.0'	12				PID = 1,036 ppm max.
				8			28.0'- 29.3': Fill-Brown SILT, f SAND, pockets of silty clay and wood fibers.	
				14			Sample collected: W18STMGP-B11-2729	
				11	29		29.3'-31.0': ML-Brown silty CLAY with pockets of f to c sand.	29'-31': Sl MGP-related odor, N/S
		13	1.7'	9				PID = 48.9 ppm max.
				11				
				14				
				7	31			31'-33': Sl MGP-related odor, N/S
		14	1.8'	7				PID = 20.8 ppm max.
				14				
				18				
					33		31.0'-35.0': Could not collect a true sample due to heaving sands in the augers.	
							35.0'-35.5': ML-Brown silty CLAY	
				2	35		Sample collected: W18STMGP-B11-3537	35'-37': N/O, N/S
		15	0.5'	2				PID = 0.0 ppm max.

TRC

BORING No.: SB-11

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #4	
ADDRESS			**ELEVATION/DATUM**
Southern end of the outside section of the 10th Ave parking lot between 18th and 19th St			11.58/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	9/18/2004	9/18/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	39'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			5				
			10	37			
			4			37.0'-38.0': SP-Reddish brown f to m SAND and tr silt.	37'-39': N/O, N/S
	16	1.0'	6			Sample collected: W18STMGP-B11-3739	PID = 0.0 ppm max.
			8				
			6	39		E.O.B. at 39' bgs.	
				41			
				43			
				45			
				47			
				49			
				51			
				53			

TRC

BORING No.: MW-12A

BORING LOG

SHEET 1 OF 1

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS		**ELEVATION/DATUM**	**ELEVATION/DATUM**
In the eastern section of the covered garage on 10th Ave between 18th and 19th St.			8.81/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Mike Burke	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25" Hollow Stem Auger	9/11/2004	9/11/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	17'	9.6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': CONCRETE and rebar.	
				1		0.5'-7.5': Mostly red bricks with some brown f to c SAND and concrete.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3			2'-3': N/O, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5			4'-5': N/O, N/S PID = 0.0 ppm max.
			20			Sample collected: W18STMGP-B12-57	5'-7': N/O, N/S
	1	0.75'	13				PID = 0.0 ppm max.
			1				
			5	7			
			14				7'-9': N/O, N/S
	2	0.5'	12			7.5'-9.3': Fill-Dk brownish gray and red c SAND and some f gravel.	PID = 0.2 ppm max.
			9				
			10				
			10	9	▼	9.3'-15.2': Fill-Dk grayish frown f SAND and some silt and m sand.	9'-11': N/O, N/S
	3	0.3'	2				PID = 0.0 ppm max.
			3				
			5	11			
			4				11'-13': N/O, N/S
	4	1.1'	1				PID = 0.0 ppm max.
			1				
			3				
			4	13			13'-15': N/O, N/S
	5	1.3'	6				PID = 1.7 ppm max.
			5				
			3				
			5	15		15.2'-21.0': Fill-Gray f SAND and SILT grading to gray SILT and ltl f sand.	15'-17': N/O, N/S
	6	1.0'	12				PID = 1.9 ppm max.
			8				
			5				
			2	17		Well set at 17' bgs.	
		0.2'	1			Screen interval from 17.0' to 7.0' bgs.	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-12/MW-12B

BORING LOG

SHEET 1 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS			**ELEVATION/DATUM**
In the eastern section of the covered garage on 10th Ave between 18th and 19th St.			8.80/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Mike Burke/Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25"/3.25" Hollow Stem Auger	9/11/2004	9/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50.75'	9.6'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
							0.0'-0.5': CONCRETE and rebar.	
							0.5'-7.5': Mostly red bricks with some brown f to c SAND and concrete.	
					1			1'-2': N/O, N/S
								PID = 0.0 ppm max.
								2'-3': N/O, N/S
					3			PID = 0.0 ppm max.
								3'-4': N/O, N/S
								PID = 0.0 ppm max.
								4'-5': N/O, N/S
					5			PID = 0.0 ppm max.
				20			Sample collected: W18STMGP-B12-57	5'-7': N/O, N/S
		1	0.75'	13				PID = 0.0 ppm max.
				1				
				5	7			
				14				7'-9': N/O, N/S
		2	0.5'	12			7.5'-9.3': Fill-Dk brownish gray and red c SAND and some f gravel.	PID = 0.2 ppm max.
				9			Sample collected: W18STMGP-B12-79	
				10				
				10	9	▼	9.3'-15.2': Fill-Dk grayish frown f SAND and some silt and m sand.	9'-11': N/O, N/S
		3	0.3'	2				PID = 0.0 ppm max.
				3				
				5	11			
				4				11'-13': N/O, N/S
		4	1.1'	1				PID = 0.0 ppm max.
				1				
				3	13			
				4				13'-15': N/O, N/S
		5	1.3'	6				PID = 1.7 ppm max.
				5				
				3				
				5	15		15.2'-21.0': Fill-Gray f SAND and SILT grading to gray SILT and ltl f sand.	15'-17': N/O, N/S
		6	1.0'	12				PID = 1.9 ppm max.
				8			Sample collected: W18STMGP-B12-1517	
				5				
				2	17			
		7	0.2'	1				

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS			**ELEVATION/DATUM**
In the eastern section of the covered garage on 10th Ave between 18th and 19th St.			8.80/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Mike Burke/Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25"/3.25" Hollow Stem Auger	9/11/2004	9/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50.75'	9.6'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				2				17'-19': N/O, N/S
				2				PID = 1.7 ppm max.
				2	19			19'-21': N/O, N/S
		8	1.8'	1				PID = 1.9 ppm max.
				1				
				3				
				WOH	21		21.0'-29.9': ML-Dk gray CLAY, tr f sand and shell fragments.	21'-23': N/O, N/S
		9	2.0'	WOH				PID = 2.0 ppm max.
				WOH			0.0'-23.0': 4" steel casing set, grouted and allowed to set overnight before continuing to drill deeper with 3.25" HSA.	
				2				
				2	23			23'-25': N/O, N/S
		10	0.1'	1				PID = 0.0 ppm max.
				1				
				2				
				4	25			25'-27': N/O, N/S
		11	0.75'	4				PID = 0.0 ppm max.
				8				
				12				
				22	27			27'-29': N/O, N/S
		12	1.2'	16				PID = 0.0 ppm max.
				18				
				9				
				6	29			29'-31': N/O, N/S
		13	1.0'	6				PID = 0.0 ppm max.
				11				
				9				
				WOH	31		31.0'-33.5': SP-Brownish gray f SAND, tr silt, m to c sand and shell fragments.	31'-33': N/O, N/S
		14	1.1'	1				PID = 0.0 ppm max.
				10			32.0'-32.1': GP-F rounded GRAVEL and c SAND.	
				10				
				3	33			33'-35': N/O, N/S
		15	1.5'	3				PID = 0.0 ppm max.
				4				
				5				
				14	35		35.0'-37.0': ML-Dk gray silty CLAY and tr f sand grading to dk brown SILT, tr f sand and clay.	
		16	1.9'	10				

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-12/MW-12B

BORING LOG

SHEET 3 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS			**ELEVATION/DATUM**
In the eastern section of the covered garage on 10th Ave between 18th and 19th St.			8.80/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Mike Burke/Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25"/3.25" Hollow Stem Auger	9/11/2004	9/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50.75'	9.6'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			13				35'-37': N/O, N/S
			6				PID = 0.0 ppm max.
			6	37			37'-39': N/O, N/S
	17	2.0'	8			37.0'-44.7': SW-Brown f to m SAND, some c sand and silt, tr f rounded gravel and sm pockets of silty clay.	PID = 0.0 ppm max.
			10				
			12				
			10	39			39'-41': N/O, N/S
	18	2.0'	13				PID = 0.0 ppm max.
			15				
			14				
			4	41			41'-43': N/O, N/S
	19	2.0'	4				PID = 0.0 ppm max.
			7				
			10				
			12	43			43'-45': N/O, N/S
	20	2.0'	8				PID = 0.0 ppm max.
			13				
			12			44.7'-50.5': SW-Red f to c SAND, tr silt and gravel.	
			14	45			45'-47': N/O, N/S
	21	2.0'	12				PID = 0.0 ppm max.
			16				
			16				
				47			47'-49': N/O, N/S
	22	1.75'	19				PID = 0.0 ppm max.
			26				
			27				
			6	49			49'-51': N/O, N/S
	23	1.75'	16				PID = 0.0 ppm max.
			24				
			14			E.O.B. at 50.75' bgs.	
				51			
						Well set at 49' bgs.	
						Screen Interval from 47.0' to 37.0' bgs with a 2' sump from 49.0' to 37.0' bgs.	
				53			

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-14A

BORING LOG

SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS			**ELEVATION/DATUM**
In the western section of the covered garage on 10th Ave between 18th and 19th St.			8.90/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	10/3/2004	10/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': CONCRETE and rebar.	
				1		0.5'-2.0': Fill-Black SILT, f to c SAND and some gravel.	1'-2': Solvent-like odor, N/S PID = 244 ppm max.
						2.0'-11.0': Fill-Dk brown SILT, f to m SAND, some c sand and gravel, tr wood fibers, cobbles and boulders.	2'-3': Solvent-like odor, N/S PID = 97.1 ppm max.
				3		Fingerprint sample collected: W18STMGP-B14A-34	3'-4': Solvent-like odor, N/S PID = 96.8 ppm max.
							4'-5': Solvent-like odor, N/S PID = 98.6 ppm max.
				5		Sample collected: W18STMGP-B14-45	5'-6': Solvent-like odor, N/S PID = N/A
							6'-7': N/O, N/S PID = 0.0 ppm max.
			4	7			7'-9': Sl petroleum odor, N/S
	1	0.5'	10				PID = 135 ppm max.
			14				
			16				
			8	9			9'-11': Sl petroleum odor, N/S
	2	0.7'	14				PID = 39.9 ppm max.
			6				
			9		▼		
			1	11		11.0'-19.0': Fill-Brown f to c SAND, tr silt, gravel and wood fibers.	11'-13': Sl petroleum odor, N/S
	3	1.0'	1				PID = 2.6 ppm max.
			1			Sample collected: W18STMGP-B14A-1113	
			1				
			3	13			13'-15': Sl petroleum odor, N/S
	4	2.0'	6				PID = 0.0 ppm max.
			5				
			8				
			8	15			15'-17': Sl petroleum odor, N/S
	5	2.0'	6				PID = 2.1 ppm max.
			3				
			1				
			1	17			
	6	2.0'	1			Sample collected: W18STMGP-B14A-1719	17'-19': Sl petroluem odor, N/S PID = 2.3 ppm max.

TRC

BORING No.: SB-14A

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	West of Gas Holders #3 and #4	
ADDRESS			**ELEVATION/DATUM**
In the western section of the covered garage on 10th Ave between 18th and 19th St.			8.90/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	10/3/2004	10/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			2				
			2				
			1	19		19.0'-27.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	19'-21': N/O, N/S
	7	2.0'	1				PID = 0.0 ppm max.
			2				
			3				
			2	21			21'-23': N/O, N/S
	8	2.0'	2				PID = 0.0 ppm max.
			3				
			2				
			1	23		Sample collected: W18STMGP-B14A-2325	23'-25': N/O, N/S
	9	2.0'	2				PID = 0.0 ppm max.
			3				
			2				
				25		E.O.B. @ 25' bgs.	
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: MW-7A

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northeast of Gas Holder #3
ADDRESS		**ELEVATION/DATUM**
Southwest corner of 10th Ave and 19th St on the sidewalk		9.11/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	3.25" Hollow Stem Auger	8/10/2004 / 8/10/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	17' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-0.5': CONCRETE	
				1		0.5'-5.5': Fill-Dk brown SILT, f to c SAND, tr gravel and wood fibers.	1'-2': N/O, N/S PID = 0.0 ppm max.
						2.0': Vertical wood timbers along the east side of the boring.	2'-3': N/O, N/S PID = 0.0 ppm max.
				3			3'-4': N/O, N/S PID = 0.0 ppm max.
				5			4'-5': N/O, N/S PID = 0.0 ppm max.
							5'-6': N/O, N/S PID = 0.0 ppm max.
						5.5'-7.0': Fill-Brown SILT, f SAND, tr m to c sand and gravel.	6'-7': N/O, N/S PID = 0.0 ppm max.
				7		Sample collected: W18STMGP-MW7A-67	
			3			7.0'-9.0': No Recovery.	7'-9': Tr non-MGP related odor, N/S PID = 1.3 ppm max.
	1	0.0'	1				
			2				
			1	9			
			1			9.0'-15.5': Fill-Brown and reddish brown f to c SAND, some silt and tr gravel.	9'-11': Non-MGP related odor, N/S PID = 0.4 ppm max.
	2	0.1'	4				
			8				
			5				
			1	11			11'-13': Non-MGP related odor, N/S PID = Not Available (N/A)
	3	0.1'	1				
			2				
			2				
			1	13			13'-15': Non-MGP related odor, N/S PID = N/A
	4	0.0'	1				
			3				
			5				
			5	15			15'-17': Non-MGP related odor, N/S PID = N/A
	5	0.2'	2				
			4				
			5				
			3				
				17			
						Well set at 16.5' bgs. E.O.B. at 17' bgs Screen interval from 16.0' to 6.0' bgs with a 0.5' sump.	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-07

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northeast of Gas Holder #3
ADDRESS		**ELEVATION/DATUM**
Southwest corner of 19th St and 10th Ave on the sidewalk		9.16/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/9/2004 / 8/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45.5' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0.0'-0.5': CONCRETE	
				1		0.5'-5.5': Fill-Dk brown SILT, f to c SAND, tr gravel and wood fibers.	1'-2': N/O, N/S
							PID = 0.0 ppm max.
						2.0': Vertical wood timbers along the east side of the boring.	2'-3': N/O, N/S
				3			PID = 0.0 ppm max.
							3'-4': N/O, N/S
							PID = 0.0 ppm max.
							4'-5': N/O, N/S
							PID = 0.0 ppm max.
				5			5'-6': N/O, N/S
						5.5'-7.0': Fill-Brown SILT, f SAND, tr m to c sand and gravel.	PID = 0.0 ppm max.
							6'-7': N/O, N/S
					▼	Sample collected: W18STMGP-MW7A-67	PID = 0.0 ppm max.
			2	7		7.0'-9.0': No Recovery.	7'-9': N/O, N/S
	1	0.0'	2				PID = 0.0 ppm max.
			2				
			2				
			1	9		9.0'-15.5': Fill-Brown and reddish brown f to c SAND, some silt and tr gravel.	9'-11': N/O, N/S
	2	0.5'	1			tr interbedded reddish black silt lenses.	PID = 0.0 ppm max.
			3				
			9				
			4	11			11'-13': N/O, N/S
	3	0.05'	3				PID = 0.0 ppm max.
			3				
			3				
			3	13			13'-15': N/O, N/S
	4	0.05'	3				PID = 0.0 ppm max.
			3				
			10				
			28	15			15'-17': N/O, N/S
	5	0.5'	15				PID = 0.0 ppm max.
			11				
			19				
			14	17		17.0'-19.3': Fill-Brown c SAND and GRAVEL, some m sand, tr f sand and silt	17'-19': N/O, N/S
	6	0.4'	22			and brick fragments.	PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northeast of Gas Holder #3
ADDRESS		**ELEVATION/DATUM**
Southwest corner of 19th St and 10th Ave on the sidewalk		9.16/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/9/2004 / 8/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45.5' / 7'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			15			Sample collected: W18STMGP-B07-1719	
			19	19			
			5				19'-21': Sl MGP-related odor, N/S
	7	0.3'	12				PID = 0.0 ppm max.
			14				
			19	21			
			20			21.0'-33.4': Fill-Brown m SAND, tr c sand and silt.	21'-23': Sl MGP-related odor, N/S
	8	0.5'	50/2				PID = 0.4 ppm max.
				23			
			9				23'-25': Sl MGP-related odor, N/S
	9	0.6'	12				PID = 3.7 ppm max.
			13				
			16	25			
			5				25'-27': Sl MGP-related odor, N/S
	10	1.0'	9				PID = 0.4 ppm max.
			16				
			14	27			
			12			Sample collected: W18STMGP-B07-2729	27'-29': Sl MGP-related odor, N/S
	11	1.2'	19				PID = 0.3 ppm max.
			22				
			25	29			
			14				29'-31': Sl MGP-related odor, N/S
	12	1.75'	12				PID = 0.0 ppm max.
			9				
			11	31			
			2			31.0'-30.7': Brick fragments present in spoon.	31'-33': Sl MGP-related odor, N/S
	13	0.7'	5				PID = 0.0 ppm max.
			12				
			10	33			
			22				33'-35': Sl MGP-related odor, N/S
	14	0.4'	14			33.4'-41.0': ML-Reddish brown SILT and some v f to f sand.	PID = 0.0 ppm max.
			15				
			19	35			
			31				35'-37': N/O, N/S
	15	1.0'	50				PID = 0.0 ppm max.

TRC

BORING No.: SB-07

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Northeast of Gas Holder #3	
ADDRESS		**ELEVATION/DATUM**	
Southwest corner of 19th St and 10th Ave on the sidewalk		9.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/9/2004	8/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45.5'	7'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			50/2				
				37			
			85				37'-39': N/O, N/S
	16	1.0'	85/2				PID = 0.0 ppm max.
				39			
			24				39'-41': N/O, N/S
	17	1.0'	35				PID = 0.0 ppm max.
			50/2				
				41			
			6			41.0'-45.5': ML-Reddish brown v f SAND and some silt.	41'-43': N/O, N/S
	18	0.5'	20				PID = 0.0 ppm max.
			50/3				
				43			
			6			Sample collected: W18STMGP-B07-4345	43'-45': N/O, N/S
	19	0.5'	20				PID = 0.0 ppm max.
			50/3				
				45			
			50/0			45.5': Refusal (believed to be Bedrock-Schist)	
						E.O.B. at 45.5' bgs (Refusal at Bedrock)	
				47			
				49			
				51			
				53			

TRC

BORING No.: SB-08

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holders #3 and #4	
ADDRESS		**ELEVATION/DATUM**	
10th Avenue western sidewalk between 18th and 19th St		9.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/11/2004	8/11/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45'	7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.5': CONCRETE	
				1		0.5'-5.0': Fill-Grayish brown SILT, f to c SAND, rounded GRAVEL and pieces of glass.	1'-2': Strong petroleum odor, N/S, sheen PID = 406 ppm max.
							2'-3': Strong petroleum odor, N/S, sheen PID = 97.1 ppm max.
				3			3'-4': Strong petroleum odor, N/S, sheen PID = 96.8 ppm max.
							4'-5': Strong petroleum odor, N/S, sheen PID = 98.6 ppm max.
				5		Sample collected: W18STMGP-B08-45	
						5.0'-9.0': Fill-Grayish brown SILT, f to c SAND and ltl to tr gravel and cobbles.	5'-6': Strong petroleum odor, N/S, sheen PID = 238 ppm max.
				7			
			8				7'-9': Petroleum odor, N/S
	1	0.6'	4		▼		PID = 26.5 ppm max.
			3				
			3				
			3	9		9.0'-13.0': Fill-Grayish brown SILT, f to c SAND and ltl to tr gravel, cobbles and tr interbedded reddish black silt lenses.	9'-11': Petroleum odor, N/S PID = 34.7 ppm max.
	2	0.2'	4				
			12				
			8				
			8	11		Sample collected: W18STMGP-B08-11.011.5	11'-13': Petroleum odor, N/S PID = 61.2 ppm max.
	3	0.2'	6				
			7				
			7				
			11	13		13.0'-17.5': Fill-Blackish gray SILT and f to m SAND	13'-15': Sl petroleum odor, tr sheen, N/S
	4	0.8'	6				PID = 2.4 ppm max.
			4				
			3			Sample collected: W18STMGP-B08-14.515.0	
			7	15			15'-17': N/O, N/S
	5	0.2'	12				PID = 0.0 ppm max.
			24				
			17				
			7	17			17'-19': N/O, N/S
	6	1.3'	12			17.5'- 23.1': Fill-Reddish brown vf to m SAND, some SILT and tr f gravel.	PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holders #3 and #4
ADDRESS		**ELEVATION/DATUM**
10th Avenue western sidewalk between 18th and 19th St		9.97/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/11/2004 / 8/11/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			6				
			9	19			
			3				19'-21': N/O, N/S
	7	1.2'	2				PID = 0.0 ppm max.
			3				
			6	21			
			3				21'-23': N/O, N/S
	8	1.5'	8				PID = 0.4 ppm max.
			5				
			11	23			
			2			23.1'-33.0': SM-Reddish brown SILT and some vf to m sand.	23'-25': N/O, N/S
	9	1.4'	4				PID = 3.7 ppm max.
			6				
			10	25			
			5				25'-27': N/O, N/S
	10	1.0'	5				PID = 0.4 ppm max.
			11				
			10	27			
			4				27'-29': N/O, N/S
	11	1.7'	9				PID = 2.1 ppm max.
			8				
			18	29			
							29'-31': N/O, N/S
	12	1.7'					PID = 0.0 ppm max.
			5	31			
							31'-33': N/O, N/S
	13	1.6'	5				PID = 0.0 ppm max.
			9				
			22				
			16	33		33.0'-34.8': SW-SAND grading from f to c and some silt	33'-35': N/O, N/S
	14	1.4'	25				PID = 0.0 ppm max.
			50/1				
						34.8'-45.0': Refusal (believed to be Bedrock-Schist)	
			50/0	35			35'-37': N/O, N/S
	15	0.0'					PID = 0.0 ppm max.

TRC

BORING No.: SB-08

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holders #3 and #4	
ADDRESS		**ELEVATION/DATUM**	
10th Avenue western sidewalk between 18th and 19th St		9.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/11/2004	8/11/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45'	7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			9	37			37'-39': N/O, N/S
	16	1.6'	50/1				PID = 0.0 ppm max.
				39			
			50/2				39'-41': N/O, N/S
	17	0.8'					PID = 0.0 ppm max.
				41			
							41'-43': N/O, N/S
	18	0.9'					PID = 0.0 ppm max.
				43			
							43'-45': N/O, N/S
	19	0.9'					PID = 0.0 ppm max.
				45		E.O.B. at 45' bgs.	
				47			
				49			
				51			
				53			

TRC

BORING No.: SB-13

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northwest of Gas Holders #2 and #3.
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 19th St between 10th and 11th Ave		6.21/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Lloyd Adams	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME 75	4.25" Hollow Stem Auger	10/10/2004	10/10/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	35'	7'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				0		0.0'-0.5': CONCRETE	
						0.5'-5.0': Fill-M brown v f to c SAND and f to c GRAVEL.	
				1			1'-2': PID = 4.5 ppm max.
							2'-3': PID = 6.3 ppm max.
				3			3'-4': PID = 9.4 ppm max.
							4'-5': PID = 0.7 ppm max.
				5			
			2			5.0'-23.5': Fill-Brown SILT, f to c SAND, some gravel, tr clay, brick fragments and wood fibers.	5'-7': N/O, N/S
	1	0.2'	3				PID = 12.2 ppm max.
			3			Samp;le collected: W18STMGP-SB13-67	
			2		▼		
			1	7			7'-9': N/O, N/S
	2	2.2'	1				PID = 0.0 ppm max.
			2				
			1				
			1	9			9'-11': N/O, N/S
	3	0.3'	2				PID = 0.0 ppm max.
			2				
			2				
			1	11			11'-13': Petroleum odor in shoe, N/S
	4	0.5'	2				PID = 30.3 ppm max. in shoe
			1				
			3				
			2	13		13': Reddish f to c SAND and some silt in shoe.	13'-15': N/O, N/S
	5	0.9'	2				PID = 0.0 ppm max.
			3				
			3				
			3	15			15'-17': No Recovery
	6	0.0'	1				
			1				
			1				
			1	17			
			3				17'-19': N/O, N/S
	7	1.7'	3				PID = 0.0 ppm max.

TRC

BORING No.: SB-13

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northwest of Gas Holders #2 and #3.
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk 19th St between 10th and 11th Ave		6.21/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Lloyd Adams	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	4.25" Hollow Stem Auger	10/10/2004 / 10/10/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	35' / 7'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			2				
			2				
			2	19			19'-21': N/O, N/S
	8	1.2'	5				PID = 0.0 ppm max.
			5				
			10				
			2	21			21'-23': N/O, N/S
	9	1.2'	2				PID = 0.0 ppm max.
			5				
			3				
			1	23		23.5'-24.6': Fill-Reddish brown f SAND, some silt and tr m to c sand and gravel.	23'-25': N/O, N/S
	10	2.0'	3				PID = 0.0 ppm max.
			2				
			4			24.6-27': Fill-Brown f to m SAND, SILT, tr c sand and gravel. DK gray silty clay in the shoe.	
			3	25			25'-27': N/O, N/S
	11	2.0'	4			Sample collected: W18STMGP-SB13-2527 Duplicate collected: W18STMGP-SB13A-2527	PID = 0.0 ppm max.
			4				
			3				
			WOH/12"	27		27'-33': ML-Dk gray silty CLAY, tr f sand and shell fragments.	27'-29': N/O, N/S
	12	1.0'					PID = 0.0 ppm max.
			3			Sample collected: W18STMGP-SB13-2729	
			2				
			4	29			29'-31': N/O, N/S
	13	1.5'	4				PID = 0.0 ppm max.
			3				
			4				
			4	31			31'-33': N/O, N/S
	14	0.0'	5				PID = 0.0 ppm max.
			10				
			2				
			Void	33		33.0'-35.0': GW-Gray f to c SAND and rounded f GRAVEL.	33'-35': N/O, N/S
	15	1.7'	Void				PID = 0.0 ppm max.
			5				
			4				
				35			
						E.O.B. at 35' bgs.	

TRC

BORING No.: SB-15

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern section of the Gas Light Co. Storage Yard
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 19th St near West Side Highway		5.90/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/19/2004 / 8/19/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-0.5': CONCRETE and rebar.	
				1		0.5'-2.0': Fill-Brownish black f to c SAND, some silt, gravel, slag and coal fragments.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3		2.0'-4.9': Fill-Reddish brown SILT, f to m SAND, tr c sand, gravel, cobbles, mica, brick fragments and slag.	2'-3': N/O, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5		Sample collected: W18STMGP-B15-45 4.9'-5.0': Fill-Brownish black SILT, f SAND and tr gravel. 5.0'-8.0': Fill-Brown SILT, f to c SAND, tr gravel and wood fibers.	5': Strong petroleum odor, sheen, visible product and black staining. PID = 1,806 ppm max.
	1	0.1'	3 3 2	7	▼	Sample collected: W18STMGP-B15-56	5'-7': Strong petroleum odor, sheen, visible product and black staining. PID = 1,852 ppm max.
	2	1.25'	1 1 1 1	9		Sample collected: W18STMGP-B15-79 8.0'-18.5': Fill-Grayish brown SILT, f to c SAND, some gravel, tr wood fibers, brick fragments and shell fragments.	7'-9': Strong petroleum odor, sheen, visible product and black staining. PID = 2,364 ppm max.
	3	1.0'	2 2 5	11		Sample collected: W18STMGP-B15-1113	9'-11': Strong petroleum odor, sheen, visible product and black staining. PID = 848 ppm max.
	4	0.8'	2 5 9	13			11'-13': Strong petroleum odor, sheen, visible product and black staining. PID = N/A
	5	0.3'	3 4 3 11	15			13'-15': Strong MGP-related odor, tr TM odor, visible OLM, tr TM, sheen and black staining. PID = N/A
	6	1.0'	12 8 9 9	17			15'-17': Strong OLM and TM odor, visible OLM and TM, sheen and black staining. PID = 587 ppm max.
	7	1.5'	5 5 5 7				17'-19': Strong OLM and TM odor, visible OLM and TM,

TRC

BORING No.: SB-15

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern section of the Gas Light Co. Storage Yard
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 19th St near West Side Highway		5.90/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/19/2004 / 8/19/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			9				sheen and black staining.
			6				PID = 587 ppm max.
			1	19		19.0'-25.0': ML-Dk gray silt CLAY, tr f sand and shell fragments.	19'-21': Strong OLM and TM odor,
	8	1.75'	3				visible OLM and TM,
			3				sheen and black staining.
			4				PID = 187 ppm max.
			2	21			21'-23': N/O, N/S
	9	2.0'	2				PID = 0.0 ppm max.
			3				
			4				
			1	23		Sample collected: W18STMGP-B15-2325	23'-25': N/O, N/S
	10	2.0'	2				PID = 0.0 ppm max.
			3				
			4				
				25		E.O.B. @ 25' bgs.	
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-26

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Chelsea Piers between 17th and 18th St	
ADDRESS		**ELEVATION/DATUM**	
Chelsea Piers Service Area Road		6.76/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Victor	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	7/26/2004	7/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37'	7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				1		0.0'-2.0': CONCRETE, COBBLESTONES and rebar.	
				3			
				5			
						Sample collected: W18STMGP-B26-6.570	
				7			
			2			7.0'-9.2': Fill-Brown SILT and f SAND.	7'-9': N/O, N/S
	1	0.1'	1				PID = 0.0 ppm max.
			1				
			1				
			2	9			9'-11': N/O, N/S
	2	0.7'	1			9.2'-9.7': Fill-Brownish black SILT, f to m SAND, tr c sand, gravel and wood fibers.	PID = 0.2 ppm max.
			1				
			1				
			1	11		11.0'-13.0': Fill-Brown SILT, f to m SAND, some c sand, tr wood fibers and blk organic material.	11'-13': Sewage-like odor, N/S
	3	2.0'	3				PID = 0.2 ppm max.
			3				
			1				
			WOH	13		13.0'-15.6': Fill-Grayish brown SILT, f to c SAND and tr gravel.	13'-15': N/O, N/S
	4	0.3'	WOH				PID = 0. ppm max.
			1				
			1				
			1	15			15'-17': Sl MGP-related odor, blk staining
	5	0.8'	2			15.6'-15.8': Fill-Gray f to c SAND, GRAVEL and tr silt.	PID = 0.4 ppm max.
			4				
			6				
			7	17		17.0'-19.0': Fill-Dk gray m to c SAND and tr f sand.	17'-19': Sl MGP-related odor, N/S
	6	2.0'	7				PID = 1.8 ppm max.

TRC

BORING No.: SB-26

BORING LOG

SHEET 2 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Chelsea Piers between 17th and 18th St
ADDRESS		**ELEVATION/DATUM**
Chelsea Piers Service Area Road		6.76/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Victor	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-LC60	3.25" Hollow Stem Auger	7/26/2004 / 7/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37' / 7'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			7				
			7				
			8	19		19.0'-19.7': Fill-Dk gray f to c SAND, f to c GRAVEL, tr silt and chunks of red brick	19'-21': Sl MGP-related odor, tr blk staining
	7	0.7'	6				PID = 0.7 ppm max.
			4				
			2				
			8	21		21.0'-23.7': Fill-Dk gray m to c SAND, f to m GRAVEL, tr f sand, silt, clay and muscovite and tr brick fragments.	21'-23': Sl MGP-related odor, blk staining and visible sheen
	8	1.0'	4				PID = 0.6 ppm max.
			10				
			6				
			9	23			23'-25': Sl MGP-related odor, blk staining and visible sheen
	9	0.7'	10				PID = 1.1 ppm max.
			5				
			4				
			10	25		25.0'-25.1': Fill-Dk gray f to c SAND and tr silt.	25'-27': Sl MGP-related odor, blk staining and visible sheen
	10	0.1'	10				PID = 0.1 ppm max.
			8				
			5				
			2	27		27.0'-27.1': Fill-Dk gray SILT, f to m SAND and tr c sand.	27'-29': Sl MGP-related odor, blk staining and visible sheen
	11	0.1'	2				PID = 0.5 ppm max.
			4				
			9				
			2	29		29.0'-32.0': Fill-Dk gray f to c SAND, GRAVEL, tr silt and wood fibers.	29'-31': Sl MGP-related odor, blk staining, visible sheen and visible OLM
	12	2.0'	1				PID = 8.4 ppm max.
			1				
			1				
			2	31		Sample collected: W18STMGP-B26-3133	31'-33': Sl MGP-related odor, blk staining, visible sheen and OLM in sand
	13	2.0'	1				PID = 17.4 ppm max.
			1			32.0'-37.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	
			2				
			WOH	33			33'-35': N/O, N/S
	14	2.0'	WOH				PID = 0.2 ppm max.
			WOH				
			2				
			WOH	35			35'-37': N/O, N/S
	15	2.0'	WOH			Sample collected: W18STMGP-B26-3537	PID = 0.0 ppm max.

TRC

BORING No.: SB-26

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Chelsea Piers between 17th and 18th St	
ADDRESS		**ELEVATION/DATUM**	
Chelsea Piers Service Area Road		6.76/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Victor	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	3.25" Hollow Stem Auger	7/26/2004	7/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37'	7'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
			2 4	37		E.O.B. at 37' bgs	
				39			
				41			
				43			
				45			
				47			
				49			
				51			
				53			

DESCRIPTION OF SOILS: f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight

REMARKS: (PID, STAINING, ODORS, ETC.); N/S = No Staining; N/O = No odors

TRC

BORING No.: SB-27

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of the Retort House along the Hudson River
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at the southern end of Chelsea Piers		6.12/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004 / 7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45' / 5.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0.0'-2.0': COBBLESTONE AND CONCRETE	
				1			
				3			
						Sample collected: W18STMGP-B27-5.05.5	
						Sample collected: W18STMGP-B27-5.96.3	
				5	▼	5.0'-25.0': Fill-Brown SILT, v f to c SAND, brick fragments, wood fibers and ash from 5.0'-19.0'.	5'-7': N/O, N/S
	1	0.1'					PID = 0.0 ppm max.
						Sample collected: W18STMGP-B27-6.06.5	
				7			
			8				7'-9': N/O, N/S
	2	0.1'	4				PID = 0.0 ppm max.
			3				
			3				
			3	9			9'-11': N/O, N/S
	3	1.6'	4				PID = 0.0 ppm max.
			12				
			8				
			8	11			11'-13': N/O, N/S
	4	1.7'	6				PID = 0.0 ppm max.
			7				
			7				
			11	13			13'-15': N/O, N/S
	5	1.4'	6				PID = 0.0 ppm max.
			4				
			3				
			7	15			15'-17': N/O, N/S
	6	0.3'	12				PID = 0.4 ppm max.
			24				
			17				
			7	17		Shell fragments present in fill.	17'-19': N/O, N/S
	7	0.5'	12				PID = 0.2 ppm max.

TRC

BORING No.: SB-27

BORING LOG

SHEET 2 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of the Retort House along the Hudson River
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at the southern end of Chelsea Piers		6.12/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004 / 7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45' / 5.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			6				
			9	19			
			3				19'-21': N/O, N/S
	8	1.2'	2				PID = 0.2 ppm max.
			3				
			6				
			3	21		Increase in silt content from 21.0' to 25.0'.	21'-23': N/O, N/S
	9	1.0'	8				PID = 0.0 ppm max.
			5				
			11				
			2	23			23'-25': N/O, N/S
	10	1.0'	4				PID = 0.0 ppm max.
			6				
			10				
			5	25		25.0'-27.0': SM-SILT and v f to m SAND.	25'-27': N/O, N/S
	11	0.3'	5				PID = 3.6 ppm max.
			11				
			10				
			4	27		27.0'-31.0': ML-Gray clayey SILT and f sand lenses (approx. 0.5" thick).	27'-29': N/O, N/S
	12	0.6'	9				PID = 0.0 ppm max.
			8				
			18				
				29			29'-31': N/O, N/S
	13	1.4'					PID = 0.0 ppm max.
			5	31		31.0'-41.3': SW-F to c SAND, some silt, gravel and brick fragments.	31'-33': N/O, N/S
	14	1.2'	5				PID = 0.0 ppm max.
			9				
			22				
			16	33			33'-35': N/O, N/S
	15	0.3'	25				PID = 0.0 ppm max.
			50/1				
				35			
			50/0				35'-37': N/O, N/S
	16	0.8'					PID = 0.0 ppm max.

TRC

BORING No.: SB-27

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of the Retort House along the Hudson River
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at the southern end of Chelsea Piers		6.12/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004 / 7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	45' / 5.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			9	37			37'-39': N/O, N/S
	17	0.5'	50/1				PID = 0.0 ppm max.
				39			
			50/2				39'-41': N/O, N/S
	18	0.8'					PID = 0.0 ppm max.
				41		Sample collected: W18STMGP-B27-40.941.3	
						41.3'-45.0': ML-Gray silty CLAY.	41'-43': Sl odor, visible sheen, N/S
	19	1.6'					PID = 10.0 ppm max.
				43			
			3				43'-45': N/O, N/S
	20	1.5'	6				PID = 12.0 ppm max.
			5			Sample collected: W18STMGP-B27-44.545	
			9	45			
						E.O.B. at 45' bgs	
				47			
				49			
				51			
				53			

TRC

BORING No.: SB-19

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.56/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/2/2004	5/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	21'	9'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt	
				1		0.5'-1.0': Fill-Dk brown GRAVEL, CONCRETE and COBBLES.	
						1.0'-2.0': Fill-Dk brown GRAVEL, CONCRETE and COBBLES.	1': N/O, N/S, PID = 0.3 ppm max.
						2.0'-3.0': Fill-Dk brown f to c SAND, some silt and gravel.	2': N/O, N/S, PID = 0.3 ppm max.
				3		3.0'-4.0': Fill-Lt brown f to c SAND, some silt, gravel and tr brick fragments.	3': N/O, N/S, PID = 0.3 ppm max.
						4.0'-5.0': Fill-Brown f to c SAND and some gravel.	4': N/O, N/S, PID = 0.7 ppm max.
				5		5.0': Fill-Lt brown f to c SAND, GRAVEL, some silt and cobbles.	5': N/O, N/S, PID = 0.3 ppm max.
	1	0.3'	11 5 5 5			5.0'-5.3': Fill-Brown and tan SILT, f to c SAND, tr gravel and brick fragments.. Sample collected: W18STMGP-B19-57	5'-7': N/O, N/S PID = 0.0 ppm max.
				7		7.0'-9.0': No Recovery: Red brick in shoe.	7'-9': N/A
	2	0.0'	15 22 15				
			11	9	▼		
	3	0.05'	2 1 1 1			9.0'-9.05': Red brick and void space.	9'-11': Sl MGP-related odor, N/S PID = N/A
				11		11.0'-11.1': Fill-Brown SILT, f to c SAND, tr gravel and brick fragments.	11'-13': MGP-related odor, N/S, sheen
	4	0.1'	26 28 5				PID = 0.0 ppm max.
			8	13		13.0'-13.5': Fill-Brown f to c silty SAND, GRAVEL, brick fragments and shell fragments.	13'-15': MGP-related odor, N/S, sheen
	5	0.1'	16 8 2 1				PID = 0.2 ppm max.
				15		15.0'-15.2': Fill-Brown f to c silty SAND, GRAVEL, brick fragments and shell fragments.	15'-17': N/O, N/S
	6	1.0'	4 2 1 3			15.2'-16.0': Fill-Dk grayish black (blk) m to c SAND, tr f sand, silt, gravel and brick fragments.	PID = 0.4ppm max.
				17		17.0'-17.2': Fill-Dk gray/blk m to c SAND, tr f sand, silt, gravel and brick fragments.	17'-19': Strong ammonnia odor, sheen, heavy blk staining
	7	0.8'	6 4			17.2'-17.8': Fill-Dk gray silty CLAY, f to m SAND and wood fibers.	

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.56/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/2/2004	5/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	21'	9'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
		8	0.4'	2 10 2 6 4 2	19 21 23 25 27 29 31 33 35		Sample collected: W18STMGP-B19-1719 19.0'-19.4': Fill- Dk grayish blk SILT, f to c SAND, GRAVEL and some brick fragments. E.O.B. at 21' bgs (Refusal at 21' bgs)	PID = 8.6 ppm max. 19'-21': Strong ammonia odor, sl sheen, heavy blk staining PID = 5.6 ppm max.

TRC

BORING No.: SB-20

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.02/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/2/2004	5/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	51'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt and subbase.	
				1		0.5'-3.0': Fill-Dk gray SILT, f to c SAND and GRAVEL (0.9'-1.2': layer of cobblestone).	1': N/O, N/S PID (headspace) = 0.8 ppm max.
				3		3.0'-5.0': Fill-Lt brown SILT, f to c SAND, GRAVEL, tr clay and brick fragments.	2': N/O, N/S PID (headspace) = 2.1 ppm max. 3': N/O, N/S PID (headspace) = 0.7 ppm max.
				5		5.0': Fill-Lt brown SILT, f to c SAND, GRAVEL, tr clay, brick fragments. glass and concrete.	5': N/O, N/S PID (headspace) = 1.4 ppm max.
			4				5'-7': N/O, N/S
	1	0.6'	4			5.0'-5.6': Fill/SM-Brown SILT and f to c SAND.	PID = 0.0 ppm max.
			4				
			4	7			
			3			7.0'-8.0': Fill/SM-Tan SILT and f to c SAND and concrete in shoe.	7'-9': N/O, N/S
	2	1.0'	4				PID = 0.0 ppm max.
			11				
			8	9			
			14			9.0'-10.0': Fill/SW-Orangish brown f to c SAND and tr silt.	9'-11': N/O, N/S
	3	1.0'	10			Sample collected: W18STMGP-B20-911	PID = 0.0 ppm max.
			6				
			5		▼		
			2	11		11.0'-11.5': Fill/SM-Brown SILT and f to m SAND.	11'-13': Sl odor, N/S
	4	0.8'	3			11.5'-11.8': Fill/SW-Brown f to c SAND and tr gravel.	PID = 0.0 ppm max.
			2				
			3	13			
			1			13.0'-13.2': Fill/SW-Brown f to c SAND and tr gravel.	13'-15': Sl odor, N/S
	5	1.2'	5			13.2'-14.2': Fill/SP-Blk f to m SAND.	PID = 0.2 ppm max.
			5			Sample collected: W18STMGP-B20-1315	
			9	15			
			5			15.0'-15.1': Fill/SW-Brown f to m SAND, tr c sand and gravel.	15'-17': N/O, N/S
	6	0.1'	3				PID = 0.2 ppm max.
			6				
			8	17			
			4			17.0'-17.2': Fill/SW-Brown f to m SAND, tr c sand and gravel.	17'-19': N/O, N/S
	7	1.2'	5			17.2'-18.2': ML-Gray silty CLAY, tr f sand and shell fragments.	PID = 0.4 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	SE corner of DEA Parking Lot
ADDRESS		**ELEVATION/DATUM**
DEA Parking Lot		10.02/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/2/2004 / 5/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	51' / 11'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
				9				
				7				
				7	19		19.0'-20.0': ML-Gray silty CLAY, tr f sand and shell fragments.	19'-21': N/O, N/S
		8	1.8'	26			Sample collected: W18STMGP-B20-1921	PID = 1.1 ppm max.
				25			20.0'-20.8': SP-Gray and orangish brown c SAND and shell fragments with gray silty, f sandy clay in very tip of spoon.	
				21				
				7	21		21.0'-21.5': SC-Intermixed brownish tan f to c SAND and silty CLAY with shell fragments.	21'-23': N/O, N/S
		9	1.5'	7				PID = 0.4 ppm max.
				18				
				16				
				10	23		23.0'-23.5': SP-Brown c SAND, tr gravel and shell fragments.	23'-25': N/O, N/S
		10	0.5'	9				PID = 0.0 ppm max.
				12				
				14				
				28	25		25.0'-26.0': SP-Grayish brown f to m SAND with 1" clay lense.	25'-27': N/O, N/S
		11	1.0'	20				PID = 0.2 ppm max.
				16				
				19				
				9	27		27.0'-28.0': SP-Olive gray/brown f SAND, tr m sand and silt.	27'-29': N/O, N/S
		12	1.0'	7				PID = 0.0 ppm max.
				12				
				4				
				8	29		29.0'-29.95': SP-Reddish brown m SAND.	29'-31': N/O, N/S
		13	1.2'	6			29.95'-30.2': SM-Brown SILT and f SAND.	PID = 0.0 ppm max.
				5				
				9				
				8	31		31.0'-33.0': ML-Olive brown SILT and tr clay.	31'-33': N/O, N/S
		14	2.0'	19				PID = 0.0 ppm max.
				21				
				26				
				19	33		33.0'-34.0': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	33'-35': N/O, N/S
		15	1.0'	31				PID = 0.0 ppm max.
				24				
				37				
				17	35		35.0'-36.0': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	35'-37': N/O, N/S
		16	1.0'	15				PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.02/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/2/2004	5/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	51'	11'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				19				
				25				
				13	37		37.0'-38.0': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	37'-39': N/O, N/S
		17	1.0'	14				PID = 0.0 ppm max.
				10				
				10				
				14	39		39.0'-39.5': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	39'-41': N/O, N/S
		18	0.5'	9				PID = 0.0 ppm max.
				10				
				12				
				5	41		41.0'-41.5': SP-Brown vc SAND and tr clay.	41'-43': N/S, sl odor, sl sheen
		19	2.0'	12			41.5'-43.0': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	PID = 0.5 ppm max.
				22				
				16			Sample collected: W18STMGP-B20-4143 (Duplicate: W18STMGP-B61-4143)	
				25	43		43.0'-44.3': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	43'-45': N/S, sl non MGP-related odor
		20	1.3'	31				PID = 2.1 ppm max.
				50				
				2				
				14	45		45.0'-46.2': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	45'-47': N/O, N/S and sl sheen
		21	1.2'	17				PID = 0.4 ppm max.
				15				
				15				
				11	47		47.0'-48.5': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	47'-49': N/O, N/S and sl sheen
		22	1.5'	15				PID = 1.5 ppm max.
				13				
				12				
				25	49		49.0'-50.0': GW-Subangular/rounded f GRAVEL and vc SAND (river-like sediments).	49'-51': N/O, N/S and sl sheen
		23	1.0'	22			Sample collected: W18STMGP-B20-4951	PID = 0.2 ppm max.
				28				
				17				
					51		E.O.B. at 51' bgs	
					55			

TRC

BORING No.: SB-21

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.15/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/4/2004	5/4/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	23'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				1			0-1': N/O, N/S PID (headspace) = 3.5ppm max.
				3			1-2": N/O, N/S PID (headspace) = 4.5 ppm max.
				5			2'-3': N/O, N/S PID (headspace) = 2.8 ppm max.
							3'-4': N/O, N/S PID (headspace) = 2.6 ppm max.
							4'-5': N/O, N/S PID (headspace) = 2.1 ppm max.
			50/2			No Recovery - Brick and conrete in shoe.	5'-7': N/A
	1	0.0'		7			
			75/5			7.0'-7.1': Fill/SM-Dk gray SILT, SAND, GRAVEL and some rock fragments.	7'-9': Organic odor, N/S and sheen
	2	0.1'					PID = 8.6 ppm max.
			25	9		9.0'-9.3': Fill/SM-Blk SILT, f to m SAND and rock in top of spoon.	9'-11': Sl organic odor, N/S
	3	0.3'	50				PID = 3.0 ppm max.
			50/4				
				11	▼		
			20			11.0'-11.4': Fill/SM-Brown and blk SILT, f to m SAND, rock fragments and large rock fragment in shoe.	11'-13': N/O, N/S
	4	0.4'	50				PID = 1.2 ppm max.
			50/3			Sample collected: W18STMGP-B21-1113	
				13			
			16			13.0'-13.9': Fill/SM-Lt brown and gray SILT, f SAND, tr m sand and wood fibers.	13'-15': Sl organic odor, N/S
	5	0.9'	20				PID = NA
			16				
			45	15			
			50			15.0'-15.5': Fill/SP-Light brown and gray c SAND, tr silt and wood fibers.	15'-17': N/O, N/S
	6	0.5'	48			Sample collected: W18STMGP-B21-1517	PID = N/A
			11				
			18	17			
			6			17.0'-18.7': ML-Gray silty CLAY and shell fragments.	17'-19': N/O, N/S
	7	1.7'	3				PID = 0.0 ppm max.

TRC

BORING No.: SB-21

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.15/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/4/2004	5/4/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	23'	11'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			3				
			5	19			
			2			19.0'-19.5': ML-Gray silty CLAY and shell fragments.	19'-21': N/O, N/S
	8	0.5'	2				PID = 2.4 ppm max.
			4				
			3	21			
			4			21'-22': ML-Gray silty CLAY and shell fragments.	21'-23': N/O, N/S
	9	1.0'	4			Sample collected: W18STMGP-B21-2123	PID = 0.0 ppm max.
			5				
			6	23			
						E.O.B. at 23' bgs	
				25			
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-22

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.99/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Lisa Wasiowich	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt	
				1			1': N/O, N/S, PID = 0.3 ppm max.
							2': N/O, N/S, PID = 0.3 ppm max.
				3			
			31			3.0'-3.3': Fill-Blk f to m SAND and tr f gravel.	3'-5': N/O, N/S
	1	0.8'	32			3.3'-3.4': Gray crystalline rock.	PID (headspace) = 2.5 ppm max.
			9			3.4'-3.8': Fill-Brown f to c SAND and tr brick fragments.	
			7				
			30	5		5.0'-5.1': Gray crystalline rock.	5'-7': N/O, N/S
	2	0.3'	50/3			5.1'-5.3': Fill-Brown f to c SAND and tr brick fragments.	PID (headspace) = 8.0 ppm max.
				7			
			10			7.0'-7.1': Fill/SW-Blk f to c SAND.	7'-9': N/O, N/S
	3	0.1'	4				PID (headspace) = 3.5 ppm max.
			6				
			7				
			5	9		9.0'-9.5': Fill/SW-Blk f to c SAND, tr f to c gravel and 2" diameter tan crystalline rock.	9'-11': N/O, N/S
	4	0.4'	15				PID (headspace) = 4.7 ppm max.
			7				
			9		▼		
			15	11		11.0'-11.3': Fill/SW-Dk brown f to c SAND and tr silt.	11'-13': Sl odor, N/S
	5	0.6'	14			11.3'-11.6': Fill/SW-Dk brown f to m SAND and tr silt.	PID (headspace) = 4.3 ppm max.
			4			Sample collected: W18STMGP-B22-1113	
			6				
			11	13		13.0'-13.1': Fill/SM-Gray SILT, f to c SAND and rock in shoe.	13'-15': N/O, N/S and sl sheen
	6	0.2'	9				PID (headspace) = 5.5 ppm max.
			7				
			9				
			2	15		15.0'-15.8': Fill/SM-Gray SILT, f to c SAND and rock in shoe.	15'-17': N/O, N/S and sl sheen.
	7	0.8'	8			Sample collected: W18STMGP-B22-1517	PID (headspace) = 12.7 ppm max.
			9				
			4				
			1	17		17.0'-18.8': ML-Gray SILT, f SAND, some clay and tr organic material.	17'-19': N/S and sl odor and sheen
	8	1.8'	2				PID (headspace) = 15.2 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.99/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27'	11'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				3				
				3				
				1	19		19.0'-19.2': SM-Black SILT and f to c SAND.	19'-21': N/O, N/S
		9	0.2'	2				PID (headspace) = 27.3 ppm max.
				1				
				1				
				3	21		21.0'-21.9': SM-Black SILT and f to c SAND.	21'-23': N/O, N/S
		10	1.9'	2			21.9'-22.9': ML- Dk gray silty CLAY and tr f sand.	PID (headspace) = 5.1 ppm max.
				5				
				7			Sample collected: W18STMGP-B22-2223	
				1	23		23.0'-24.8': ML- Dk gray silty CLAY, shell fragments and tr f sand.	23'-25': N/O, N/S
		11	1.8'	1				PID (headspace) = 7.2 ppm max.
				2				
				2				
				3	25		25.0'-27.0': ML- Dk gray silty CLAY, shell fragments and tr f sand.	25'-27': N/O, N/S
		12	2.0'	2			Sample collected: W18STMGP-B22-2627	PID (headspace) = 4.7 ppm max.
				4				
				5				
					27		E.O.B. at 27' bgs	
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-23

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.40/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25'	9'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0'-0.5': Asphalt and subbase.	
				1		0.5'-1.0': Fill-Dk brown m to c SAND and GRAVEL.	
						1.0'-5.0': Fill-Lt brown m to c SAND, GRAVEL, some brick fragments and tr slag.	
				3			
				5			
			4			5.0'-5.9': Fill-Gray and red f to c SAND and construction debris.	5'-7': Sl odor, N/S
	1	0.9'	6				PID = 3.5 ppm max.
			13				
			8	7			
			8			7.0'-7.8': Fill-Gray and red f to c SAND and construction debris.	7'-9': Sl odor, N/S
	2	0.8'	7				PID = 20.0 ppm max.
			5				
			4		▼		
			2	9		9.0'-9.8': Fill/SW-Blk f to c SAND.	9'-11': Petroleum odor, some staining.
	3	0.8'	1			Sample collected: W18STMGP-B23-911	PID = 8.1 ppm max.
			1				
			1				
			2	11		11.0'-11.1': Fill/SW-Blk f to c SAND.	11'-13': Petroleum odor, some staining.
	4	0.1'	3				PID = 5.7 ppm max.
			2				
			1				
			2	13		13.0'13.3': Fill/SW-Blk f to c SAND.	13'-15': Petroleum odor, some staining.
	5	0.3'	6				PID = 14.5 ppm max.
			7				
			8				
			1	15		15'-16.2': Fill/SW-Blk f to c SAND.	15'-17': Petroleum odor, some staining.
	6	1.2'	1			Sample collected: W18STMGP-B23-1517	PID = 47.0 ppm max.
			1				
			3				
			WOH	17		17.0'-17.5': Fill/SW-F to c SAND and construction debris.	17'-19': Sl odor, N/S
	7	2.0'				17.5'-19.0': ML-Gray silty CLAY.	PID = 20.0 ppm max.

TRC

BORING No.: SB-23

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.40/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	25'	9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
							Sample collected: W18STMGP-B23-1719	
					19			
				WOH			19.0'-20.0': ML-Gray silty CLAY.	19'-21': Sl odor, N/S
		8	1.0'					PID = 5.6 ppm max.
					21			
				1			21.0'-22.7': ML-Gray silty CLAY.	21'-23': Sl odor, N/S
		9	1.7'	1				PID = 2.1 ppm max.
				3				
				1				
				1	23			
				1			23.0'-25.0': ML-Gray silty CLAY.	23'-25': Sl odor, N/S
		10	2.0'	1				PID = 0.0 ppm max.
				1			Sample collected: W18STMGP-B23-2325	
				1	25			
							E.O.B. at 25' bgs	
					27			
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-24

SHEET 1 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW Corner of Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.53/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger/Mud Rotary	8/19/2004	8/31/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
				1, 3, 5, 7, 9, 11, 13, 15, 17	▼ at 5	See Boring Log for MW-24B for Soil Description from 0' to 55' bgs. Hollow Stem Auger (HSA) to 49' bgs.	

f - fine m - medium c - coarse
lt - light dk - dark tr - trace ltl - little sl - slight

(PID, STAINING, ODORS, ETC.)

N/S = No Staining
N/O = No odors

TRC

BORING No.: SB-24

BORING LOG

SHEET 2 OF 5

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW Corner of Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.53/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger/Mud Rotary	8/19/2004	8/31/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
				19 21 23 25 27 29 31 33 35		See Boring Log for MW-24B for Soil Description from 0' to 55' bgs. Hollow Stem Auger (HSA) to 49' bgs. f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW Corner of Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.53/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger/Mud Rotary	8/19/2004	8/31/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	5'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
					37		See Boring Log for MW-24B for Soil Description from 0' to 55' bgs. Hollow Stem Auger (HSA) to 49' bgs.	
					39			
					41			
					43			
					45		45.0'-46.5': ML-Dk gray silty CLAY.	
				6	47		47.0'-48.0': SP-Gray f SAND.	47'-49': N/O, N/S
		1	2.0'	9				PID = 0.0 ppm max.
				12			48.0'-49.0': SP-Gray m to c SAND.	
				15			**Bottom of HSA, Begin Mud Rotary**	
				7	49		49.0'-49.1': GW-Gray f to c SAND, rounded GRAVEL, some silt and tr clay.	49'-51': N/O, N/S and tr sheen.
		2	0.1'	3				PID = 0.8 ppm max.
				3				
				3				
				15	51		51.0'-51.4': GW/SP-Gray rounded GRAVEL grading into brown m to c SAND.	51'-53': N/O, N/S
		3	0.4'	20				PID = 2.8 ppm max.
				7				
				5				
				9	53		53.0'-53.3': GW-Gray angular GRAVEL and some c sand.	53'-55': N/O, N/S
		4	0.3'	6				PID = 1.9 ppm max.
				7				
				9				

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW Corner of Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.53/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger/Mud Rotary	8/19/2004	8/31/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	5'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				7				
				9				
				4	55			
							55.0'-55.5': GW-Gray angular GRAVEL and some c sand.	55'-57': N/O, N/S
		5	1.5'	3			55.5'-56.5': SP-Reddish brown m to c SAND.	PID = 3.9 ppm max.
				3				
				4				
				3	57		57.0'-58.2': SP-Reddish brown f SAND with 0.3' reddish brown silty clay lense at 57.5'.	57'-59': N/O, N/S
		6	1.2'	5				PID = 0.1 ppm max.
				7				
				15				
					59		Drilled continuously using mud rotary from 59.0' to 68.0' bgs without sampling.	
							Mud wasn't circulating out of boring, so ADT attempted to stimulate circulation	
							by drilling continuously.	
					61			
					63			
					65			
					67			
				17			68.0'-69.0': SW- Brown f to c SAND and some gravel.	68'-70': N/O, N/S
		7	1.0'	5	69			PID = 0.0 ppm max.
				8				
				10				
				7			70.0'-71.2': SM-Brown SILT and f SAND.	70'-72': N/O, N/S
		8	1.2'	5	71			PID = 0.0 ppm max.
				4				
				4				
				3			72.0'-73.0': SM-Brown SILT and f SAND.	72'-74': N/O, N/S
		9	1.0'	3				PID = 0.0 ppm max.

TRC

BORING No.: SB-24

SHEET 5 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW Corner of Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.53/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger/Mud Rotary	8/19/2004	8/31/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	5'

WELL CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			3				
			3				
			3	73			
			3				
			4			74.0'-75.0': SM-Reddish brown f SAND and some silt.	74'-76': N/O, N/S
	10	1.0'	7				PID not working due to heat and humidity
			8	75			
			10				
			17			76.0'-77.25': SW-Reddish brown very f to c SAND, tr silt and pockets of gravel.	76'-78': N/O, N/S
	11	1.25'	15				PID not working due to heat and humidity
			17	77			
			17				
			16			78.0'-78.5': SW-Reddish brown very f to c SAND, tr silt and pockets of gravel.	78'-80': N/O, N/S
	12	1.0'	18			78.5'-79.0': SP-Gray m to c SAND.	PID = 0.0 ppm max.
			15	79			
			20				
			8			80.0'-82.0': SP-Gray m to c SAND.	80'-82': N/O, N/S
	13	2.0'	9				PID = 0.0 ppm max.
			10	81			
			7				
			20			82.0'-83.75': SP-Gray m to c SAND.	82'-84': N/O, N/S
	14	2.0'	22				PID = 0.0 ppm max.
			20	83			
			19			83.75'-84.0': GW-Reddish angular GRAVEL and some c sand.	
						Sample Collected: W18STMGP-B24-8284	
						84.0'-86.0': Unable to sample because boring walls would collapse.	
				85			
						86.0': Bedrock	
						E.O.B. at 86' bgs	
				87			
				89			

TRC

BORING No.: MW-24A

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of western border of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.66/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/26/2004	4/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	16'	

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0'-0.5': Asphalt and subbase. 0.5'-1.0': Fill-Blk m to c SAND and tr brick fragments. 1.0'-3.0': Fill-Brownish gray m to c SAND and GRAVEL and some brick fragments and tr slag.	
				3		3.0'-5.0': Fill-Reddish brown m to c SAND and brick fragments.	
				5		5.0'-6.0': Fill-Dk brown SILT, f to c SAND and GRAVEL, some brick fragments, concrete and coal fragments.	5'-7': N/O, some blk staining PID = 1.5 ppm max.
				7		7.0'-8.2': Fill-Dk brown SILT, SAND and GRAVEL, some brick fragments, concrete and coal fragments.	7'-9': N/O, some blk staining PID = 0.4 ppm max.
				9		9.0'-9.6': Fill/SM-Gray/Brown SILT and f to c SAND.	9'-11': N/O, tr blk staining PID = 0.0 ppm max.
				11		11.0'-13.0': Fill/SM-Gray/Brown SILT and f to c SAND.	11'-13': N.O, N/S PID = 0.0 ppm max.
				13		13.0'-13.8': SW-Brown f to c SAND and some silt.	13'-15': N/O, N/S PID = N/A
				15		15.0'-16.1': SP-Dk brown v f SAND, tr silt and organics.	16.0': Well set at 16.0' bgs. Screen Interval: 16.0' - 6.0' bgs.
				17			

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: MW-24B

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of western border of DEA Parking Lot
ADDRESS		**ELEVATION/DATUM**
DEA Parking Lot		8.66/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Scott Fischer
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/24/2004 / 4/25/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2-3" Split Spoon	140 lbs./30"	55' / 9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							0'-0.5': Asphalt	
					1		0.5'-1.5': Fill-Dk brown f to c SAND, m GRAVEL, some brick fragments, glass and plastic.	1': N/O, N/S, PID = 0.3 ppm max.
							1.5'-2.0': Fill-Dk brown f to c SAND, m GRAVEL, some brick fragments, glass and plastic.	2': N/O, N/S, PID = 0.4 ppm max.
					3		2.0': Fill-Lt brown f to c SAND and GRAVEL.	
							3.0': Fill-Layer of red brick laid down in place.	3'-5': N/O, N/S, PID = 0.5ppm max.
							3.0'-5.0': Fill-Lt brown f to c SAND and GRAVEL.	
					5		5.0': Fill-Lt brown f to c SAND and GRAVEL and tr slag.	5': N/S, N/O
				6			5.0': Fill-Lt brown f to c SAND and GRAVEL and tr slag.	5'-7': N/O, some blk staining
		1	1.0'	5				PID = 1.5 ppm max.
				7			Sample collected: W18STMGP-B24-57	
				8	7			
				3			7.0'-8.2': Fill-Dk brown SILT, f to c SAND and GRAVEL, some brick fragments, concrete and coal fragments.	7'-9': N/O, some blk staining
		2	1.2'	3				PID = 0.4 ppm max.
				4			Sample collected: W18STMGP-B24-79	
				4		▼		
				1	9		9.0'-9.6': Fill/SM-Gray/Brown SILT and f to c SAND.	9'-11': N/O, tr blk staining
		3	0.6'	2				PID = 0.0 ppm max.
				1				
				6				
				13	11		11.0'-13.0': Fill/SM-Gray/Brown SILT and f to c SAND.	11'-13': N/O, N/S
		4	2.0'	21				PID = 0.0 ppm max.
				6				
				4				
				1	13		13.0'-13.8': SW-Brown f to c SAND and some silt.	13'-15': N/O, N/S
		5	0.8'	1				PID = N/A
				1				
				4				
				11	15		15.0'-16.1': SP-Dk brown v f SAND, tr silt and organics.	15'-17': N/O, N/S
		6	1.1'	5				PID = N/A
				5				
				9				
				9	17			
		7	0.5'	6				

f - fine m - medium c - coarse
lt - light dk - dark tr - trace ltl - little sl - slight

N/S = No Staining
N/O = No odors

Sand
Bentonite Chips
Concrete
Well Screen

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of western border of DEA Parking Lot
ADDRESS		**ELEVATION/DATUM**
DEA Parking Lot		8.66/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Scott Fischer
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/24/2004 / 4/25/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	55' / 9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				7			17.0'-17.5': GW-Dk gray f to c rounded GRAVEL, some f to c sand and silt, tr organics and non-CGRM wood fibers.	17'-19': N/O, N/S
				7				PID = 0.2 ppm max.
				16	19		19.0'-19.2': SW-Gray f to c SAND, some silt, tr f to c rounded gravel and organics.	19'-21': N/O, N/S
		8	0.8'	9				PID = 0.1 ppm max.
				6				
				14				
				11	21		21.0'-21.5': SW-Gray f to c SAND, some f to m rounded gravel, tr silt.	21'-23': N/O, N/S
		9	0.5'	14				PID = 0.1 ppm max.
				15				
				25				
				16	23		23.0'-23.6': SP-F SAND, tr silt and wood fibers.	23'-25': MGP-related odor, blk staining throughout and visible OLM
		10	0.6'	19				PID = 5.0 ppm max.
				9				
				10				
				37	25		25.0'-26.4': SP-Dk gray f to m SAND and some silt.	25'-27': MGP-related odor, blk staining throughout and visible OLM
		11	1.4'	21			Sample collected (3" spoon): W18STMGP-B24-2527 (MS/MSD collected)	PID = 560 ppm max.
				22				
				18				
				1	27		27.0'-27.5': SP-Gray to brown v f SAND and tr silt.	27'-29': Sl MGP-related odo, tr blk staining, and sheen spots
		12	0.5'	1				PID = 6.5 ppm max.
				1				
				2				
				12	29		29.0'-29.2': SP-Dk gray f SAND and tr c rounded gravel.	29'-31': MGP-related odor, sheen and visible brown TLM blebs
		13	0.2'	16				PID = 6.4 ppm max.
				9				
				11				31'-33': Sl MGP-related odor, N/S
				17	31		31.0'-31.3': SP-Dk gray f SAND.	PID = 4.5 ppm max.
		14	0.3'	11				
				3				33'-33.8': Sl MGP-related odor and tr blk staining, PID = 5.4 ppm max.
				6				
				4	33		33.0'-33.8': ML-Dk gray silty CLAY and tr vf sand.	33.8'-35': N/O, N/S
		15	2.0'	5			33.8'-35.0': ML-Dk gray silty CLAY, tr to some v f sand, shell fragments and organics.	PID = 0.9 ppm max.
				4				Sand
				7				Bentonite Chips
				3	35		0.0'-35.0': 4" steel casing set, grouted and allowed to set overnight before continuing to drill deeper.	Concrete
		16	2.0'	5				Bentonite Chips

TRC

BORING No.: MW-24B

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of western border in DEA Parking Lot
ADDRESS		**ELEVATION/DATUM**
DEA Parking Lot		8.66/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Scott Fischer
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/24/2004 / 4/25/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	55' / 9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				4			Sample collected: W18STMGP-B24-3335 (Duplicate:W18STMGP-B64-3335)	35'-37': N/O, N/S
				7			35.'-37.0': ML-Dk gray silty CLAY, tr to some v f sand, shell fragments and organics.	PID = 0.5 ppm max.
				1	37		37.0'-39.0': ML-Dk gray silty CLAY, tr v f sand and organics.	37'-39': N/O, N/S
		17	2.0'	1				PID = 0.8 ppm max.
				2				
				3				
				1	39		39.0-41.0': ML-Dk gray silty CLAY, tr v f sand, organics and intermittent sand stringers.	39'-41': N/O, N/S
		18	2.0'	1				PID = 0.7 ppm max.
				2				
				3				
				4	41		41.0'-43.0': ML-Dk gray silty CLAY, tr v f sand, c gravel, organics and 2" diameter piece of rounded gneiss.	41'-43': N/O, N/S
		19	2.0'	2				PID = 0.3 ppm max.
				4				
				4				
				3	43		43.0'-44.5': ML-Dk gray silty CLAY.	43'-45': N/O, N/S
		20	2.0'	3				PID = 0.0 ppm max.
				4				
				7			44.5'-45.0': SW-silty CLAY grades to dk gray f to c SAND, SILT and CLAY.	
				10	45		45.0'-47.0': No recovery.	45'-47': N/A
		21	0	11				
				13				
				13				
				6	47		47.0'-48.0': SW-Gray f to c SAND and tr silt.	47'-49': N/O, N/S
		22	1.0'	4				PID = 0.1 ppm max.
				5				
				10				
				15	49		49.0'-50.5': SW-Brown f to c SAND, some silt and f to c rounded gravel.	49'-51': N/O, N/S
		23	1.5'	31				PID = 0.1 ppm max.
				32				
				32				
				23	51		51.0'-52.2': SW-Brown f to c SAND, tr silt and f to m rounded gravel.	51'-53': N/O, N/S
		24	1.2'	18				PID = 0.1 ppm max.
				9				
				11				53'-55': N/O, N/S, PID = 0.1 ppm max.
				9	53		53.0'-54.0': SP-Reddish brown f SAND, tr silt and muscovite.	
		25	1.0'	5			Sample collected: W18STMGP-B24-5355	
				7			Well set at 55.0' bgs.	
				4			Screen Interval: 55.0' - 45.0' bgs. E.O.B. at 55' bgs	

Sand
Bentonite Chips
Concrete
Well Screen

TRC

BORING No.: SB-25

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.23/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/26/2004	4/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	36'	9'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0'-0.5': Asphalt	
				1		0.5'-1.0': Fill-Dk brown f to c SAND and f to m GRAVEL.	
						1.0'-3.0': Fill- Dk brown and gray f to c SAND and f to m GRAVEL.	1': N/O, N/S, PID = 0.2 ppm max.
							2': N/O, N/S, PID = 0.1 ppm max.
				3		3.0'-4.0': Slightly intact red brick layer.	
						4.0'-5.0': Fill-Dk brown and light brown f to c SAND and slag in large rock form with some coke (light-weight rock).	4': N/O, N/S, PID = 1.0 ppm max.
							5': N/O, N/S, PID = 0.2 ppm
			2	5		5.0'-5.3': Gray and red f to c GRAVEL and some construction debris.	5'-7': N/S, N/O
	1	0.3'	2				PID = 0.0 ppm max.
			3				
			7				
			8	7		7.0'-7.3': Fill-F to c SAND and CONCRETE.	7'-9': N/O, tr blk staining.
	2	0.3'	50/0			Sample collected: W18STMGP-B25-79	Not able to use PID for the rest of the boring due to wet weather.
				9			
			5			9.0'-9.3': Fill-F to c SAND and CONCRETE.	9'-11': N/O, N/S
	3	0.3	31				
			8			10.0'-10.3': Fill-Grayish blk f to c GRAVEL, f to c SAND and construction debris.	10'-12': N/O, N/S
	4	0.7'	8	11			
			7				
			7				
			5			12.0'-12.4': Fill-Grayish blk f to c SAND, some silt and brick fragments.	12'-14': N/O, N/S
	5	0.4'	5				
			6	13			
			6				
			3			14.0'-14.5': Fill-Grayish blk f to c SAND, some silt and brick fragments.	14'-16': N/O, N/S
	6	0.5'	3				
			2	15			
			8				
			7			16.0'-16.5': Fill/SW-Gray f to c SAND and v ltl silt.	16'-18': N/O, N/S
	7	0.5'	10				
			10	17			
			10				

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.23/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/26/2004	4/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	36'	9'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				9			18.0'-18.8': Fill/SW-Grayish blk f to c SAND.	18'-20': Strong odor, some blk staining.
		8	0.8'	9	19			
				11				
				11				
				5			20.0'-20.5': Fill/SW-F to c SAND, some f to c gravel and ltl silt.	20'-22': Strong odor, some blk staining.
		9	0.5'	8	21		Sample collected: W18STMGP-B25-2022	
				6				
				8				
				6			22.0'-22.5': Fill/SW-F to c SAND, some f to c gravel and ltl silt.	22'-24': Strong odor, some blk staining.
		10	0.5'	3	23			
				4				
				6				
				1			24.0'-24.7': Fill/SP-V f SAND and tr bark or roots.	24'-26': Strong odor, N/S
		11	0.7'	2	25			
				5				
				5				
				3			26.0'-27.5': Fill/SM-Gray silt and f to c SAND.	26'-28': Strong odor, N/S
		12	1.5'	3	27			
				1				
				2				
				WOH			28.0'-28.8': Fill-Gray to red f to c SAND, some brick fragments and roots.	28'-30': N/O, N/S
		13	0.8'	WOH	29			
				WOH				
				1				
				WOH			30.0'-30.9': Fill-Gray to red f to c SAND, some brick fragments and roots.	30'-32': N/O, N/S
		14	0.9'	2	31			
				2				
				3				
				4			32.0'-33.0': Fill/GW-F to c GRAVEL and f to c SAND and some brick fragments.	32'-34': Sl odor, N/S
		15	1.5'	1	33		Sample collected: W18STMGP-B25-32	
				2			33.0'-33.5': ML-Gray silty CLAY.	
				2			Sample collected: W18STMGP-B25-33	
				4			34.0'-35.9': ML-Gray silty CLAY.	34'-36': N/O, N/S
		16	1.9'	3	35			
				2				
				2				
							E.O.B. at 36' bgs	

TRC

BORING No.: SB-47

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.28/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/3/2004	5/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	19'	10'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.65': Asphalt	
				1		0.65'-1.0': Fill-Dk brown SILT, f to c SAND, GRAVEL and some brick fragments.	
						1.0'-2.0': Fill-Dk brown SILT, f to c SAND, GRAVEL and some brick fragments.	1': N/O, N/S, PID = ND
				3		2.0'-3.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, some brick fragments and unburned coal.	2': N/O, N/S, PID = 0.1 ppm max.
						3.0'-4.0': Fill-Lt brown SILT, f to c SAND, GRAVEL and some cobbles.	3': N/O, N/S, PID = 0.1 ppm max.
				5		4.0'-5.0': Fill-Lt brown SILT, f to c SAND, GRAVEL, some cobbles and tr unburned coal.	4': N/O, N/S, PID = 0.2 ppm max.
			8			5.0': Fill-Lt brown SILT, f to c SAND, GRAVEL and some cobbles.	5': N/O, N/S, PID = 0.1 ppm max.
	1	0.8'	9			5.0'-5.8': Fill-Brownish tan SILT, f to c SAND, CONCRETE and GRAVEL.	5'-7': N/O, N/S
			6				PID = 0.2 ppm max.
			9	7			
			4			7.0'-7.7': Fill-Brownish tan SILT, f to c SAND, CONCRETE and GRAVEL.	7'-9': N/O, N/S
	2	0.7'	6			Sample collected: W18STMGP-B47-79	PID = 0.3 ppm max.
			7				
			10	9			
			4			9.0'-9.5': Fill-Brownish tan SILT, f to c SAND, CONCRETE and GRAVEL.	9'-11': N/O, N/S
	3	0.5'	8		▼		PID = N/A
			6				
			7	11			
			6			11.0'-13.0': No Recovery	11'-13': N/A
	4	0.0'	5				
			5				
			4	13			
			9			13.0'-13.9': Fill/SP-Gray c SAND, GRAVEL, tr clay, silt and brick fragments.	13'-15': Sl odor and tr blk staining
	5	0.9'	6			Sample collected: W18STMGP-B47-1315	PID = 0.0 ppm max.
			6				
			9	15			
			3			15.0'-16.2': ML-Gray silty CLAY, shell fragments and tr pebbles.	15'-17': N/O, N/S
	6	1.2'	2				PID = 0.0 ppm max.
			1				
			4	17			
			3			17.0'-18.0': ML-Gray silty CLAY, shell fragments and tr pebbles.	17'-19': N/O, N/S
	7	1.0'	1			Sample collected: W18STMGP-B47-1719	PID = 0.0 ppm max.

TRC

BORING No.: SB-47

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		10.28/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/3/2004	5/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	19'	10'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
				2			17.0'-18.0': ML-Gray silty CLAY, shell fragments and tr pebbles.	(PID, STAINING, ODORS, ETC.)
				1			Sample collected: W18STMGP-B47-1719	N/S = No Staining
					19		E.O.B. at 19' bgs	N/O = No odors
					21			
					23			
					25			
					27			
					29			
					31			
					33			
					35			

f - fine m - medium c - coarse
lt - light dk - dark tr - trace ltl - little sl - slight

TRC

BORING No.: SB-48

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SE area of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/3/2004	5/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	21'	9'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt and subbase.	
				1		0.5'-1.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, CONCRETE and tr brick fragments.	1': N/O, N/S PID (headspace) = 3.9 ppm max.
						1.9': Intact red brick wall along northern side of borehole.	
				3		1.0'-2.0': Fill-Dk brown SILT, f ot c SAND, GRAVEL, CONCRETE and tr brick fragments.	2': N/O, N/S PID (headspace) = 5.4 ppm max.
						3.0'-4.0': Fill-Lt brown SILT, f to c SAND, GRAVEL, tr wood fibers and brick fragments.	3': N/O, N/S PID (headspace) = 6.3 ppm max.
				5		4.0'-5.0': Fill- Lt brown SILT, f to c SAND, GRAVEL, tr wood fibers and brick fragments and another intact brick wall stepping out 1/2 ft from brick encountered at 1.9' bgs.	4': N/O, N/S PID (headspace) = 6.3 ppm max.
			10				5'-7': N/A
	1	0.0'	12			5.0'-7.0': No Recovery	
			11				
			10	7			
			4			7.0'-8.2': Fill-Brownish tan SILT, f to m SAND, GRAVEL and some brick fragments.	7'-9': N/O, N/S PID = 0.0 ppm max.
	2	1.2'	4				
			2			Sample collected: W18STMGP-B48-79	
			7		▼		
			5	9		9.0'-9.4': Fill-Brownish tan SILT, f to med SAND, GRAVEL and brick fragments.	9'-11': Sl MGP-related odor, N/S
	3	1.8'	5			9.4'-10.8': Fill-Gray m to c SAND, GRAVEL and brick fragments.	PID = 1.8 ppm max.
			9				
			7	11			
			2			11.0'-11.4': Fill/SM-Gray sandy SILT, tr organics and gravel.	11'-13': Sl MGP-related odor, N/S and sheen in shoe
	4	0.4'	2				PID = 5.4 ppm max.
			4				
			5	13			
			9			13.0'-13.3': Fill/GM-Gray f sandy SILT and GRAVEL.	13'-15': Strong coal tar odor, sheen, visible (OLM) and (TM), N/S
	5	0.3'	4				PID = 60.5 ppm max.
			4				
			6	15			
			3			15.0'-16.0': Fill/GM-Dk gray SILT, f to c SAND and GRAVEL.	15'-16': Strong coal tar odor, sheen, visible (OLM) and (TM), N/S
	6	2.0'	2			16.0'-17.0': ML-Gray silty CLAY, shell fragments and some black organics.	PID = 1,085 ppm max.
			2			Sample collected: W18STMGP-B48-1517	
			2	17			
			1			17.0'-19.0': ML-Gray silty CLAY, shell fragments and some black organics.	16'-19': N/O, N/S
	7	2.0'	1				PID = 14.8 ppm max.

TRC

BORING No.: SB-48

BORING LOG

SHEET 2 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SE area of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/3/2004	5/3/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	21'	9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				1				
				2	19			
				2			19.0'-21.0': ML-Gray silty CLAY, shell fragments and some black organics.	19'-21': N/O, N/S
		8	2.0'	3				PID = 2.8 ppm max.
				3				
				3				
					21		E.O.B. at 21' bgs	
					23			
					25			
					27			
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-49

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.01/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/28/2004	4/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	24'	Approx. 12'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt	
				1		0.5'-1.0': Fill-Dk grayish blk SILT, f to c SAND, GRAVEL, some wood fibers, slag and tr coal fragments.	1': N/O, N/S PID (headspace) = 3.8 ppm max.
						1.5'-1.6': 0.1' Layer of CONCRETE.	
				3		1.6'-2.2': Fill-Dk grayish blk SILT, SAND, GRAVEL, chunks of wood fibers, some brick fragments, slag and tr coal fragments.	2': N/O, tr blk staining on wood PID (headspace) = 8.9 ppm max.
							4'-6': N/O, N/S
			22			4.0'-4.1': Fill-Blk f to c GRAVEL and ltl silt.	PID = 1.6 ppm max.
	1	0.1'	13	5			
			18				
			12				6'-8': N/O, N/S
			12			6.0'-6.2': Fill-Blk f GRAVEL and construction debris.	PID = 0.2 ppm max.
	2	0.2'	50/0	7			
							8'-10': Very strong odor, N/S
			12			8.0'-8.3': Fill-Red f to c SAND and some construction debris.	PID = 76.0 ppm max.
	3	0.5'	13	9		8.3'-8.5': Fill/SW- Blk f to c SAND and shiny floculates.	
			18				
			9				10'-12': Very strong odor, N/S
			1			10.0'-10.6': Fill/SM-Blk SILT, f to c SAND and shiny floculates.	PID = 700 ppm max.
	4	1.2'	1	11		10.6'-11.2': Fill/SM-Gray f to c SILT and f to c SAND.	
			2			Sample collected: W18STMGP-B49-1012	
			5		▼		12'-14': Very strong odor, N/S
			1			12.0'-13.9': Fill/SM-Gray f to c SILT and f to c SAND.	PID = 77.8 ppm max.
	5	1.9'	1	13			
			1				
			1				
			1			14.0'-16.0': Fill/SM-Gray f to c SILT and f to c SAND.	14'-16': Very strong odor, N/S
	6	2.0'	1	15			PID = 75 ppm max.
			1				
			1				
			1			16.0'-17.8': Fill/SM-Brown to gray silty f to c SAND.	16'-18': Very strong odor, N/S
	7	2.0'	4	17			PID = 625 ppm max.
			3			17.8'-17.9': Fill/SW-F to c SAND.	
			2			17.9'-18.0': ML-Gray silty CLAY.	

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		9.01/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/28/2004	4/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	24'	Approx. 12'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				1			Sample collected: W18STMGP-B49-1718	18'-20': Strong odor, N/S
		8	2.0'	5	19		18.0'-20.0': ML-Gray silty CLAY and ltl f sand.	PID = 5 ppm max.
				2				
				4				
				3			20.0'-22.0': ML-Gray silty CLAY and ltl f sand.	20'-22': Sl odor, N/S
		9	2.0'	2	21			PID = 37 ppm max.
				2				
				3				
				1			22.0'-24.0': ML-Gray silty CLAY and ltl f sand.	22'-24': N/O, N/S
		10	2.0'	1	23		Sample collected: W18STMGP-B49-2324	PID = 3.7 ppm max.
				1				
				1				
							E.O.B. at 24' bgs	
					25			
					27			
					29			
					31			
					33			
					35			

TRC

BORING No.: SB-50

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern end in the middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.70/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Lisa Wasiowich	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	33'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0'-0.5': Asphalt	
				1		0.5'-1.0': Fill-Tan f SAND.	
						1.0'-3.0': Fill-Dark brown/dark gray f to c SAND.	1': N/O, N/S, PID = 1.0 ppm max.
							2': N/O, N/S, PID = 1.0 ppm max.
				3		3.0': Tan CONCRETE (similar to 0.5'-1.0').	3': N/O, N/S, PID = 1.0 ppm max.
							4': N/O, N/S, PID = 1.0 ppm max.
			4	5		5.0'-5.75': Fill-Blk c SAND, tr brick fragments and tr asphalt.	5'-7': N/S, N/O
	1	0.75'	2				PID = 4.9 ppm max.
			2				
			3				
			5	7		7.0'-7.3': Fill-Blk c SAND, tr brick fragments and tr asphalt.	7'-9': N/O, tr blk staining
	2	1.3'	6			7.3'-8.3': Fill/SW-Brown f to m SAND and tr c gravel.	PID = 4.9 ppm max.
			7				
			5				
			1/1'	9		9.0'-9.25': Fill/SW-Brown f to m SAND and tr f gravel.	9'-11': N/O, N/S
	3	0.25'					PID = 0.2 ppm max.
			1				
			1		▼		
				11		11.0'-13.0': NA	11'-13': NA
	4	NA					
			3	13		13.0'-13.25: Fill/SW-Grayish brown m to c SAND and tr f gravel.	13'-15': Sl odor, N/S
	5	0.5'	2				PID = NA
			2				
			1				
			2	15		15.0'-16.5': Fill/SW-Grayish brown m to c SAND, tr f gravel and silt.	15'-17': Sl non-MGP-related odor, N/S
	6	1.5'	1				PID = 2.0 ppm max.
			2				
			2				
			1	17		17.0'-18.4': Fill/SW-Grayish brown m to c SAND, tr f gravel and silt.	17'-19': N/O, N/S, sl sheen
	7	1.4'	3				PID = 1.0 ppm max.

TRC

BORING No.: SB-50

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Northern end in the middle of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.70/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Lisa Wasiowich	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	33'	11'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				6				
				6				
				2	19		19.0'-20.3': Fill/SW-Grayish brown m to c SAND, tr f gravel and silt.	19'-21': N/O, N/S, sl sheen
		8	1.3'	2				PID = 1.0 ppm max.
				4				
				2				
				2	21		21.0'-22.0': Fill/SW-Grayish brown f to c SAND and tr gravel.	21'-23': N/S, sl odor, sl sheen
		9	1.0'	2				PID = 6.0 ppm max.
				2				
				2				
				1/2'	23		23.0'-23.4': Fill/SW- Grayish brown f to c SAND, tr gravel and silt.	23'-25': N/S, sl odor, sl sheen
		10	0.4'					PID = 1.5 ppm max.
				1/2'	25		25.0'-25.5': Fill/SW- Grayish brown f to c SAND, tr gravel and silt.	25'-27': N/S, sl odor, sl sheen
		11	1.5'				25.5'-26.5': SM-Dk gray SILT, f SAND, some clay, tr organics and shell fragments.	PID = 6.0 ppm max.
				2	27		27.0'-29.0': SM-Dk gray SILT, f SAND, some clay, tr organics and shell fragments.	27'-29': N/O, N/S
		12	2'	2				PID = 10 ppm max.
				1				
				2				
				1	29		29.0'-29.3': SM-Black SILT, f SAND, some clay and rock in shoe.	29'-31': N/O, N/S
		13	0.3'	1				PID = 5.0 ppm max.
				2				
				1				
				WOH	31		31.0'-31.5': ML-Black f SAND and SILT and some clay.	31'-33': N/O, N/S
		14	2'	18			31.5'-33.0': ML-Dk gray f SAND and SILT and some clay.	PID = 1.5 ppm max.
				2				
				14				
					33		E.O.B. at 33' bgs	
					35			

TRC

BORING No.: SB-51

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of the western end of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.89/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	33'	Approx. 9'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
								(PID, STAINING, ODORS, ETC.)
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	N/S = No Staining N/O = No odors
							0'-0.5': Asphalt	
					1		0.5'-2.5': Fill-Dk gray f to m SAND and COBBLES.	1': N/O, N/S, PID = 0.0 ppm max.
					3		2.5'-4.0': Fill-Dk gray f to m SAND, GRAVEL, COBBLES, red bricks and slag.	2': N/O, N/S, PID = 7.0 ppm max. 3': N/O, N/S, PID = 1.3 ppm max.
					5		4.0'-5.0': Fill-Dk gray f to m SAND, GRAVEL, COBBLES, red bricks and slag.	4': N/O, N/S, PID = 1.4 ppm max.
				6			5.0'-5.25': Fill-F to c SAND.	5'-7': N/S, N/O
		1	0.25'	5				PID = 1.0 ppm max.
				3			Sample collected: W18STMGP-B51-57	
				3	7			
				4			7.0'-7.5': Fill/SW-Dk blk f to c SAND and tr silt.	7'-9': N/O, N/S
		2	0.5'	3				PID = 4.8 ppm max.
				3				
				6		▼		
				50	9		9.0'-9.1': Fill/SW-Dk blk f to c SAND and tr silt.	9'-11': N/O, N/S
		3	0.1'	50/3				PID = 12.5 ppm max.
					11			
				11			11.0'-11.3': Fill/SW-Blk f to c SAND.	11'-13': N/O, tr blk staining
		4	0.3'	14				PID = 6.0 ppm max.
				41				
				15				
				33	13		13.0'-13.5': Fill/SW-Gray f to c SAND, some gravel, brick fragments and concrete.	13'-15': Strong odor and blk staining
		5	0.5'	13				PID = 84.0 ppm max.
				17			Sample collected: W18STMGP-B51-1315	
				10				
				20	15		15.0'-15.5': Fill/SW-Gray f to c SAND, some gravel, brick fragments and concrete.	15'-17': N/O, N/S
		6	0.5'	9				PID = 8.9 ppm max.
				12				
				8				
				20	17		17.0'-17.1': Fill/SW-Gray f to c SAND, c GRAVEL, brick fragments and concrete and rock fragments in shoe.	17'-19': Strong odor, N/S
		7	0.1'	13				PID = 7.6 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of the western end of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.89/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Todd Reinold	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	4/27/2004	4/27/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	33'	Approx. 9'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
							f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
				15				
				22				
				30	19		19.0'-19.4': Fill/SW-gray to blk f to c SAND and some gravel.	19'-21': Strong odor and blk staining
		8	0.4'	33				PID = 12.8 ppm max.
				50/2				
							Sample collected: W18STMGP-B51-2123	
					21			
				3			21.0'-22.0': Fill/SW-gray to blk f to c SAND and some gravel.	21'-23': Strong odor and blk staining
		9	1.7'	18				PID = 140 ppm max.
				5			22.0'-22.7': ML-Gray silty CLAY.	
				3				
				3	23		23.0'-24.7': ML- Gray silty CLAY and tr f sand.	23'-25': Strong odor, N/S
		10	1.7'	1				PID = 21.7 ppm max.
				2				
				5				
				1	25		25.0'-25.9': ML- Gray silty CLAY and tr f sand.	25'-27': N/S, sl odor
		11	0.9'	1				PID = 4.0 ppm max.
				1				
				1				
				4	27		27.0'-27.9': ML- Gray silty CLAY and tr f sand.	27'-29': N/O, N/S
		12	0.9'	9				PID = 3.0 ppm max.
				7				
				7				
				5	29		29.0'-29.9': ML- Gray silty CLAY and tr f sand.	29'-31': N/O, N/S
		13	0.9'	4				PID = 1.9 ppm max.
				7				
				6				
				1	31		31.0'-31.9': ML- Gray silty CLAY and tr f sand.	31'-33': N/O, N/S
		14	0.9'	1				PID = ND
				1				
				1			Sample collected: W18STMGP-B51-3133	
					33		E.O.B. at 33' bgs	
					35			

TRC

BORING No.: SB-52

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of DEA the Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.26/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/1/2004	5/1/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	35'	9'

WELL CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
						0'-0.5': CONCRETE and asphalt.	
				1		0.5'-3.1': Fill-Grayish brown SILT, f to c SAND, GRAVEL and some brick fragments, concrete and slag.	1': N/O, N/S, PID = 3.2 ppm max.
							2': N/O, N/S, PID = 3.7 ppm max.
				3		3.1'-3.9': Light tan firestone brick.	3': N/O, N/S, PID = 0.6 ppm max.
						4.0'-5.0': Fill/SW-Dk gray f to c SAND, tr brown silt, gravel, brick framents and glass.	4': N/O, N/S, PID = 1.3 ppm max.
			8	5		5.0'-5.3': Fill/SW-Dk gray f to c SAND, tr brown silt, gravel, brick framents and glass.	5'-7': N/S, N/O
	1	0.3'	39				PID = 6.1 ppm max.
			50/3				
			50	7		7.0'-7.2': Fil-Grayish brown SILT, f to c SAND, GRAVEL, some concrete, brick fragments and tr glass.	7'-9': Sl MGP-related odor, N/S
	2	0.2'	50/0				PID = 32.2 ppm max.
				9			
			39			9.0'-9.7': Fill-Grayish brown SILT, f to c SAND, GRAVEL, some concrete and brick fragments.	9'-11': N/O, N/S
	3	0.7'	38				PID = 2.2 ppm max.
			23				
			10	11			
			12			11.0'-11.9': Fill-Dk brown/dk gray SILT, f to c SAND, GRAVEL, some concrete, brick fragments, tr slag, glass and wood fibers.	11'-13': N/O, N/S
	4	0.9'	10				PID = 4.6 ppm max.
			7			Sample collected: W18STMGP-B52-1113	
			3				
			1	13		13.0'-14.0': Fill-Brown/gray SILT, f to c SAND, GRAVEL and some brick fragments.	13'-15': Tr blk staining, N/O
	5	1.0'	1				PID = 0.4 ppm max.
			3				
			7	15			
			5			15.0'-15.3': Fill-Brown/gray SILT, f to c SAND, GRAVEL and some brick fragments.	15'-17': Sl MGP-related odor, N/S
	6	0.6'	5				PID = 0.7 ppm max.
			3				
			7	17		16.7'-17': Fill- Dk gray m to c SAND, GRAVEL,some brick fragments and shell fragments.	
			7				17'-19': N/O, N/S
	7	1.5'	5			17.0'-18.5': Fill/SP- Dk gray c SAND and tr gravel.	PID = 1.1 ppm max.

TRC

BORING No.: SB-52

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of DEA Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
DEA Parking Lot		8.26/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/1/2004	5/1/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	35'	9'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				3				
				13	19			
				1			19.0'-21.0': Fill/SP-Dk gray c SAND, tr silt, f to m SAND, wood fibers, gravel, brick and shell fragments.	19'-21': N/O, N/S
		8	2.0'	1				PID = 1.5 ppm max.
				3				
				6	21			
				30			21.0'-21.4': Fill/SW-Dk gray f to m SAND, tr c sand, wood fibers and brick fragments.	21'-23': N/O, N/S
		9	1.0'	35			21.4'-22.0': Fill/SP-Dk gray c SAND, tr wood fibers and brick fragments.	PID = 1.6 ppm max.
				50/0				
					23			
				6			23.0'-23.8': Fill/SW-Dk gray m to c SAND, tr gravel, wood fibers and shell fragments.	23'-25': Solvent-like odor, blk staining, sheen
		10	0.8'	5				PID = 12.8 ppm max.
				9				
				12	25			
				12			25.0'-25.9': Fill/SW-Dk gray m to c SAND, tr silt, f sand and coal fragments and large brick chunks.	25'-27': Strong MGP-related odor, blk staining, sheen, visible OLM
		11	0.9'	13				PID = 42.2 ppm max.
				9				
				6	27			
				18			27.0'-27.5': Fill/SM-Dk gray SILT, f to c SAND, tr clay and wood fibers.	27'-29': Blk staining, strong MGP-
		12	0.5'	26			Sample collected: W18STMGP-B52-2729	related odor, visible OLM and tr coal tar.
				50/2				PID = 312 ppm max.
					29			
				20			29.0'-31.0': Fill/SW-Dk gray m to c SAND, tr f sand, silt and wood fibers.	29'-31': Blk staining, strong MGP-
		13	2.0'	35				related odor, visible OLM and tr coal tar
				19				
				12				PID = 109 ppm max.
				5	31		31.0'31.4': Fill/SW-Dk gray m to c SAND, tr f sand silt and wood fibers.	31'-33': N/O, N/S inside of clay
		14	2.0'	6			31.4-32.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	PID = 12.4 ppm max.
				8				
				10	33			
				4			33.0'-35.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	33'-35': N/O, N/S inside of clay
		15	2.0'	5			Sample collected: W18STMGP-B52-3335	PID = 12.4 ppm max.
				5				
				6				
					35			
							E.O.B. at 35' bgs	

TRC

BORING No.: SB-29/MW-29A

BORING LOG

SHEET 1 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Former MGP Site	
ADDRESS		**ELEVATION/DATUM**	
NW corner of 16th Street and 10th Avenue		10.77/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Tony Palomeque	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25" Hollow Stem Auger	11/6/2004	11/7/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50'	11'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
						0.0'-0.5': CONCRETE.	
				1		0.5'-1.5': Fill-Dk gray to black SILT, f to c SAND and GRAVEL.	0.5'-1.5': N/O, N/S PID = 0.0 ppm max.
						1.5'-5.0': Fill-Brown SILT, f to c SAND and gravel.	1.5'-3': N/O, N/S PID = 0.0 ppm max.
				3			3'-4': N/O, N/S PID = 0.0 ppm max.
							4'-5': N/O, N/S PID = 0.2 ppm max.
				5			
			12			5.0'-5.8': Fill-Brown SILT, f to m SAND, tr c sand, gravel and cobbles.	5'-7': N/O, N/S
	1	0.8'	5				PID = 1.0 ppm max.
			6				
			7	7			
			11			7.0'-7.1': Fill-Brown SILT, f to c SAND and some gravel.	7'-9': N/O, N/S
	2	0.1'	5				PID = 0.1 ppm max.
			7				
			6				
			5	9		9.0'-9.7': Fill-Brown m to c SAND, some f sand, silt and rock fragments.	9'-11': N/O, N/S
	3	0.7'	6				PID = 0.0 ppm max.
			6				
			6		▼		
			9	11		11.0'-11.2': Fill-Brown SILT, f SAND, ltl m sand, tr c sand and gravel.	11'-13': N/O, N/S
	4	0.6'	13			11.2'-11.6': Fill-Brown c to very c SAND, GRAVEL and some f to m sand.	PID = 0.1 ppm max.
			13			Sample collected: W18STMGP-SB29-1113	
			12				
			8	13		13.0'-13.6': Fill-Brown c to very c SAND, GRAVEL, some cobbles and tr f to m sand and silt.	13'-15': N/O, N/S
	5	0.8'	8				PID = 0.0 ppm max.
			8			13.6'-13.8': SW-Orangish brown m to very c SAND, some gravel and tr f sand and silt.	
			7				
			3	15		15.0'-15.7': SW-Orangish brown m to very c SAND, some gravel and tr f sand and silt.	15'-17': N/O, N/S
	6	0.7'	6				PID = 0.0 ppm max.
			5				
			7				
			3	17		17.0'-18.4': SW-Orangish brown m to very c SAND, some gravel and tr f sand and silt.	
	7	1.4'	7				

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Former MGP Site
ADDRESS		**ELEVATION/DATUM**
NW corner of 16th Street and 10th Avenue		10.77/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Tony Palomeque	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-LC60	4.25" Hollow Stem Auger	11/6/2004 / 11/7/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50' / 11'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			7				17'-19': N/O, N/S
			6	19			PID = 0.0 ppm max.
			9			19.0'-20.0': SW-Brown m to c SAND, GRAVEL and tr f sand and silt.	19'-21': N/O, N/S
	8	1.0'	9				PID = 0.0 ppm max.
			10			20.0': Heaving sands in the auger. ADT flushed out sands and put a center plug in the bottom of the augers to stop the sands.	
			6	21			
						20.0'-25.0': Drill five feet in an attempt to drill passed gravelly sands and prevent heaving sands up into auger.	
				23			
				25			
			4			25.0'-26.0': SP-Brown m SAND, some f sand, tr c sand and gravel. Reddish brown f SAND in shoe.	25'-27': N/O, N/S
	9	1.0'	4				PID = 0.0 ppm max.
			5				
			7	27			
			16			27.0'-27.3': SW-Brown f to c SAND, GRAVEL, and chunks of rock.	27'-29': N/O, N/S
	10	0.3'	20				PID = 0.0 ppm max.
			25				
			70	29			
						30.0'-34.0': Heaving sands are still a problem, so drill another four feet.	
				31			
				33			34'-36': N/O, N/S
							PID = 0.0 ppm max.
			3			34.0'-34.6': SW-Brown f to c SAND, tr gravel and silt.	Sand
	11	1.0'	4			34.6'-35.0': SP-Brown C SAND and GRAVEL.	Bentonite Chips
			4	35		Sample collected: W18STMGP-SB29-3436	Concete
			8				Well Screen

TRC

BORING No.: SB-29/MW-29A

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Former MGP Site
ADDRESS		**ELEVATION/DATUM**
NW corner of 16th Street and 10th Avenue		10.77/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Tony Palomeque	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-LC60	4.25" Hollow Stem Auger	11/6/2004 / 11/7/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	50' / 11'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			2			36.0'-38.75': ML-Brown SILT and some clay.	36'-38': N/O, N/S
	12	1.75'	3	37			PID = 0.0 ppm max.
			5				
			7				
			4			38.0'-39.0': ML-Brown CLAY and SILT.	38'-40': N/O, N/S
	13	1.7'	6			Sample collected: W18STMGP-SB29-3840	PID = 0.0 ppm max.
			7	39		39.0'-39.7': SM-Brown very f SAND and some silt.	
			10				
			3			40.0'-41.0': SM-Brown very f SAND and some silt.	40'-42': N/O, N/S
	14	1.0'	6				PID = 0.0 ppm max.
			12	41			
			125				
			3			42.0'-43.7': ML-Brown CLAY and SILT and some very f sand.	42'-44': N/O, N/S
	15	1.7'	13				PID = 0.0 ppm max.
			16	43			
			16				
			5			44.0'-46.0': SM-Brown very f SAND and some silt.	44'-46': N/O, N/S
	16	2.0'	9				PID = 0.0 ppm max.
			6	45			
			15				
			5			46.0'-48.0': SM-Brown very f SAND and some silt.	46'-48': N/O, N/S
	17	2.0'	10				PID = 0.0 ppm max.
			14	47			
			23				
			4			48.0'-50.0': SM-Brown very f SAND and some silt with increasing silt and tr clay content towards bottom of spoon.	48'-50': N/O, N/S
	18	2.0'	10				PID = 0.0 ppm max.
			21	49		Sample collected: W18STMGP-SB29-4850	
			17			Blind duplicate collected: W18STMGP-SB71-4850	
						E.O.B. at 50' bgs	
				51			
				53			
						Well set at 20' bgs	
						Screen interval from 8.0' to 18.0' bgs with a 2' sump from 18.0' to 20.0' bgs	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-30

SHEET 1 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Purifying House and S of Retort House
ADDRESS		**ELEVATION/DATUM**
17th Street between 10th Ave and West Side Highway		8.16/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Lloyd Adams/Dennis Mayer	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-75/Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	10/10/2004 / 10/30/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86' / 11'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0.0'-0.5': COBBLESTONE road.	
				1		0.5'-1.0': ASPHALT and COBBLES with dk brown c sand matrix. 1.0'-2.0': Fill-Dk brown f to c SAND, SILT and some cobble.	1'-2': N/O, N/S PID = 0.0 ppm max.
						2.0'-6.0': Fill-Dk gray m to c SAND and tr cobble.	2'-3': N/O, N/S PID = 0.0 ppm max.
				3			3'-4': N/O, N/S PID = 0.0 ppm max.
							4'-5': N/O, N/S PID = 0.0 ppm max.
				5			5'-6': N/O, N/S PID = 0.0 ppm max.
			3			6.0'-6.1': Fill-Dk brown SILT, f to c SAND, some gravel and brick fragments.	6'-8': N/O, N/S PID = 0.2=0 ppm max.
	1	0.1'	2	7			
			1				
			1			8.0'-8.3': Fill-Dk brown SILT, f to m SAND, some clay, tr c sand, brick fragments, wood fibers and cobble in shoe.	8'-10': N/O, N/S PID = 0.0 ppm max.
	2	0.3'	1	9			
			2				
			4				
			1			10.0'-10.4': Fill-Dk brown SILT, f to c SAND, GRAVEL, brick fragments and wood timbers.	10'-12': N/O, N/S PID = 0.0 ppm max.
	3	0.4'	1	11	▼		
			1			Sample collected: W18STMGP-SB30-1012	
			2				
			2			12.0'-12.7': Fill-Dk brown SILT, f to c SAND, GRAVEL, brick fragments and wood timbers.	12'-14': Sl petroleum odor, N/S PID = 8.7 ppm max.
	4	0.7'	3	13			
			3				
			3				
			2			14.0'-14.2': Fill-Dk brown SILT, f to c SAND, GRAVEL, brick and wood.	14'-16': Sl petroleum odor, N/S
	5	0.6'	3			14.2'-14.5': Fill-Dk brown SILT, CLAY and tr f sand.	PID = 2.4 ppm max.
			4	15		14.5'-14.6': Fill-Reddish brown f to c SAND, tr silt and gravel.	
			4				
			1			16.0'-16.4': Fill-Reddish brown f to c SAND, tr silt, gravel and wood fibers.	16'-18': Sl MGP-related odor, tr sheen, N/S
	6	0.4'	1	17			PID = 21.0 ppm max.
			2				
			5				

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Purifying House and S of Retort House
ADDRESS		**ELEVATION/DATUM**
17th Street between 10th Ave and West Side Highway		8.16/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Lloyd Adams/Dennis Mayer	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-75/Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	10/10/2004 / 10/30/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86' / 11'

WELL	CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				2			18.0'-18.6': Fill-Reddish brown f to c SAND, tr silt, gravel and wood fibers.	18'-20': Sl MGP-related odor, tr sheen, N/S
		7	0.9'	6	19		18.6'-18.9': Fill-Dk brown SILT, f SAND, tr m sand, gravel and roots.	PID = 52.0 ppm max.
				2				
				2				
				3			20.0'-21.0': Fill-Reddish brown/brown f to c SAND, tr silt at tip of spoon and red c sand in shoe.	20'-22': Strong MGP-related odor, sheen, visible (OLM) and tr (TLM) blebs in shoe.
		8	1.0'	5	21			PID = 72.9 ppm max.
				5				
				4				
				3			22.0'-23.0': Fill-Reddish brown/brown f to c SAND and wood fibers.	22'-24': Strong MGP-related odor, sheen, visible (OLM) and (TLM) blebs, black staining
		9	1.0'	5	23		Sample collected: W18STMGP-SB30-2224	PID = 1,585 ppm max.
				2				
				2				
				1			24.0'-26.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	24'-26': N/O, N/S inside of clay.
		10	2.0'	2	25		Sample collected: W18STMGP-SB30-2426	PID = 0.0 ppm max.
				2				
				2			26.0'-28.0': ML-Dk gray silty CLAY, tr f sand and shell fragments.	26'-28': N/O, N/S on inside of clay.
				3			**26.0': Set temporary steel casing from 0'-26' bgs before continuing deeper with mud rotary.**	PID = 0.0 ppm max.
		11	2.0'	2	27			
				2				
				3				
				5			28.0'-28.7': ML-Gray clayey SILT, some c sand, gravel and tr f to m sand, and shell fragments.	28'-30': N/O, N/S
		12	1.4'	4	29			PID = 0.0 ppm max.
				8			28.7'-29.4': SP-Reddish brown f to m SAND, tr c sand, rock fragments and and 1/4' tan SILT lense in bottom of spoon.	
				9				
				8			Sample collected: W18STMGP-SB30-2830	
		13	1.0'	6	31		30.0'-31.0': SP-Reddish brown f to m SAND and tr c sand.	32'-32': N/O, N/S
				10				PID = 0.0 ppm max.
				12				
				5			32.0'-32.8': SP-Reddish brown f to m SAND and tr c sand.	32'-34': N/O, N/S
		14	1.1'	7	33		32.8'-33.1': ML-Tan silty CLAY and some f sand.	PID = 0.0 ppm max.
				8				
				11				
				11			34.0'-34.3': ML-Tan silty CLAY and some f sand.	34'-36: N/O, N/S
		15	1.1'	13	35		34.3'-35.1': SP-Tan f to m SAND and tr silt.	PID = 0.0 ppm max.
				17				
				16				

TRC

BORING No.: SB-30

SHEET 3 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Purifying House and S of Retort House	
ADDRESS		**ELEVATION/DATUM**	
17th Street between 10th Ave and West Side Highway		8.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Lloyd Adams/Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-75/Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	10/10/2004	10/30/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	11'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	REMARKS (PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
			15			36.0'-38.0': SM-Tan SILT and very f SAND.	36'-38': N/O, N/S
	16	2.0'	7	37			PID = 0.0 ppm max.
			11				
			26				
			2			38.0'-39.0': SM-Tan f SAND and some silt.	38'-40': N/O, N/S
	17	1.0'	10	39			PID = 0.0 ppm max.
			15				
			16				
			10			40.0'-41.4': SM-Tan f SAND and some silt.	40'-42': N/O, N/S
	18	1.4'	15	41			PID = 0.0 ppm max.
			15				
			19				
			11			42.0'-43.5': SM-Alternating reddish brown f SAND and tan clayey SILT.	42'-44': N/O, N/S
	19	1.5'	13	43			PID = 0.0 ppm max.
			14				
			16				
			5			44.0'-45.6': ML-Reddish brown clayey SILT and tr f sand.	44'-46': N/O, N/S
	20	1.6'	8	45			PID = 0.0 ppm max.
			9				
			16				
			7			46.0'-47.6': ML-Reddish brown clayey SILT and some very f sand.	46'-48': N/O, N/S
	21	1.8'	10	47		47.6'-47.8': SM-Lt brown SILT and very f SAND.	PID = 0.0 ppm max.
			16				
			21				
			10			48.0'-50.0': No Recovery	48'-50': N/O, N/S
	22	0.0'	7	49			PID = 0.0 ppm max.
			9				
			15				
			6			50.0'-51.3': SP-Brown f SAND.	50'-52': N/O, N/S
	23	1.7'	8	51			PID = 0.0 ppm max.
			8			51.3'-51.7': ML-Tan silty CLAY and tr f sand.	
			11				
			5			52.0'-53.0': SP-Grayish brown f SAND with 1/2" tan silty clay lense at 52.5' bgs.	52'-54': N/O, N/S
	24	1.0'	6	53			PID = 0.0 ppm max.
			10				
			10				

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Purifying House and S of Retort House	
ADDRESS		**ELEVATION/DATUM**	
17th Street between 10th Ave and West Side Highway		8.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Lloyd Adams/Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-75/Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	10/10/2004	10/30/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	11'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			3			54.0'-54.5': SP-Grayish brown f SAND	54'-56': N/O, N/S
	25	0.5'	5	55			PID = 0.0 ppm max.
			9				
			9				
			3			56.0'-57.0': SP-Reddish brown f SAND.	56'-58': N/O, N/S
	26	1.0'	5	57			PID = 0.0 ppm max.
			7				
			9				
			2			58.0'-58.6': SP-Reddish brown f SAND.	58'-60': N/O, N/S
	27	0.6'	5	59			PID = 0.0 ppm max.
			8				
			10				
			4			60.0'-61.1': SP-Reddish brown f SAND.	60'-62': N/O, N/S
	28	1.1'	5	61			PID = 0.0 ppm max.
			7				
			8				
			3			62.0'-63.2': ML-Reddish brown and lt brown silty CLAY and tr f sand.	62'-64': N/O, N/S
	29	1.4'	3	63			PID = 0.0 ppm max.
			4			63.2'-63.4': SM-Reddish brown SILT and very f SAND.	
			7				
			17			64.0'-65.3': SM-Reddish brown SILT, f SAND and CLAY.	64'-66': N/O, N/S
	30	1.3'	6	65			PID = 0.0 ppm max.
			6				
			10				
			5			66.0'-68.0': No Recovery.	66'-68': N/O, N/S
	31	0.0'	7	67			PID = 0.0 ppm max.
			10				
			11				
			6			68.0'-68.4': SM-Reddish brown f SAND and some silt.	68'-70': N/O, N/S
	32	0.4'	7	69			PID = 0.0 ppm max.
			9				
			6				
			3			70.0'-72.0': SM-Reddish brown f SAND and some silt.	70'-72': N/O, N/S
	33	2.0'	3	71			PID = 0.0 ppm max.
			3				
			5				

TRC

BORING No.: SB-30

SHEET 5 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW of Purifying House and S of Retort House	
ADDRESS		**ELEVATION/DATUM**	
17th Street between 10th Ave and West Side Highway		8.16/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Lloyd Adams/Dennis Mayer	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-75/Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	10/10/2004	10/30/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	86'	11'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			2			72.0'-74.0': SM-Reddish brown f SAND and some silt.	72'-74': N/O, N/S
	34	2.0'	3	73			PID = 0.0 ppm max.
			5				
			16				
			4			74.0'-75.9': SP-Reddish brown very f SAND and tr silt.	74'-76': N/O, N/S
	35	1.9'	6	75			PID = 0.0 ppm max.
			10				
			10				
			4			76.0'-77.5': SP-Reddish brown very f SAND and tr silt.	76'-78': N/O, N/S
	36	1.5'	8	77			PID = 0.0 ppm max.
			12				
			12				
			7			78.0'-80.0': SP-Reddish brown very f SAND and tr silt.	78'-80': N/O, N/S
	37	2.0'	11	79			PID = 0.0 ppm max.
			14				
			18				
			9			80.0'-82.0': SP-Reddish brown very f SAND and tr silt.	80'-82': N/O, N/S
	38	1.6'	15	81			PID = 0.0 ppm max.
			15				
			13				
			17			82.0'-83.5': SP-Reddish brown very f SAND and tr silt.	82'-84': N/O, N/S
	39	1.5'	13	83			PID = 0.0 ppm max.
			18				
			22				
			13			84.0'-85.8': SP-Reddish brown very f SAND and tr silt.	
	40	2.0'	17	85		Sample collected: W18STMGP-SB30-8486	
			16			Blind duplicate collected: W18STMGP-SB66-8486	
			33			85.8'-86.0': Weathered Schist.	
						E.O.B. at 86' bgs (Refusal due to weathered rock)	
				87			
				89			

TRC

BORING No.: SB-31

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holder #5
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 20th St between 10th and 11th Ave		6.47/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Lloyd Adams	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25" Hollow Stem Auger	10/9/2004	10/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27'	7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				0		0.0'-0.5': CONCRETE	
				1		0.5'-9.0': Fill-Dk brown SILT, f to c SAND, some gravel, brick fragments, wood fibers and sewage odor.	1'-2': N/O, N/S PID = 0.2 ppm max.
							2'-3': N/O, N/S PID = 0.2 ppm max.
				3			3'-4': N/O, N/S PID = 0.3 ppm max.
							4'-5': N/O, N/S PID = 0.1 ppm max.
				5			5'-7': N/O, N/S PID = 0.1 ppm max.
						Sample collected: W18STMGP-B31-7.17.7	
				7		Sample collected: W18STMGP-B31-78	7'-9': Sl sewage odor, N/S PID = 3.5 ppm max.
	1	0.05'	1				
			2				
			1				
			1/2.0'	9		9.0'-13.1': Fill- Lt gray f SAND, SILT, tr m sand, clay, brick fragments and wood fibers.	9'-11': Sl sewage odor, N/S PID = 2.1 ppm max.
	2	0.8'					
				11			
			1				11'-13': Sl sewage odor
	3	0.1'	1				PID = 0.6 ppm max. in shoe
			2				
			4				
			WOH	13		13.1'-21.0': Fill-Gray f SAND, tr silt, wood timbers and brick fragments.	13'-15': Burned wood odor, N/S
	4	0.6'	5				PID = 0.7 ppm max.
			13				
			7				
			15	15			15'-17': Burned wood odor, N/S
	5	0.8'	50/5"				PID = 0.9 ppm max.
				17			
			23				17'-19': Burned wood odor, N/S
	6	1.0'	50				PID = 2.1 ppm max.

TRC

BORING No.: SB-31

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holder #5
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 20th St between 10th and 11th Ave		6.47/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Lloyd Adams	Jessica Elliott
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME-LC60	4.25" Hollow Stem Auger	10/9/2004 / 10/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			17				
			17				
			17	19			19'-21': Burned wood odor, N/S
	7	0.6'	14				PID = 1.2 ppm max.
			9				
			5			Sample collected: W18STMGP-B31-2123	
			1/2.0'	21		21.1-27.0': ML-Gray silty CLAY, tr f sand and shell fragments.	21'-23': N/O, N/S
	8	1.1'					PID = 1.7 ppm max.
			WOH/2'	23			23'-25': N/O, N/S
	9	2.0'					PID = 2.4 ppm max.
			WOH/2'	25		Sample collected: W18STMGP-B31-2527	25'-27': N/O, N/S
	10	2.0'					PID = 0.0 ppm max.
				27		E.O.B @ 27' bgs.	
				29			
				31			
				33			
				35			

TRC

BORING No.: MW-31A

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	East of Gas Holder #5
ADDRESS		**ELEVATION/DATUM**
Southern sidewalk on 20th St between 10th and 11th Ave		6.48/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Lloyd Adams	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME-LC60	4.25" Hollow Stem Auger	10/9/2004	10/9/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	14'	7.5'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
					1		0.0'-0.5': CONCRETE 0.5'-9.0': Fill-Dk brown SILT, f to c SAND, some gravel, brick fragments and wood fibers.	1'-2': N/O, N/S PID = 0.2 ppm max. 2'-3': N/O, N/S PID = 0.2 ppm max. 3'-4': N/O, N/S PID = 0.3 ppm max. 4'-5': N/O, N/S PID = 0.1 ppm max. 5'-7': N/O, N/S PID = 0.1 ppm max.
					3			
					5			
					7			
				1			Sample collected: W18STMGP-B31-78	7'-9': Sl sewage odor, N/S PID = 3.5 ppm max.
		1	0.05'	1				
				2				
				1				
				1/2.0'	9		9.0'-13.1': Fill- Lt gray f SAND, SILT, tr m sand and clay, brick fragments and wood fibers.	9'-11': Sl sewage odor, N/S PID = 2.1 ppm max.
		2	0.8'					
					11			11'-13': Sl sewage odor PID = 0.6 ppm max. in shoe
				1				
		3	0.1'	1				
				2				
				4	13			14.0': Well set at 14.0' bgs. Screen Interval: 14.0'-4.0' bgs.
					15			
					17			

Sand
Bentonite Chips
Concrete
Well Screen

TRC

BORING No.: MW-34A

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Northern sidewalk on 19th St near West Side Highway		5.83/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Scott Fischer
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/22/2004 / 5/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	12.5' / 5.0'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1		0.0'-0.5': CONCRETE 0.5'-3.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, tr wood fibers, brick fragments and coal fragments.	1'-2': N/O, N/S PID = 4.1 ppm max. 2'-3': Sl petroleum odor, N/S PID = 0.0 ppm max.
				3		3.0-7.0': Fill-Dk gray clayey SILT, f SAND, some m to c sand, some brick and coal fragments and tr wood fibers.	3'-4': N/O, N/S PID = 0.0 ppm max. 4'-5': N/O, N/S
				5	▼	Sample collected: W18STMGP-B34-45	PID = 0.0 ppm max. 5'-6': N/O, N/S PID = 0.5 ppm max. 5'-6': N/O, N/S PID = 0.6 ppm max.
				7		7.0'-15.0': Fill-Black clayey SILT and GRAVEL and ltl to some sand.	7'-9': N/O, N/S PID = 0.0 ppm max.
				9			9'-11': N/O, N/S PID = 0.0 ppm max.
				11			11'-13': N/O, N/S PID = 0.0 ppm max.
				13			
				15			
				17		Well set at 12.5' bgs. Screen interval from 12.0' to 2.0' bgs with 6" sump from 12.5' to 12.0' bgs.	

Sand
Bentonite Chips
Concrete
Well Screen

TRC

BORING No.: SB-34

SHEET 1 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Northern sidewalk on 19th St near West Side Highway		5.59/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25"/3.25" Hollow Stem Auger	8/10/2004 / 8/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	75' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-0.5': CONCRETE	
				1		0.5'-3.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, tr wood fibers, brick fragments and coal fragments.	1'-2': N/O, N/S PID = 4.1 ppm max.
				3		3.0-7.0': Fill-Dk gray clayey SILT, f SAND, some m to c sand, some brick and coal fragments and tr wood fibers.	2'-3': Sl petroleum odor, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5		Sample collected: W18STMGP-B34-45	4'-5': N/O, N/S PID = 0.0 ppm max. 5'-6': N/O, N/S PID = 0.5 ppm max.
				7	▼		5'-6': N/O, N/S PID = 0.6 ppm max.
			1			7.0'-15.0': Fill-Black clayey SILT and GRAVEL and ltl to some sand.	7'-9': N/O, N/S
	1	0.3'	1				PID = 0.0 ppm max.
			2				
			2	9			
			1				9'-11': N/O, N/S
	2	0.4'	1				PID = 0.0 ppm max.
			1				
			1				
			2	11			11'-13': N/O, N/S
	3	0.3'	1				PID = 0.0 ppm max.
			1				
			2				
			1	13			13'-15': N/O, N/S
	4	0.3'	1				PID = 0.0 ppm max.
			1				
			2				
			1	15		15.0'-19.0': Fill-M to c SAND, ltl to some gravel, ltl cobble and brick fragments.	15'-17': N/O, N/S
	5	1.7'	2				PID = 0.0 ppm max.
			1				
			3				
			WOH	17			17'-19': N/O, N/S
	6	1.6'	1				PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Northern sidewalk on 19th St near West Side Highway		5.59/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25"/3.25" Hollow Stem Auger	8/10/2004	8/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	75'	7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			1				
			2				
			3	19		19.0'-21.0': Fill-V f to m SAND, some silt and brick fragments.	19'-21': Visible OLM and sheen, N/O, N/S
	7	1.0'	6				PID = 0.0 ppm max.
			9				
			12			Sample collected: W18STMGP-B34-20.521	
			12	21		21.0'-51.0': ML-Gray silty CLAY, tr f sand, cobbles, shell fragments and tr organics	21'-23': OLM outside of spoon, N/O, N/S
	8	1.7'	15				PID = 6.0 ppm max.
			11				
			11				
			2	23			23'-25': N/O, N/S
	9	1.7'	2				PID = 8.2 ppm max.
			1				
			5				
			3	25		0.0'-25.0': Temporary casing set on 8/10/04, allowed to set overnight and completed using 3.25" HSA on 8/12/04.	25'-27': N/O, N/S
	10	2.0;	5				PID = 3.6 ppm max.
			2				25'-27': N/O, N/S
			4				
			6	27			27'-29': N/O, N/S
	11	1.2'	6				PID = 2.1 ppm max.
			6				
			6			Sample collected: W18STMGP-B27-28.529	
			9	29			29'-31': N/O, N/S
	12	0.1'	50/4				PID = 0.0 ppm max.
			4	31			31'-33': N/O, N/S
	13	2.0'	3				PID = 0.0 ppm max.
			6				
			12				
			3	33			33'-35': N/O, N/S
	14	2.0'	7				PID = 0.0 ppm max.
			6			34.2'-34.4': Organic peat layer	
			4				
			5	35			35'-37': N/O, N/S
	15	2.0'	5				PID = 0.0 ppm max.

TRC

BORING No.: SB-34

BORING LOG

SHEET 3 OF 5

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Northern sidewalk on 19th St near West Side Highway		5.59/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25''/3.25" Hollow Stem Auger	8/10/2004 / 8/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	75' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			6			36.0'-36.1': Organic peat layer.	
			11				
			6	37		37.0': Dimishing amount of shell fragments in silty clay.	37'-39': N/O, N/S
	16	2.0'	4				PID = 0.0 ppm max.
			6				
			6				
			4	39			39'-41': N/O, N/S
	17	0.1'	12				PID = 0.0 ppm max.
			16				
			10				
			6	41			41'-43': N/O, N/S
	18	2.0'	4				PID = 0.0 ppm max.
			4				
			8				
			6	43			43'-45': N/O, N/S
	19	2.0'	8				PID = 0.0 ppm max.
			9				
			10				
			5	45			45'-47': N/O, N/S
	20	2.0'	7				PID = 0.0 ppm max.
			12				
			20				
			8	47			47'-49': N/O, N/S
	21	2.0'	17				PID = 0.0 ppm max.
			24				
			50/3				
			5	49			49'-51': N/O, N/S
	22	1.0'	35				PID = 0.0 ppm max.
			35				
			50/2				
			9	51		51.0'-57.0': SM-Lt to medium brown SILT and v f to m SAND.	51'-53': N/O, N/S
	23	0.2'	14				PID = 0.0 ppm max.
			12				
			50/1				
				53			53'-55': N/O, N/S
	24	1.6'					PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard
ADDRESS		**ELEVATION/DATUM**
Northern sidewalk on 19th St near West Side Highway		5.59/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25"/3.25" Hollow Stem Auger	8/10/2004 / 8/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	75' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				55			
			13				55'-57': N/O, N/S
	25	0.0'	15				PID = 0.0 ppm max.
			18				
			14	57			
			5			57.0'-59.0': GW-Brown C SAND and v f to m rounded GRAVEL.	57'-59': N/O, N/S
	26	1.0'	7				PID = 0.0 ppm max.
			10				
			13	59			
			7			59.0'-71.0': SW-Medium brown v f to c SAND and f subangular GRAVEL. As depth	59'-61': N/O, N/S
	27	0.7'	12			increases, sand and gravel grade to coarser and more angular grains.	PID = 0.0 ppm max.
			9				
			14	61			
			14				61'-63': N/O, N/S
	28	0.9'	12				PID = 0.0 ppm max.
			6				
			9	63			
			29				63'-65': N/O, N/S
	29	0.8'	14				PID = 0.0 ppm max.
			50/3				
				65			
			8				65'-67': N/O, N/S
	30	1.7'	7				PID = 0.0 ppm max.
			10				
			12	67			
			5				67'-69': N/O, N/S
	31	1.1'	9				PID = 0.0 ppm max.
			12				
			6	69			
			15				69'-71': N/O, N/S
	32	0.4'	18				PID = 0.0 ppm max.
			18				
			20	71			
			15			71.0'-73.0': SM-V f to f SAND and SILT	71'-73': N/O, N/S
	33	0.4'	15				PID = 0.0 ppm max.

TRC

BORING No.: SB-34

SHEET 5 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	South of Gas Holder #6 and north of Gas Light Co. Store Yard	
ADDRESS		**ELEVATION/DATUM**	
Northern sidewalk on 19th St near West Side Highway		5.59/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25"/3.25" Hollow Stem Auger	8/10/2004	8/12/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	75'	7.5'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				17				
				14	73			
				50/3			73.0'-75.0': GW-Angular and subangular f to c GRAVEL.	73'-75': N/O, N/S
		34	0.2'					PID = 0.0 ppm max.
							75.0': Refusal (believed to be Bedrock-Schist)	
					75		E.O.B. at 75.0' bgs (Refusal at Bedrock)	
					77			
					79			
					81			
					83			
					85			
					87			
					89			

TRC

BORING No.: SB-32

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Scott Fischer	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/22/2004	5/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	29'	4.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0.0'-0.2': CONCRETE.	
				1		0.2'-2.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	1': N/O, N/S PID (headspace) = 0.5 ppm max.
						2.0'-3.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	2': N/O, N/S, PID = 1.2 ppm max.
				3		3.0'-5.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	3': N/O, N/S
						4.5'-5.0': Fill-Dk gray SILT, f to c SAND, GRAVEL, some wood fibers, glass and brick fragments.	4.5': Sulfur-like odor and N/S PID = 0.2 ppm max.
				5		Sample collected: W18STMGP-B32-45	
			8			5.0'-6.6': Fill/ML-Dk gray silty CLAY, m to c rounded GRAVEL and tr brick fragments.	5': Sulfur-like odor and N/S PID (headspace) = 1.2 ppm max.
	1	1.6'	4				
			2				5'-7': Sl petroleum odor, blk staining PID = 0.3 ppm max.
			5	7			
			6			7.0'-9.0': No Recovery	
	2	0.0'	6				
			5				
			6	9			
			4			9.0'-10.5': Fill/ML-Dk gray SILT and CLAY, some f to c sand and f gravel, tr brick fragments and concrete.	9'-11': Sl petroleum odor, moderate organic odor and tr blk staining PID = 1.2 ppm max.
	3	1.5'	4				
			7				
			1	11			
			4			11.0'-12.5': Fill/ML-Dk gray silty CLAY, some f to c sand and m gravel.	11'-13': Sl petroleum and organic odor, N/S White substance has sheen
	4	1.7'	12			Sample collected: W18STMGP-B32-1113	
			18			12.5'-12.7': Fill/SW-Reddish brown f to c SAND, some f to m gravel and an unidentifiable white sandy substance.	PID = 3.5 ppm max.
			20	13			
			6			13.0'-14.0': Fill/ML-Dk gray silty CLAY, some f to c sand and m gravel.	13'-15': N/O, N/S
	5	1.2'	8				PID = 0.4 ppm max.
			6			14.0'-14.2': Fill/SW-Tan f to c SAND, m GRAVEL and tr silt and brick fragments.	
			9	15			
			7			15.0'-16.0': Fill-Tan SILT, f to c SAND and GRAVEL, tr gray soil and white substance (as in 11'-13').	15'-17': N/O, blk staining
	6	2.0'	13				PID = 0.3 ppm max.
			9			16.0'-17.0': Fill-Blk slag and coal fragments and tr brick fragments.	
			20	17			
			17			17.0'-18.5': Fill-Blk slag and coal fragments and tr brick fragments.	17'-19': N/O, blk staining
	7	1.5'	17				PID = 0.4 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Scott Fischer	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/22/2004	5/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	29'	4.5'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				13				
				12	19			
				10			19.0'-20.0': Fill-Dk gray SILT, f to c SAND and GRAVEL and some slag and brick fragments.	19'-21': N/O, blk staining, sl sheen
		8	1.0'	16				PID = 0.5 ppm max.
				25				
				46	21			
				25			21.0'-21.5': Fill-Dk gray SILT, f to c SAND and GRAVEL and some slag and brick fragments.	21'-23': N/O, N/S
		9	1.0'	15				PID = 0.4 ppm max.
				25			21.5-22.0': Fill-Brown SILT, f to c SAND and GRAVEL, tr cobbles and gray soil.	
				30			Sample collected: W18STMGP-B32-2123	
				7	23		23.0'-24.8': ML-Dk gray silty CLAY, tr f to m sand and f gravel.	23'-25': N/O, N/S
		10	1.8'	6				PID = 0.0 ppm max.
				12				
				25				
				10	25		25.0'-26.2': ML-Dk gray silty CLAY, tr f to m sand and f gravel, organic matter and white shell stringer at 25.8' bgs.	25'-27': Organic odor, N/S
		11	1.2'	4				PID = 0.0 ppm max.
				7				
				9				
				4	27		27.0'-29.0': ML-Dk gray silty CLAY, tr vf to f sand, white shells and organic matter.	27'-29': Organic odor, N/S
		12	2.0'	6				PID = 0.0 ppm max.
				13				
				12				
					29		E.O.B. at 29' bgs	
					31			
					33			
					35			

TRC

BORING No.: SB-33

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
							0.0'-0.1': CONCRETE	
					1		0.1'-2.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	1': N/O, N/S PID (headspace) = 0.7 ppm max.
							2.0'-3.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	2': N/O, N/S PID (headspace) = 1.2 ppm max.
					3		3.0'-4.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	3': N/O, N/S, PID = 0.2 ppm max. PID (headspace) = 1.4 ppm max.
							4.0'-5.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	4': N/O, N/S PID (headspace) = 0.9 ppm max.
					5	▼	Sample collected: W18STMGP-B33-45	5'-7': Petroleum-like odor, N/S, sheen
		1	0.2'	15 50 54			5.0'-5.2': Fill-Brown SILT, f to c SAND, GRAVEL and 2" of brick fragments and wood fibers.	PID = 13.6 ppm max.
				56	7			
				82			7.0'-7.3': Fill-Brick fragments, GRAVEL and tr f to c sand.	7'-9': N/O, N/S
		2	1.3'	16 10 12			7.3'-8.3': Fill-Gray f to c SAND, GRAVEL and brick fragments.	PID = 0.2 ppm max.
				54	9		9.0'-9.8': Fill-Dk gray f to m silty SAND and tr gravel.	9'-11': N/O, N/S, tr sheen
		3	0.8'	100/3				PID = 0.0 ppm max.
				4	11		11.0'-12.0': Fill-Dk gray f to c SAND, tr silt, brick fragments and organics and 1" f sand lense.	11'-13': Sl odor, N/S
		4	1.0'	8 15			Sample collected: W18STMGP-B33-1113	PID = 0.1 ppm max.
				13	13			
		5	1.1'	15 12			13.0'-14.1': Fill/SP-Dk gray c SAND, tr silt, f to m sand, gravel, blk organics and brick fragments.	13'-15': N/O, N/S PID = 0.0 ppm max.
				12 12			Sample collected: W18STMGP-B33-1315	
				11	15		15.0'-16.3': Fill/SP-Dk gray c SAND, tr silt, f to m sand, gravel, blk organics and brick fragments.	15'-17': N/O, N/S
		6	1.5'	22 11			16.3'-16.5': Fill/SP-V f SAND lense.	PID = 0.0 ppm max.
				15	17			
				25			17.0'-17.5': Fill/SP-Dk gray f SAND.	17'-19': N/O, N/S
		7	1.4'	17			17.5'-18.4': Fill/SW-Dk gray m to c SAND, GRAVEL and brick fragmenrs.	PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000		
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				36				
				23				
				25	19		19.0'-19.3': Fill/SP-Brownish gray c SAND and tr gravel.	19'-21': N/O, N/S
		8	0.3'	37				PID = 0.1 ppm max.
				36				
				22				
				6	21		21.0'-22.0': Fill/SP-Brownish gray c SAND and tr gravel and blk f to c sand and tr gravel and tr wood fibers in shoe.	21'-23': N/O, N/S, but in shoe, blk staining, MGP-related OLM odor and sheen
		9	1.0'	12				
				16				PID = 60.2 ppm max.
				8				
				12	23		23.0'-25.0': Fill/SP-Brownish gray m to c SAND.	23'-25': Sl OLM odor, N/S
		10	2.0'	24				PID = 2.1 ppm max.
				54				
				100/2				
				15	25		25.0'-27.0': Fill/SP-Brownish gray m to c SAND.	25'-27': N/O, N/S, tr sheen
		11	2.0'	24				PID = 6.8 ppm max.
				38				
				36				
				48	27		27.0'-27.1': Drilling through wood timbers. Wood timbers, dk gray c SAND, GRAVEL, some brick fragments and wood fibers.	27'-29': Strong OLM odor, blk staining
		12	0.1'	36				PID = 11.4 ppm max.
				100/1				
				100/4	29		29.0'-31.0': No Recovery. Some wood fibers in spoon.	29'-31': OLM odor, blk staining and tr sheen
		13	0.0'					PID = 2.4 ppm max.
				27	31		31.0'-33.0': No Recovery	
		14	0.0'	10				
				10				
				6				
				14	33		33.0'-35.0': No Recovery	
		15	0.0'	10				
				6				
				6				
				7	35		35.0'-37.0': ML-Dk gray silty CLAY with a lot of wood fibers.	35'-37': Strong OLM odor in wood, N/S
		16	2.0'	6			Sample collected: W18STMGP-B33-3537	PID = 14.2 ppm max.

TRC

BORING No.: SB-33

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL	CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				8				
				10	37			
				7			37.0'-39.0': ML-Dk gray silty CLAY with a lot of wood fibers.	37'-39': N/O, N/S
		17	2.0'	7				PID = 2.4ppm max.
				8				
				10	39			
				7			39.0'-41.0': ML-Dk gray silty CLAY with a lot of wood fibers.	39'-41': N/O, N/S
		18	2.0'	7			Sample collected: W18STMGP-B33-3941	PID = 1.2 ppm max.
				6				
				8	41		E.O.B. at 41' bgs	
					43			
					45			
					47			
					49			
					51			
					55			

TRC

BORING No.: SB-36

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.44/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/8/2004	5/8/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	35'	4.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
						0.0'-1.5': CONCRETE	
				1		1.5'-2.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	1.5': N/O, N/S PID (headspace) = 0.5 ppm max.
						2.0'-3.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	2': N/O, N/S PID (headspace) = 0.2 ppm max.
				3		3.0'-5.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	3': N/O, N/S, PID = 0.2 ppm max. PID (headspace) = 0.2 ppm max.
					▼	Sample collected: W18STMGP-B36-34	
				5			
			4			5.0'-5.5': Fill-Blk SILT, f to c SAND, GRAVEL, some concrete, wood fibers and brick fragments.	
	1	0.5'	10				5'-7': Petroleum-like odor, blk staining
			100/2			Sample collected: W18STMGP-B36-57	PID = 0.0 ppm max.
				7			
			40			7.0'-7.1': Fill-Blk SILT, f to c SAND, GRAVEL, some concrete brick fragments and wood fibers with some metal scraps.	7'-9': Petroleum-like odor, blk staining visible sheen
	2	0.1'	100/0				PID = 0.2 ppm max.
				9			
			25			9.0'-10.0': Fill-Gray SILT, f to c SAND, GRAVEL, some concrete, brick fragments and tr wood fibers.	9'-11': N/O, N/S, sl sheen
	3	1.0'	42				PID = 0.0 ppm max.
			18				
			9				
			2	11		11.0'-13.0': Fill-Gray SILT, f to m SAND, tr c sand, gravel and brick fragments.	11'-13": N/O, N/S
	4	2.0'	1				PID = 0.0 ppm max.
			6				
			5				
			2	13		13.0'-15.0': Fill/SM-Brownish graySILT, f SAND, tr m sand, organics and wood fibers.	13'-15': N/O, N/S
	5	2.0'	2				PID = 0.0 ppm max.
			2				
			2				
			2	15		15.0'-17.0': Fill/SM-Brown f sandy SILT with .25' thick f sand lenses and tr wood fibers.	15'-17': Sl organic odor, N/S
	6	2.0'	3				PID = 0.0 ppm max.
			3				
			5				
			1	17		17.0'-19.0': Fill/SM-Brown f sandy SILT with .25' thick f sand lenses and tr wood fibers.	17'-19': Sl organic odor, N/S
	7	2.0'	1				PID = 0.0 ppm max.

TRC

BORING No.: SB-36

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.44/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/8/2004	5/8/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	35'	4.5'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				1			Sample collected: W18STMGP-B36-1719	
				1				
					19		19.0'-21.0': Unable to sample because the auger driller passed the interval.	19'-21': N/A
		8	0.0'					
					21			
				3			21.0'-23.0': Fill/SP-Gray f SAND and tr brown silt and wood fibers in bottom 2" of spoon. Tar and gravel in shoe.	21'-23': N/O, N/S
		9	2.0'	3				PID = 0.0 ppm max.
				100/1				
					23			
				100/2			23.0'-23.2': Fill/SP-Gray f SAND and tr brown silt and wood fibers in bottom 2" of spoon. Tar and gravel in shoe.	23'-25': Strong natural gas-like or decaying odor, N/S
		10	0.3'				23.2'-23.3': Fill/SP-Gray SILT, f SAND and tr m and c and. Wood fibers in shoe.	PID = 0.0 ppm max.
					25			
				3			25.0'-27.0': Fill/SW-Gray SILT, f to m SAND, GRAVEL, wood fibers, tr reddish brown silty sand, tar and shell fragments.	25'-27': Strong natural gas-like or decaying odor, N/S
		11	2.0'	3				PID = 219 ppm max.
				4			Sample collected: W18STMGP-B36-2527	
				5				
				4	27		27.0'-28.0': SP-Dk gray SILT, f SAND, shell fragments, tar-like viscous material and wood fibers.	27'-29': N/O, N/S
		12	2.0'	3				PID = 24.1 ppm max.
				2			28.0'-29.0': ML-Dk gray silty CLAY and shell fragments.	
				4				
				1	29		29.0'-30.5': ML-Dk gray silty CLAY and shell fragments.	29'-31': N/O, N/S
		13	1.5'	2				PID = 0.0 ppm max.
				3				
				3				
				3	31		31.0'-33.0': ML-Dk gray silty CLAY and shell fragments.	31'-33': N/O, N/S
		14	2.0'	2				PID = 0.0 ppm max.
				2				
				2				
				2	33			
				4			33.0'-34.7': ML-Dk gray silty CLAY and shell fragments.	33'-35': N/O, N/S
		15	1.7'	4			Sample collected: W18STMGP-B36-3335	PID = 0.0 ppm max.
				4				
				5				
					35			
							E.O.B. at 35' bgs	

TRC

BORING No.: SB-38

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.82/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	25'	4.6'

WELL CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-1.5': CONCRETE	
				1		1.5'-2.0': Fill-Brown SILT, f to c SAND, GRAVEL, CONCRETE, some brick fragments, tr wood fibers and coal fragments.	1.5': N/O, N/S, PID = 0.0 ppm max.
						2.0'-5.0': Fill-Brown SILT, f to c SAND, GRAVEL, CONCRETE, some brick fragments, tr wood fibers and coal fragments.	
				3			3': N/O, N/S PID (headspace) = 0.1 ppm max.
					▼		4': N/O, N/S PID (headspace) = 0.3 ppm max.
						Sample collected: W18STMGP-B38-45	
				5		5.0'-7.0': No Recovery. Brown SILT, f to c SAND and GRAVEL in shoe.	
	1	0.0'	10 15 50/2				5'-7': Sl odor, N/S and visible sheen PID = N/A
				7			
	2	0.05'	50/5			7.0'-7.05': Fill-Brown SILT, f to c SAND and GRAVEL and 3" of red brick in shoe.	7'-9': Sl odor, N/S and visible sheen PID = 0.2 ppm max.
				9			
	3	0.05'	50/1			9.0'-9.05': Fill-Brown SILT, f to c SAND and GRAVEL and 3" of red brick in shoe.	9'-11': Sewage-like odor, N/S and sheen PID = 1.1 ppm max.
				11			
	4	0.6'	3 3 3 3			11.0'-11.6': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL and tr brick fragments.	11'-13': Sl organic odor, N/S, tr sheen PID = 1.3ppm max.
				13			
	5	2.0'	2 2 3 4			13.0'-15.0': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers. Sample collected: W18STMGP-B38-1315	13'-15': Sl organic odor, N/S, tr sheen PID = 0.2 ppm max.
				15			
	6	2.0'	1 3 3 4			15.0'-17.0': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers.	15'-17': Sl organic odor, N/S, tr sheen PID = 0.3 ppm max.
				17			
	7	2.0'	3 2			17.0'-17.5': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers.	17'-19': N/O, N/S PID = 0.3 ppm max.

TRC

BORING No.: SB-38

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.82/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	25'	4.6'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
				2				
				4	19		17.5'-19.0': ML-Dk gray silty CLAY.	
				5			19.0'-21.0': ML-Dk gray silty CLAY.	19'-21': N/O, N/S
		8	2.0'	4				PID = 0.0 ppm max.
				5				
				3	21			
				4			21.0'-23.0': ML-Dk gray silty CLAY, tr f sand, shell fragments and wood fibers.	21'-23': N/O, N/S
		9	2.0'	4			Sample collected: W18STMGP-B38-2123	PID = 0.0 ppm max.
				5				
				6	23			
				10			23.0'-23.3': ML-Dk gray silty CLAY, tr f sand, shell fragments and wood fibers.	23'-25': N/O, N/S
		10	2.0'	8			23.3'-24.3': SP-Blk c SAND and tr gravel.	PID = 0.0 ppm max.
				10			24.3'-25.0': SM-Lt brown SILT and f to c SAND.	
				12	25			
							E.O.B. at 25' bgs	
					27			
					29			
					31			
					33			
					35			

f - fine m - medium c - coarse
lt - light dk - dark tr - trace ltl - little sl - slight

(PID, STAINING, ODORS, ETC.)

N/S = No Staining
N/O = No odors

TRC

BORING LOG

BORING No.: SB-32
SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Scott Fischer	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/22/2004	5/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	29'	4.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-0.2': CONCRETE.	
				1		0.2'-2.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	1': N/O, N/S PID (headspace) = 0.5 ppm max.
						2.0'-3.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	2': N/O, N/S, PID = 1.2 ppm max.
				3		3.0'-5.0': Fill-Dk to lt brown f to c silty SAND, tr clay, wood fibers, concrete and brick fragments.	3': N/O, N/S
						4.5'-5.0': Fill-Dk gray SILT, f to c SAND, GRAVEL, some wood fibers, glass and brick fragments.	4.5': Sulfur-like odor and N/S PID = 0.2 ppm max.
				5		Sample collected: W18STMGP-B32-45	
			8			5.0'-6.6': Fill/ML-Dk gray silty CLAY, m to c rounded GRAVEL and tr brick fragments.	5': Sulfur-like odor and N/S PID (headspace) = 1.2 ppm max.
	1	1.6'	4				
			2				5'-7': Sl petroleum odor, blk staining
			5	7			PID = 0.3 ppm max.
			6			7.0'-9.0': No Recovery	
	2	0.0'	6				
			5				
			6	9			
			4			9.0'-10.5': Fill/ML-Dk gray SILT and CLAY, some f to c sand and f gravel, tr brick fragments and concrete.	9'-11': Sl petroleum odor, moderate organic odor and tr blk staining
	3	1.5'	4				PID = 1.2 ppm max.
			7				
			1	11			
			4			11.0'-12.5': Fill/ML-Dk gray silty CLAY, some f to c sand and m gravel.	11'-13': Sl petroleum and organic odor, N/S White substance has sheen
	4	1.7'	12			Sample collected: W18STMGP-B32-1113	
			18			12.5'-12.7': Fill/SW-Reddish brown f to c SAND, some f to m gravel and an unidentifiable white sandy substance.	PID = 3.5 ppm max.
			20	13			
			6			13.0'-14.0': Fill/ML-Dk gray silty CLAY, some f to c sand and m gravel.	13'-15': N/O, N/S
	5	1.2'	8				PID = 0.4 ppm max.
			6			14.0'-14.2': Fill/SW-Tan f to c SAND, m GRAVEL and tr silt and brick fragments.	
			9	15			
			7			15.0'-16.0': Fill-Tan SILT, f to c SAND and GRAVEL, tr gray soil and white substance (as in 11'-13').	15'-17': N/O, blk staining
	6	2.0'	13				PID = 0.3 ppm max.
			9			16.0'-17.0': Fill-Blk slag and coal fragments and tr brick fragments.	
			20	17			
			17			17.0'-18.5': Fill-Blk slag and coal fragments and tr brick fragments.	17'-19': N/O, blk staining
	7	1.5'	17				PID = 0.4 ppm max.

TRC

BORING No.: SB-32
SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NE corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.97/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Scott Fischer	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/22/2004	5/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	29'	4.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
			13				
			12	19			
			10			19.0'-20.0': Fill-Dk gray SILT, f to c SAND and GRAVEL and some slag and brick fragments.	19'-21': N/O, blk staining, sl sheen
	8	1.0'	16				PID = 0.5 ppm max.
			25				
			46	21			
			25			21.0'-21.5': Fill-Dk gray SILT, f to c SAND and GRAVEL and some slag and brick fragments.	21'-23': N/O, N/S
	9	1.0'	15				PID = 0.4 ppm max.
			25			21.5-22.0': Fill-Brown SILT, f to c SAND and GRAVEL, tr cobbles and gray soil.	
			30	23		Sample collected: W18STMGP-B32-2123	
			7			23.0'-24.8': ML-Dk gray silty CLAY, tr f to m sand and f gravel.	23'-25': N/O, N/S
	10	1.8'	6				PID = 0.0 ppm max.
			12				
			25	25			
			10			25.0'-26.2': ML-Dk gray silty CLAY, tr f to m sand and f gravel, organic matter and white shell stringer at 25.8' bgs.	25'-27': Organic odor, N/S
	11	1.2'	4				PID = 0.0 ppm max.
			7				
			9	27			
			4			27.0'-29.0': ML-Dk gray silty CLAY, tr vf to f sand, white shells and organic matter.	27'-29': Organic odor, N/S
	12	2.0'	6				PID = 0.0 ppm max.
			13				
			12	29			
						E.O.B. at 29' bgs	
				31			
				33			
				35			

TRC

BORING No.: SB-33

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL	CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
							0.0'-0.1': CONCRETE	
					1		0.1'-2.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	1': N/O, N/S PID (headspace) = 0.7 ppm max.
							2.0'-3.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	2': N/O, N/S PID (headspace) = 1.2 ppm max.
					3		3.0'-4.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	3': N/O, N/S, PID = 0.2 ppm max. PID (headspace) = 1.4 ppm max.
							4.0'-5.0': Fill-Brown f to c silty SAND, GRAVEL, tr brick fragments, concrete, slag and tr wood fibers.	4': N/O, N/S PID (headspace) = 0.9 ppm max.
				15	5		Sample collected: W18STMGP-B33-45	5'-7': Petroleum-like odor, N/S, sheen
		1	0.2'	50			5.0'-5.2': Fill-Brown SILT, f to c SAND, GRAVEL and 2" of brick fragments and wood fibers.	PID = 13.6 ppm max.
				54				
				56	7			
				82			7.0'-7.3': Fill-Brick fragments, GRAVEL and tr f to c sand.	7'-9': N/O, N/S
		2	1.3'	16			7.3'-8.3': Fill-Gray f to c SAND, GRAVEL and brick fragments.	PID = 0.2 ppm max.
				10				
				12	9			
				54			9.0'-9.8': Fill-Dk gray f to m silty SAND and tr gravel.	9'-11': N/O, N/S, tr sheen
		3	0.8'	100/3				PID = 0.0 ppm max.
					11			
				4			11.0'-12.0': Fill-Dk gray f to c SAND, tr silt, brick fragments and organics and 1" f sand lense.	11'-13': Sl odor, N/S
		4	1.0'	8				PID = 0.1 ppm max.
				15			Sample collected: W18STMGP-B33-1113	
				13	13			
				15			13.0'-14.1': Fill/SP-Dk gray c SAND, tr silt, f to m sand, gravel, blk organics and brick fragments.	13'-15': N/O, N/S
		5	1.1'	12				PID = 0.0 ppm max.
				12			Sample collected: W18STMGP-B33-1315	
				12	15			
				11			15.0'-16.3': Fill/SP-Dk gray c SAND, tr silt, f to m sand, gravel, blk organics and brick fragments.	15'-17': N/O, N/S
		6	1.5'	22				PID = 0.0 ppm max.
				11			16.3'-16.5': Fill/SP-V f SAND lense.	
				15	17			
				25			17.0'-17.5': Fill/SP-Dk gray f SAND.	17'-19': N/O, N/S
		7	1.4'	17			17.5'-18.4': Fill/SW-Dk gray m to c SAND, GRAVEL and brick fragmenrs.	PID = 0.0 ppm max.

TRC

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000		
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL	CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
				36				
				23				
				25	19		19.0'-19.3': Fill/SP-Brownish gray c SAND and tr gravel.	19'-21': N/O, N/S
		8	0.3'	37				PID = 0.1 ppm max.
				36				
				22				
				6	21		21.0'-22.0': Fill/SP-Brownish gray c SAND and tr gravel and blk f to c sand and tr gravel and tr wood fibers in shoe.	21'-23': N/O, N/S, but in shoe, blk staining, MGP-related OLM odor and sheen
		9	1.0'	12				PID = 60.2 ppm max.
				16				
				8				
				12	23		23.0'-25.0': Fill/SP-Brownish gray m to c SAND.	23'-25': Sl OLM odor, N/S
		10	2.0'	24				PID = 2.1 ppm max.
				54				
				100/2				
				15	25		25.0'-27.0': Fill/SP-Brownish gray m to c SAND.	25'-27': N/O, N/S, tr sheen
		11	2.0'	24				PID = 6.8 ppm max.
				38				
				36				
				48	27		27.0'-27.1': Drilling through wood timbers. Wood timbers, dk gray c SAND, GRAVEL, some brick fragments and wood fibers.	27'-29': Strong OLM odor, blk staining
		12	0.1'	36				PID = 11.4 ppm max.
				100/1				
				100/4	29		29.0'-31.0': No Recovery. Some wood fibers in spoon.	29'-31': OLM odor, blk staining and tr sheen
		13	0.0'					PID = 2.4 ppm max.
				27	31		31.0'-33.0': No Recovery	
		14	0.0'	10				
				10				
				6				
				14	33		33.0'-35.0': No Recovery	
		15	0.0'	10				
				6				
				6				
				7	35		35.0'-37.0': ML-Dk gray silty CLAY with a lot of wood fibers.	35'-37': Strong OLM odor in wood, N/S
		16	2.0'	6			Sample collected: W18STMGP-B33-3537	PID = 14.2 ppm max.

TRC

BORING LOG

BORING No.: SB-33
SHEET 3 OF 3

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Middle of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.50/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	41'	5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
			8				
			10				
			7	37		37.0'-39.0': ML-Dk gray silty CLAY with a lot of wood fibers.	37'-39': N/O, N/S
	17	2.0'	7				PID = 2.4ppm max.
			8				
			10				
			7	39		39.0'-41.0': ML-Dk gray silty CLAY with a lot of wood fibers.	39'-41': N/O, N/S
	18	2.0'	7			Sample collected: W18STMGP-B33-3941	PID = 1.2 ppm max.
			6				
			8				
				41		E.O.B. at 41' bgs	
				43			
				45			
				47			
				49			
				51			
				55			

TRC

BORING LOG

BORING No.: SB-36
SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.44/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/8/2004	5/8/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	35'	4.5'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
						0.0'-1.5': CONCRETE	
				1		1.5'-2.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	1.5': N/O, N/S PID (headspace) = 0.5 ppm max.
						2.0'-3.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	2': N/O, N/S PID (headspace) = 0.2 ppm max.
				3		3.0'-5.0': Fill-Dk brown SILT, f to c SAND, GRAVEL, and some concrete, wood fibers and brick fragments.	3': N/O, N/S, PID = 0.2 ppm max. PID (headspace) = 0.2 ppm max.
					▼	Sample collected: W18STMGP-B36-34	
			4	5		5.0'-5.5': Fill-Blk SILT, f to c SAND, GRAVEL, some concrete, wood fibers and brick fragments.	
	1	0.5'	10				5'-7': Petroleum-like odor, blk staining
			100/2			Sample collected: W18STMGP-B36-57	PID = 0.0 ppm max.
				7			
			40			7.0'-7.1': Fill-Blk SILT, f to c SAND, GRAVEL, some concrete brick fragments and wood fibers with some metal scraps.	7'-9': Petroleum-like odor, blk staining visible sheen
	2	0.1'	100/0				PID = 0.2 ppm max.
				9			
			25			9.0'-10.0': Fill-Gray SILT, f to c SAND, GRAVEL, some concrete, brick fragments and tr wood fibers.	9'-11': N/O, N/S, sl sheen
	3	1.0'	42				PID = 0.0 ppm max.
			18				
			9	11			
			2			11.0'-13.0': Fill-Gray SILT, f to m SAND, tr c sand, gravel and brick fragments.	11'-13": N/O, N/S
	4	2.0'	1				PID = 0.0 ppm max.
			6				
			5	13			
			2			13.0'-15.0': Fill/SM-Brownish graySILT, f SAND, tr m sand, organics and wood fibers.	13'-15': N/O, N/S
	5	2.0'	2				PID = 0.0 ppm max.
			2				
			2	15			
			2			15.0'-17.0': Fill/SM-Brown f sandy SILT with .25' thick f sand lenses and tr wood fibers.	15'-17': Sl organic odor, N/S
	6	2.0'	3				PID = 0.0 ppm max.
			3				
			5	17			
			1			17.0'-19.0': Fill/SM-Brown f sandy SILT with .25' thick f sand lenses and tr wood fibers.	17'-19': Sl organic odor, N/S
	7	2.0'	1				PID = 0.0 ppm max.

TRC

BORING LOG

BORING No.: SB-36
SHEET 2 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	SW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.44/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/8/2004	5/8/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	35'	4.5'

WELL CONSTRUCTION	SAMPLES NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
						f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
			1			Sample collected: W18STMGP-B36-1719	
			1				
				19			
						19.0'-21.0': Unable to sample because the auger driller passed the interval.	19'-21': N/A
	8	0.0'					
				21			
			3			21.0'-23.0': Fill/SP-Gray f SAND and tr brown silt and wood fibers in bottom 2" of spoon. Tar and gravel in shoe.	21'-23': N/O, N/S
	9	2.0'	3				PID = 0.0 ppm max.
			100/1				
				23			
			100/2			23.0'-23.2': Fill/SP-Gray f SAND and tr brown silt and wood fibers in bottom 2" of spoon. Tar and gravel in shoe.	23'-25': Strong natural gas-like or decaying odor, N/S
	10	0.3'					PID = 0.0 ppm max.
						23.2'-23.3': Fill/SP-Gray SILT, f SAND and tr m and c and. Wood fibers in shoe.	
				25			
			3			25.0'-27.0': Fill/SW-Gray SILT, f to m SAND, GRAVEL, wood fibers, tr reddish brown silty sand, tar and shell fragments.	25'-27': Strong natural gas-like or decaying odor, N/S
	11	2.0'	3				PID = 219 ppm max.
			4			Sample collected: W18STMGP-B36-2527	
			5				
			4	27		27.0'-28.0': SP-Dk gray SILT, f SAND, shell fragments, tar-like viscous material and wood fibers.	27'-29': N/O, N/S
	12	2.0'	3				PID = 24.1 ppm max.
			2			28.0'-29.0': ML-Dk gray silty CLAY and shell fragments.	
			4				
			1	29		29.0'-30.5': ML-Dk gray silty CLAY and shell fragments.	29'-31': N/O, N/S
	13	1.5'	2				PID = 0.0 ppm max.
			3				
			3				
			3	31		31.0'-33.0': ML-Dk gray silty CLAY and shell fragments.	31'-33': N/O, N/S
	14	2.0'	2				PID = 0.0 ppm max.
			2				
			2				
			4	33		33.0'-34.7': ML-Dk gray silty CLAY and shell fragments.	33'-35': N/O, N/S
	15	1.7'	4			Sample collected: W18STMGP-B36-3335	PID = 0.0 ppm max.
			4				
			5				
				35			
						E.O.B. at 35' bgs	

TRC

BORING LOG

BORING No.: SB-38
SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.82/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	25'	4.6'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-1.5': CONCRETE	
				1		1.5'-2.0': Fill-Brown SILT, f to c SAND, GRAVEL, CONCRETE, some brick fragments, tr wood fibers and coal fragments.	1.5': N/O, N/S, PID = 0.0 ppm max.
						2.0'-5.0': Fill-Brown SILT, f to c SAND, GRAVEL, CONCRETE, some brick fragments, tr wood fibers and coal fragments.	
				3			3': N/O, N/S PID (headspace) = 0.1 ppm max.
					▼	Sample collected: W18STMGP-B38-45	4': N/O, N/S PID (headspace) = 0.3 ppm max.
				5		5.0'-7.0': No Recovery. Brown SILT, f to c SAND and GRAVEL in shoe.	
			10				
	1	0.0'	15				5'-7': SI odor, N/S and visible sheen PID = N/A
			50/2				
				7		7.0'-7.05': Fill-Brown SILT, f to c SAND and GRAVEL and 3" of red brick in shoe.	7'-9': SI odor, N/S and visible sheen PID = 0.2 ppm max.
			50/5				
	2	0.05'					
				9		9.0'-9.05': Fill-Brown SILT, f to c SAND and GRAVEL and 3" of red brick in shoe.	9'-11': Sewage-like odor, N/S and sheen PID = 1.1 ppm max.
			50/1				
	3	0.05'					
				11		11.0'-11.6': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL and tr brick fragments.	11'-13': SI organic odor, N/S, tr sheen PID = 1.3ppm max.
			3				
	4	0.6'	3				
			3				
			3	13			
			2			13.0'-15.0': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers.	13'-15': SI organic odor, N/S, tr sheen PID = 0.2 ppm max.
	5	2.0'	2				
			3			Sample collected: W18STMGP-B38-1315	
			4				
			1	15		15.0'-17.0': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers.	15'-17': SI organic odor, N/S, tr sheen PID = 0.3 ppm max.
	6	2.0'	3				
			3				
			4				
			3	17		17.0'-17.5': Fill/SW-Dk grayish blk SILT, f to m SAND, GRAVEL, tr gray clay and shell fragments, brick fragments and tr wood fibers.	17'-19': N/O, N/S PID = 0.3 ppm max.
	7	2.0'	2				

TRC

BORING LOG

BORING No.: SB-38
SHEET 2 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	NW corner of W 19th St Parking Lot	
ADDRESS		**ELEVATION/DATUM**	
W 19th St Parking Lot		6.82/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Jessica Elliott	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	4.25" Hollow Stem Auger	5/16/2004	5/16/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
3" Split Spoon	140 lbs./30"	25'	4.6'

WELL CONSTRUCTION	SAMPLES NUMBER	SAMPLES RECOVERY IN FEET	SAMPLES BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining; N/O = No odors)
			2				
			4	19		17.5'-19.0': ML-Dk gray silty CLAY.	
			5			19.0'-21.0': ML-Dk gray silty CLAY.	19'-21': N/O, N/S
	8	2.0'	4				PID = 0.0 ppm max.
			5				
			3	21			
			4			21.0'-23.0': ML-Dk gray silty CLAY, tr f sand, shell fragments and wood fibers.	21'-23': N/O, N/S
	9	2.0'	4			Sample collected: W18STMGP-B38-2123	PID = 0.0 ppm max.
			5				
			6	23			
			10			23.0'-23.3': ML-Dk gray silty CLAY, tr f sand, shell fragments and wood fibers.	23'-25': N/O, N/S
	10	2.0'	8			23.3'-24.3': SP-Blk c SAND and tr gravel.	PID = 0.0 ppm max.
			10			24.3'-25.0': SM-Lt brown SILT and f to c SAND.	
			12	25		E.O.B. at 25' bgs	
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-39

SHEET 1 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside eastern section of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at Chelsea Piers between 19th and 20th St		6.52/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
CME 75	3.25" Hollow Stem Auger	7/21/2004	7/21/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27'	8'

WELL CONSTRUCTION	NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-1.9': COBBLESTONE, CONCRETE and rebar	
				1			1'-2': N/O, N/S, PID = 0.0 ppm max.
						1.9'-5.0': Fill-Brown SILT, f to c SAND, GRAVEL and tr concrete.	2'-3': N/O, N/S, PID = 0.0 ppm max.
				3			3'-4': N/O, N/S, PID = 0.0 ppm max.
							4'-5': N/O, N/S, PID = 0.0 ppm max.
				5			
			10			5.0'-6.1': Fill-Black f to c SAND, some silt, ltl to some m to c gravel, large wood timbers.	5'-7': Organic odor, N/S
	1	1.1'	4				PID = 2.0 ppm max.
			3				
			2	7			
			2			7.0'-13.0': Fill-Black v f to c SAND and some f to c gravel.	7'-9': N/O, N/S
	2	0.6'	1		▼	Sample collected: W18STMGP-B39-7.58.0	PID = 2.0 ppm max.
			1				
			1				
			1	9			9'-11': N/O, N/S
	3	1.2'	3				PID = 1.5 ppm max.
			2				
			4			10.8': Ash cinders.	
			3	11		11.0'-12.3': Wood fibers, tr organics and shell, brick and ceramic fragments.	11'-13': N/O, N/S
	4	1.3'	3				PID = 0.1 ppm max.
			2				
			4				
			3	13		13.0'-21.0' : Fill-Blackish gray SILT, v f SAND, ltl to some f to c, angular gravel, tr glass, ash cinders and wood fibers. Tr clay at 13.0', but content increases with depth.	13'-15': N/O, N/S
	5		4				PID = 1.9 ppm max.
			6				
			7				
			3	15			15'-17': N/O, N/S
	6		6				PID = 0.3 ppm max.
			4				
			4				
			3	17		17.0'-21.0': Wood fibers.	17'-19': N/O, N/S
	7	0.8'	2				PID = 0.2 ppm max.

TRC

BORING No.: SB-39

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside eastern section of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the cobblestone road at Chelsea Piers between 19th and 20th St		6.52/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
CME 75	3.25" Hollow Stem Auger	7/21/2004 / 7/21/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	27' / 8'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			2				
			5	19			
			5				19'-21': N/O, N/S
	8	0.8'	5				PID = 0.2 ppm max.
			4				
			2	21			
			WOH/3				21'-23': N/O, N/S
	9		3				PID = 0.9 ppm max.
			2				
			3			22.8'-27.0': ML-Gray silty CLAY and micaceous varves.	
			WOH/3	23		Sample collected: W18STMGP-B39-23.0	23'-25': N/O, N/S
	10		4				PID = 0.7 ppm max.
			2				
				25			25'-27': N/O, N/S
	11	1.2'					PID = N/A
				27		E.O.B. at 27' bgs.	
				29			
				31			
				33			
				35			

TRC

BORING No.: MW-40A

BORING LOG

SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.96/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-60	3.25" Hollow Stem Auger	7/26/2004	7/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	19'	6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				1		0.0'-0.5': CONCRETE and rebar	
						0.5'-2.4': Fill-Bedded angular GRAVEL (approx. 0.1'-0.2' diameter) in f to m sand matrix.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3		2.4': Thick black nylon sheeting beneath the bedded gravel.	2'-3': N/O, N/S PID = 0.0 ppm max.
						2.4'-5.2': Fill-Medium brown f to m SAND, tr silt, c sand, angular gravel, brick fragments, coal fragments and roots.	3'-4': N/O, N/S PID = 0.0 ppm max.
				5		Sample collected: W18STMGP-MW40A-45	4'-5': N/O, N/S PID = 0.0 ppm max.
							5'-6': N/O, N/S PID = 0.0 ppm max.
						6.0'-12.0': Fill-Medium brown v f to c SAND, some silt, ltl gravel and tr cobbles.	6'-8': N/O, N/S PID = 0.0 ppm max.
			3	7			
	1	0.0'	1				
			2				8'-10': N/O, N/S PID = 0.0 ppm max.
			1	9			
			1				
	2	0.1'	4				
			8				10'-12': N/O, N/S PID = 0.0 ppm max.
			5	11			
			1				
	3	0.1'	1				
			2			12.0'-16.0': No Recovery	
			2	13			
			1				
	4	0.0'	1				
			3				
			5				
			5	15			
			2				16'-18': N/O, N/S
	5	0.2'	4			16.0'-17.0': Did not sample this interval.	PID = 2.6 ppm max.
			5				
			3	17			
						17.0'-19.0': Fill-Medium brown SILT, v f to c SAND, ltl gravel and tr cobbles.	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: MW-40A

SHEET 2 OF 2

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7	
ADDRESS		**ELEVATION/DATUM**	
In the western sidewalk along the cobblestone road at Chelsea Piers		6.96/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-60	3.25" Hollow Stem Auger	7/26/2004	7/26/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	19'	6'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				19		E.O.B. at 19' bgs	18'-19': N/O, N/S PID = 0.4 ppm max.
				21			
				23			
				25			
			3				
			1				
			2				
			1	27			
			1				
			4				
			8				
			5	29			
			1				
			1				
			2				
			2	31			
			1				
			1				
			3				
			5	33			
			2				
			4				
			5				
			3	35			
						Well set at 17' bgs. Screen interval from 15.0' to 5.0' bgs with a 2.0' sump.	

Sand
Bentonite Chips
Concete
Well Screen

TRC

BORING No.: SB-40B

SHEET 1 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.92/NAVD/88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	7/26/2004 / 7/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	145 lbs./30"	84' / 6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
						0.0'-0.5': CONCRETE and rebar	
				1		0.5'-2.4': Fill-Bedded angular GRAVEL (approx. 0.1'-0.2' diameter) in f to m sand matrix.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3		2.4': Thick black nylon sheeting beneath the bedded gravel. 2.4'-5.2': Fill-Medium brown f to m SAND, tr silt, c sand, angular gravel, brick fragments, coal fragments and roots.	2'-3': N/O, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5		Sample collected: W18STMGP-MW40A-45	4'-5': N/O, N/S PID = 0.0 ppm max. 5'-6': N/O, N/S PID = 0.0 ppm max.
	1	0.1'			▼	6.0'-12.0': Fill-Medium brown v f to c SAND, some silt, ltl gravel and tr cobbles.	6'-8': N/O, N/S PID = 0.0 ppm max.
			8	7			
	2	0.1'	4				8'-10': N/O, N/S PID = 0.0 ppm max.
			3				
			3	9			
			3				
	3	1.6'	4				10'-12': N/O, N/S PID = 0.0 ppm max.
			12				
			8	11			
			8				
	4	1.7'	6				
			7			12.0'-16.0': No Recovery	
			7				
			11	13			
	5	1.4'	6				
			4				
			3				
			3	15			
			3			15.0'-21.0': Fill-Black SILT, v f to c SAND, some gravel and tr clayey silt.	15'-17': N/O, N/S PID = 6.0 ppm max.
	6	0.6'	3				
			4				
			4				
			6	17			17'-19': Sweet wood odor, N/S
	7	1.4'	9				PID = 0.3 ppm max.

TRC

BORING No.: SB-40B

BORING LOG

SHEET 2 OF 5

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.92/NAVD/88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	7/26/2004 / 7/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	145 lbs./30"	84' / 6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			4				
			10	19			
			3				19'-21': Sweet wood odor, N/S
	8	1.8'	3				PID = 0.4 ppm max.
			7				
			31	21			
			5			21.0'-31.0': Fill-V f to c SAND, some silt and gravel.	21'-23': Sweet wood odor, N/S
	9	0.9'	1				PID = 0.2 ppm max.
			VOID				
			1	23			
			2				23'-25': N/O, N/S
	10	0.2'	1				PID = 0.5 ppm max.
			6				
			7	25			
			2				25'-27': N/O, N/S
	11	0.1'	2				PID = 0.1 ppm max.
			1				
			1	27			
			N/A			27.0': Silt content increasing with depth.	27'-29': N/O, N/S
	12	1.2'	N/A				PID = 0.1 ppm max.
			N/A				
			N/A	29			
			5			29.0'-31.0': Chunks of slag, shell fragments, coal and ash.	29'-31': N/O, N/S
	13	0.9'	5				PID = 0.3 ppm max.
			7				
			5	31			
			5			31.0'-34.0': SM-SILT, v f to c SAND, some gravel and tr clayey silt.	31'-33': N/O, N/S
	14	1.6'	5				PID = 0.3 ppm max.
			7				
			10	33			
			4			Sample collected: W18STMGP-B40B-3335	33'-35': N/O, N/S
	15	1.8'	6				PID = 0.5 ppm max.
			5			34.0'-43.0': ML-Dk gray silty CLAY, tr sandy silt and f sand, shell fragments and muscovite.	
			12	35			
			4			Sample collected: W18STMGP-B40B-3537	35'-37': N/O, N/S
	16	1.1'	1				PID = 16.4 ppm max.

TRC

BORING No.: SB-40B

BORING LOG

SHEET 3 OF 5

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.92/NAVD/88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	7/26/2004 / 7/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	145 lbs./30"	84' / 6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			3				
			2	37			
			2				37'-39': N/O, N/S
	17	2.0'	3				PID = 2.3 ppm max.
			4				
			5	39			
			3				39'-41': N/O, N/S
	18	N/A	5				PID = 0.0 ppm max.
			6				
			7	41			
			N/A			Sample collected: W18STMGP-B40B-4143	41'-43': N/O, N/S
	19	N/A	N/A				PID = 0.0 ppm max.
			N/A			0.0'-42.0': Steel casing (4" diameter) set, grouted and allowed to set overnight before continuing to drill deeper.	
			N/A	43			
			50/3"			43.0'-47.0': SW-V f to c SAND and some silt and gravel.	43'-45': N/O, N/S
	20	2.0'					PID = 0.0 ppm max.
				45			
			N/A				45-47': N/O, N/S
	21	N/A	N/A				PID = 0.0 ppm max.
			N/A				
			N/A	47			
			22			47.0'-82.0': ML-Gray silty CLAY.	47'-49': N/O, N/S
	22	2.0'	23				PID = 0.0 ppm max.
			5				
			4				
				49		49.0'-51.0': Not sampled.	
				51			
			2			51.0'-53.0': Not recorded.	51'-53': N/O, N/S
	23	N/A	2				PID = 0.0 ppm max.
			4				
			5				
				53		53.0'-57.0': Not sampled.	

TRC

BORING No.: SB-40B

SHEET 4 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.92/NAVD/88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	7/26/2004 / 7/28/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	145 lbs./30"	84' / 6'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				55			
				57			
			3			57.0'-59.0': Not recorded.	57'-59': N/O, N/S
	24	N/A	3				PID = 0.0 ppm max.
			6				
			8				
				59		59.0'-62.0': Not Sampled.	
				61			
			2			62.0'-64.0': ML-Gray silty CLAY and shell fragments.	62'-64': N/O, N/S
	25	N/A	4	63			PID = 0.0 ppm max.
			3				
			5				
						64.0'-74.0': Not Sampled.	
				65			
				67			
				69			
				71			

TRC

BORING No.: SB-40B

SHEET 5 OF 5

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of Gas Holder #7
ADDRESS		**ELEVATION/DATUM**
In the western sidewalk along the cobblestone road at Chelsea Piers		6.92/NAVD/88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR
ADT	Sean Miller	Morgan Evans

DRILLING RIG	TYPE/SIZE BIT	START DATE	END DATE
Mobile B-61	4.25" Hollow Stem Auger/Mud Rotary	7/26/2004	7/28/2004

SAMPLER TYPE	HAMMER WEIGHT/DROP	TOTAL DEPTH (feet below ground surface (ft bgs))	WATER LEVEL (ft bgs)
2" Split Spoon	145 lbs./30"	84'	6'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				73			
			2			74.0'-76.0': ML-Gray CLAY and SILT and shell fragments.	74'-76': N/S, N/O
	26	N/A	1	75			PID = 0.0 ppm max.
			5				
			7			76.0'-80.0': Not Sampled.	
				77			
				79			
			7			80.0'-82.0': ML-Gray silty CLAY and shell fragments.	80'-82': N/S, N/O
	27	N/A	5	81			PID = 0.0 ppm max.
			4				
			7				
			5			82.0'-84.0': Refusal (Rock fragments in shoe, possibly Manhattan schist).	82'-84': N/S, N/O
	28	N/A	5	83			PID = 0.0 ppm max.
			7				
			8				
						E.O.B. at 84' bgs. (Refusal at Bedrock)	
				85			
				87			
				89			

TRC

BORING No.: SB-90

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
West 18th St MGP SCS/Con Edison	41318-0700-10000	Bayview Correctional Facility	
ADDRESS		**ELEVATION/DATUM**	
Alley of facility		7.72/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Zerba	Charles Green	Samuel Monte	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe remote unit	3' x 2" macrocore	11/4/2005	11/4/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
Macrocore		6'	N/A

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	REMARKS (PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
						0.0'-0.5': CONCRETE . 0.5'-5.0' cleared with Hand Auger.	
				1		0.5'-1.0': Lt brown f SAND , some c gravel.	0.5'-1.0': N/O, N/S, dry PID = 2.0 ppm max.
						1.0'-3.0': Brown f SAND, brick pieces. (fill)	1'-3': N/O, N/S, dry PID = 2.8 ppm max.
				3		3.0'-5.0': Brown f SAND, some f gravel, brick pieces. (fill)	3'-5': N/O, N/S, dry PID = 2.9 ppm max.
				5		5.0'-6.0': Brown f to c SAND, some clay and brick. Concrete in shoe.	5'-6': N/O, N/S, dry PID = 3.4
						Boring complete at 6.0'.	
				7			
				9			
				11			
				13			
				15			
				17			
	6	2.0'	1				

TRC

BORING No.: SB-91

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
West 18th St MGP SCS/Con Edison	41318-0700-10000	Bayview Correctional Facility	
ADDRESS		**ELEVATION/DATUM**	
Alley of facility			
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Zerba	Charles Green	Samuel Monte	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe remote unit	3' x 2" macrocore	11/4/2005	11/4/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
Macrocore		15'	8-11'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining N/O = No odors)
				1		0.0'-0.8': CONCRETE . 0.8'-5.0' cleared with Hand Auger.	
						0.8'-2.0': Lt to dk brown f to c SAND , some c gravel.	0.8'-1.0': N/O, N/S, dry PID = 1.0 ppm max.
				3		2.0'-5.0': Dk brown f to c SAND, some c gravel.	2.0'-5.0': N/O, N/S, dry PID = 3.5 ppm max.
				5			
	1	0.5'				5.0'-8.0': Dk brown f to m SAND, some clay and brick. Brick in shoe.	5.0'-8.0': N/O, N/S, dry PID = 5.8
				7			
	2	3'		9	?	8.0'-11.0': Brown f to c SAND, trace f gravel.	5.0'-8.0': Organic odor, N/S, damp/wet PID = 3.9
				11			
						11.0'-15.0': Brown f to c sand.	11.0'-15.0': N/O, N/S, damp/wet
	3	3'		13		Unable to descrete sample through water column with Remote Georobe.	PID = 0.0
				15			
				17			

TRC

BORING No.: SB-92

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE	
West 18th St MGP SCS/Con Edison	41318-0700-10000	Bayview Correctional Facility	
ADDRESS		**ELEVATION/DATUM**	
Boiler room of facility		2.02/NAVD 88	
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**	
Zerba	Charles Green	Samuel Monte	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Geoprobe remote unit	3' x 2" macrocore	11/4/2005	11/4/2005
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
Macrocore		15'	3'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
				0		0.0'-1.2': CONCRETE . 1.2'-5.0' cleared with Hand Auger.	
				1		1.2'-2.0': Brown f SAND, some f gravel.	0.8'-1.0': N/O, N/S, damp PID = 5.1 ppm max.
				3	?	3.0": Dk gray f to c SAND, some f gravel.	3.0': N/O, N/S, wet PID = 3.4 ppm max.
	1	3'		5		5.0": Dk gray f to c SAND, some f gravel.	5.0': slight odor, N/S, wet PID = 5.7 ppm max.
				7		5.0'-9.0': Dk gray clayey SILT, trace f sand.	5.0'-8.0': N/O, N/S, wet PID = 5.8
	2	3'		9			
				11		9.0'-13.0': Dk gray clayey SILT, trace f sand.	9.0'-13.0': Organic odor, N/S, wet PID = 6.1
	3	0		13		13.0'-15.0': No recovery	13.0'-15.0': N/O, N/S, wet PID = 0.0
				15			
				17			

TRC

BORING No.: SB-43A

BORING LOG

SHEET 1 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the western edge of former Gas Holder #10
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		7.96/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR
ADT	Sean Miller	Morgan Evans

DRILLING RIG	TYPE/SIZE BIT	START DATE	END DATE
Mobile B-61	3.25" Hollow Stem Auger	7/23/2004	7/23/2004

SAMPLER TYPE	HAMMER WEIGHT/DROP	TOTAL DEPTH (feet below ground surface (ft bgs))	WATER LEVEL (ft bgs)
2" Split Spoon	140 lbs./30"	24'	7'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				0		0.0'-0.6': ASPHALT	
						0.6'-1.4': Fill-GRAVEL subbase in brown f sand matrix.	1'-2': N/O, N/S
				1		1.4'-1.8': Intact COBBLESTONE.	PID = 0.0 ppm max.
						1.8'-2.0': Hard packed tan f SAND.	
						2.0'-2.8': CONCRETE.	
						2.8'-3.7': Fill-Brownish black f to c SAND, GRAVEL, chunks of brick and glass.	
				3			3'-4': N/O, N/S
						3.7'-4.6': Fill-Dk brown f to c SAND, some silt and f to m subangular gravel.	PID = 0.0 ppm max.
							4'-5': N/O, N/S
						4.6'-5.0': Fill-Lt brown f to m SAND, tr silt and c sand.	PID = 0.0 ppm max.
				5			5'-6': N/O, N/S
							PID = 0.0 ppm max.
				7	▼		
			6			7.0'-8.0': Fill-F to c SAND, some silt and concrete and brick fragments.	
	1	0.1'	1			Sample collected: W18STMGP-B43-77.5	7'-9': N/A
			1				
			4				
			1	9		9.0'-15.3': Fill-Lt brown f to c SAND, some silt, tr clayey silt, gravel and clam shells.	9'-11': N/A
	2	1.6'	1				
			1				
			2				
			1	11			11'-13': N/A
	3	1.2'	1			11.6-15.3': Black brick fragments in spoon.	
			1				
			1				
			5	13			13'-15': N/A
	4	N/A	5				
			5				
			5				
			3	15			15'-17': N/O, N/S
	5	0.3'	6				PID = 0.0 ppm max.
			3				
			4				
			13	17		17.0'-22.1': Fill-Black f to c SAND, some silt and gravel.	17'-19': N/O, N/S
	6	N/A	13				PID = 0.0 ppm max.

TRC

BORING No.: SB-43A

BORING LOG

SHEET 2 OF 2

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the western edge of former Gas Holder #10
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		7.96/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/23/2004 / 7/23/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	24' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			50/1"				
				19		19.0': Slag in spoon.	19'-21': N/O, N/S
			50/2"				
	7	N/A					PID = 0.0 ppm max.
				21		21.0': Brick fragments in spoon.	21'-23': N/O, N/S
			15				
	8	0.1'	50/3"				PID = 0.0 ppm max.
				23		22.5'-24.0': Wood timbers.	23'-24': N/O, N/S
			12			Sample collected: W18STMGP-B43-2323.5	PID = 0.0 ppm max.
	9	0.7'	50/2"				24': PID = 15.9 ppm max. on wood
						E.O.B. at 24.0' bgs (Refusal due to wood timbers)	
				25			
				27			
				29			
				31			
				33			
				35			

TRC

BORING No.: SB-43B

SHEET 1 OF 1

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the western edge of former Gas Holder #10
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		7.96/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/2/2004 / 8/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	9' / 7'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
				1			
				3			
				5			
			8			Sample collected: W18STMGP-B43-68	
	1	0.5'	36	7	▼		
			11				
			10				7'-9': PID = 48 ppm max.
			12			Sample collected: W18STMGP-B43-810	
			50/3"	9		E.O.B. at 9' bgs (Refusal due to wood)	
				11			
				13			
				15			
				17			

TRC

BORING No.: SB-44

BORING LOG

SHEET 1 OF 1

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of former Gas Holder #10 and northwest of Gas Holder #11
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		7.61/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	8/2/2004 / 8/2/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	9' / 5.8'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
						0.0'-0.3': ASPHALT	
				1		0.3'-2.0': Fill-Angular GRAVEL subbase in brownish gray f to c sand matrix and brick fragments.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3		2.0'-4.2': Fill-Lt brown f to c SAND, f angular GRAVEL, cobbles, chunks of rock and tr brick fragments.	2'-3': N/O, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5		4.2'-5.8': Fill-Gray f SAND and tr silt.	4'-5': N/O, N/S PID = 0.0 ppm max.
						Sample collected: W18STMGP-B46-4.55.5 (SB-44A)	5'-6': N/O, N/S PID = 0.0 ppm max.
						6.0'-9.0': Fill-F to c SAND, some silt and f to c angular gravel.	6'-8': MGP-related odor, N/S
	1	N/A		7		Sample collected: W18STMGP-B44-68	PID = 35.1 ppm max.
						Sample collected: W18STMGP-B44-810	8'-9': MGP-related odor, N/S PID = 1,538 ppm max.
			50/3"				
	2	N/A		9		E.O.B. at 9' bgs (Refusal)	
				11			
				13			
				15			
				17			

TRC

BORING No.: SB-45

SHEET 1 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the southern end of Gas Holder #11
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		8.53/NAVD 88

DRILLING CONTRACTOR	DRILLER	TRC INSPECTOR	
ADT	Sean Miller	Morgan Evans	
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE**	**END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004	7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))**	**WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37'	7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS	REMARKS
						f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little sl - slight	(PID, STAINING, ODORS, ETC.) N/S = No Staining N/O = No odors
						0.0'-0.3': ASPHALT	
				1		0.3'-1.0': Fill-Brownish gray m to c SAND, some silt and angular and subangular gravel and brick fragments.	0.3'-1': N/O, N/S
						1.0'-1.6': Intact section of an old asphalt road (0.25' thick).	PID = 156 ppm max. (high PID rdg due to high humidity levels)
						1.6'-2.15': Fill-Brown m to c SAND, angular and subangular GRAVEL, brick.	1.6'-2.15': N/O, N/S
				3		2.15'-3.0': ASPHALT overlying a 0.1' thick layer of tan f to m fill sand.	PID = 2.1 ppm max.
						3.0'-4.2': Lt gray CONCRETE.	
						4.2'-7.5': Fill-Brown m to c SAND, some gravel, tr silt and brick and coal fragments.	4.2': N/O, N/S
				5			PID = 0.0 ppm max.
				7		Sample collected: W18STMGP-B45-7.07.5	
			8			Sample collected: W18STMGP-B45-78	
	1	0.6'	8		▼	7.5'-13.0': Fill-Medium brown to light brown v f to c SAND, GRAVEL, tr clayey silt and brick fragments.	7.5': N/O, N/S
			7				PID = 0.0 ppm max.
			10	9			
			14				9'-11': N/O, N/S
	2	0.3'	8				PID = 0.0 ppm max.
			6				
			4	11			
			13				11'-13': N/O, N/S
	3	0.5'	7				PID = 0.0 ppm max.
			5				
			3	13			
			6			13.0'-25.0': Fill-Black f to c SAND, some gravel, brick and shell fragments.	13'-15': N/O, N/S
	4	0.6'	11				PID = 0.0 ppm max.
			7				
			2	15			
			6				15'-17': N/O, N/S
	5	0.2'	9				PID = 0.4 ppm max.
			11				
			13	17			
			1				17'-19': N/O, N/S
	6	0.3'	1				PID = 0.2 ppm max.

TRC

BORING No.: SB-45

SHEET 2 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the southern end of Gas Holder #11
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		8.53/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004 / 7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.) (N/S = No Staining, N/O = No odors)
			1				
			1				
			3	19		Tr wood fibers.	19'-21': N/O, N/S
	7	0.2'	9				PID = 0.2 ppm max.
			8				
			8				
			6	21			21'-23': N/O, N/S
	8	0.1'	9				PID = 0.0 ppm max.
			11				
			10				
			10	23		Tr wood fibers and ash cinders.	23'-25': N/O, N/S
	9	0.5'	10				PID = 0.0 ppm max.
			10				
			5				
			3	25		25.0'-29.0': ML-Very soft gray clayey SILT.	25'-27': N/O, N/S
	10	0.8'	4				PID = 3.6 ppm max.
			3				
			1				
			1	27			27'-29': N/O, N/S
	11	2.0'	1				PID = 0.0 ppm max.
			1				
			5				
			3	29		29.0'-31.0': SM-F to c SAND, some silt and ltl clayey silt.	29'-31': N/O, N/S
	12	0.8'	2				PID = 0.0 ppm max.
			1				
			1				
			5	31		31.0'-37.0': ML-Gray silty CLAY, tr shell fragments and f sand.	31'-33': N/O, N/S
	13	2.0'	3			Sample collected: W18STMGP-B45-31.532.0	PID = 0.0 ppm max.
			3				
			3				
			3	33			33'-35': N/O, N/S
	14	2.0'	3				PID = 0.0 ppm max.
			2				
			2				
			2	35			35'-37': N/O, N/S
	15	2.0'	2				PID = 0.0 ppm max.

TRC

BORING No.: SB-45

SHEET 3 OF 3

BORING LOG

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Inside the southern end of Gas Holder #11
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		8.53/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/22/2004 / 7/22/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	37' / 7.5'

WELL CONSTRUCTION	SAMPLES: NUMBER	SAMPLES: RECOVERY IN FEET	SAMPLES: BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine, m - medium, c - coarse; lt - light, dk - dark, tr - trace, ltl - little, sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining, N/O = No odors)
			2				
			2				
				37		E.O.B. at 37' bgs	
				39			
				41			
				43			
				45			
				47			
				49			
				51			
				53			

TRC

BORING No.: SB-46

BORING LOG

SHEET 1 OF 1

JOB NAME/ CLIENT	PROJECT NO.	AREA OF SITE
W18th St MGP SCS/Con Edison	41318-0700-10000	Southwest of former Gas Holder #10 and northwest of Gas Holder #11
ADDRESS		**ELEVATION/DATUM**
Along the river, south of Chelsea Piers and east of the walkway		7.70/NAVD 88
DRILLING CONTRACTOR	**DRILLER**	**TRC INSPECTOR**
ADT	Sean Miller	Morgan Evans
DRILLING RIG	**TYPE/SIZE BIT**	**START DATE** / **END DATE**
Mobile B-61	3.25" Hollow Stem Auger	7/23/2004 / 7/23/2004
SAMPLER TYPE	**HAMMER WEIGHT/DROP**	**TOTAL DEPTH (feet below ground surface (ft bgs))** / **WATER LEVEL (ft bgs)**
2" Split Spoon	140 lbs./30"	6' / 5.8'

WELL CONSTRUCTION	SAMPLES: NUMBER	RECOVERY IN FEET	BLOWS PER 6"	DEPTH	WATER	DESCRIPTION OF SOILS (f - fine m - medium c - coarse; lt - light dk - dark tr - trace ltl - little sl - slight)	REMARKS (PID, STAINING, ODORS, ETC.; N/S = No Staining N/O = No odors)
				1		0.0'-0.3': ASPHALT 0.3'-2.0': Fill-Angular GRAVEL subbase in brownish gray f to c sand matrix and brick fragments.	1'-2': N/O, N/S PID = 0.0 ppm max.
				3		2.0'-4.2': Fill-Lt brown f to c SAND, f angular GRAVEL, cobbles, chunks of rock and tr brick fragments.	2'-3': N/O, N/S PID = 0.0 ppm max. 3'-4': N/O, N/S PID = 0.0 ppm max.
				5	▼	4.2'-5.8': Fill-Gray f SAND and tr silt. Sample collected: W18STMGP-B46-4.55.5	4'-5': N/O, N/S PID = 0.0 ppm max. 5'-6': N/O, N/S PID = 0.0 ppm max.
				7		E.O.B. at 6' bgs (Refusal)	
				9			
				11			
				13			
				15			
				17			

TRC

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 1

Project No.	Client	Test Pit No.	
41318	Con Edison	TP-1	
Location		Elevation & Datum	
Verizon Building on W 18th Street		13.70 NAVD '88	
		TRC Inspector	
		Jessica Elliott	
Contractor		Date Started/Completed	Completion Status
Fenley and Nicol Environmental		4/27/2005	4/27/2005-Backfilled
Excavator		Total Depth (ftbg)	Water Level (ftbg) Obs. Stab.
Manual Excavation		4.2'	N/A
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION	REMARKS (PID/DID, ETC)
0.0'		CONCRETE and rebar (0.0'-0.3')	
1.0'		Intact red brick wall encountered along eastern wall of SB-6 and western wall of TP-1 (Western ring wall of Former Gas Holder #2). Brick wall running N-S and approximately 20" wide. excavated along eastern side of wall (interior).	rick v N/O, N/S PID = 1.4 ppm max.
2.0'		1.0'-4.2': Brown-dark brown f to c SAND, GRAVEL, COBBLES, brick fragments and large rock (schist) fragments and chunks.	N/O, N/S PID = 1.1 ppm max.
3.0'			N/O, N/S PID = 1.1 ppm max.
4.0'			N/O, N/S
		E.O.T.P. at 4.2' bgs (2.0' x 2.0')	PID=1.0 ppm max.
5.0'			

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 1

Project No.	Client	Test Pit No.	
41318	Con Edison	TP-1B	
Location		**Elevation & Datum**	
Verizon Building on W 18th Street		13.24 NAVD '88	
Contractor		**TRC Inspector**	
Fenley and Nicol Environmental		Jessica Elliott	
Excavator		**Date Started/Completed**	**Completion Status**
Manual Excavation		5/4/2005	5/4/2005-Backfilled
Sampler Type		**Total Depth (ftbg)**	**Water Level (ftbg)** Obs. Stab.
Grab		3'	N/A

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION	REMARKS (PID/DID, ETC)
0.0'		CONCRETE and rebar (0.0'-0.7') 0.7'-2.0': Fill-Brown SILT, f to c SAND, GRAVEL, some cobbles, brick and rock fragments. Sample collected: W18STMGP-TP1B-1.01.5	Gasoline-like odor, N/S PID = 667 ppm max.
1.0'		1.0': Intact red brick wall (western ring wall of Former Gas Holder #1). Brick wall running N-S and approximately 18" wide. Excavated along eastern side of wall (holder interior). excavated along eastern side of wall (interior).	
2.0'		2.0'-3.0': Brown SILT, f SAND, ltl m to c sand, gravel, brick fragments, wood timbers and rock (schist) fragments.	Gasoline-like odor, black staining on wood timbers PID = 78.2 ppm max.
3.0'		3.0': Large boulders; unable to excavate deeper. E.O.T.P. at 3' bgs (7.5' x 2.0')	Gasoline-like odor, N/S PID = 46.0 ppm max.
4.0'			

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 2

Project No.	Client	Test Pit No.	
41318	Con Edison	TP-2	
Location		Elevation & Datum	
10th Ave Lot b/w 18th and 19th St		12.35 NAVD '88	
		TRC Inspector	
		Jennifer Guido	
Contractor	Operator	Date Started/Completed	Completion Status
		9/12/2004	9/12/2004-Backfilled
ADT	Joe (ADT)	Total Depth (ftbg)	Water Level (ftbg) Obs. Stab.
Excavator		11'	N/A
Rubbertire Backhoe-CAT			
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION .	REMARKS (PID/DID, ETC)
0.0'		ASPHALT (0.0'-0.5')	
1.0'		Fill-Brownish gray f to c SAND, GRAVEL, some rock (schist) fragments and brick fragments (0.5'-6.0').	Sl petroleum odor, N/S
2.0'		Top of an intact red brick wall identified as the top of the southern ring wall for Gas Holder No. 3. encountered along the southern wall of the test pit Brick wall running E-W and bends toward the north. Brick wall continuous to bottom of test pit. An additional test pit (2' x 2') was excavated	Sl petroleum odor, N/S
3.0'		9' south of TP-2 to locate the northern ring wall of Gas Holder No. 4 presumed to be directly south of Gas Holder No. 3's southern wall. The second wall was not located.	Sl petroleum odor, N/S
4.0'			Sl petroleum odor, N/S
5.0'			Sl petroleum odor, N/S
6.0'		Increase in sand content and decrease in rock fragments (6.0'-10.0').	Sl petroleum odor, N/S

TRC Environmental Corp.

TEST PIT LOG

Project No.	Client	Test Pit No.	
41318	Con Edison	TP-2	
Location		Elevation & Datum	
10th Ave Lot b/w 18th and 19th St		12.35 NAVD '88	
		TRC Inspector	
		Jennifer Guido	
Contractor	Operator	Date Started/Completed	Completion Status
		9/12/2004	9/12/2004-Backfilled
ADT	Joe (ADT)	Total Depth (ftbg)	Water Level (ftbg)
Excavator			Obs. Stab.
		11'	N/A
Rubbertire Backhoe-CAT			
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION .	REMARKS (PID/DID, ETC)
7.0'			Sl petroleum odor, N/S
			Sl petroleum odor, N/S
8.0'			Sl petroleum odor, N/S
9.0'			Sl petroleum odor, N/S
			Sl petroleum odor, N/S
10.0'		Brownish gray f to c SAND, some gravel, ltl silt, tr rock (schist) fragments and brick fragments. Moist.	
		Sample collected: W18STMGP-TP2-1011	Sl petroleum odor, N/S
11.0'		E.O.TP. at 11' bgs. (10' x 2')	
12.0'			

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 1

Project No.	**Client**	**Test Pit No.**	
41318	**Con Edison**	**TP-3**	
Location		**Elevation & Datum**	
		9.79 NAVD '88	
W 18th St - DEA Parking Lot		**TRC Inspector**	
		Bill Jablonski	
Contractor	**Operator**	**Date Started/Completed**	**Completion Status**
		5/1/2004	**5/1/2004-Backfilled**
ADT/CAP	**Adrian Ogero**	**Total Depth (ftbg)**	**Water Level (ftbg)**
Excavator			**Obs. Stab.**
		7.7'	**N/A**
Rubbertire Backhoe-CAT			
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION	REMARKS (PID/DID, ETC)
0.0'		ASPHALT (0.0'-0.3')	
0.3'		Fill-Blk m to c SAND and some tan angular gravel (0.3'-2.0').	N/O, N/S PID=0.0 ppm max. Tar-like residue on east side of TP-3 (1.9'-3.75')
2.0'		Fill-Brown m SAND with some angular gravel and brick fragments and whole bricks (2.0'-2.3').	N/O, N/S PID=3.2 ppm max.
2.3'		Fill-Brown m SAND. Located structure resembling a fragile brick wall (2.3'-3.8').	N/O, N/S PID=0.0 ppm max.
3.8'		Fill-Lt brown to brown m to c SAND and some angular gravel (3.8'-7.7').	N/O, N/S PID=0.0 ppm max.
5.0'			N/O, N/S PID=0.0 ppm max.
6.0'			N/O, N/S PID=0.0 ppm max.
7.5'		Sample collected: W18STMGP-TP3-7.5	N/O, N/S PID=0.0 ppm max.

E.O.TP. at 7.7' bgs. (19.6' x 3.0')

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 1

Project No.	Client	Test Pit No.	
41318	Con Edison	TP-4	
Location		Elevation & Datum	
W 18th St - W 19th St Parking Lot		6.70 NAVD '88	
		TRC Inspector	
		Geraldine Tan	
Contractor	Operator	Date Started/Completed	Completion Status
		5/8/2004	5/8/2004--Backfilled
ADT/CAP	Adrian Ogero	Total Depth (ftbg)	Water Level (ftbg) Obs. Stab.
Excavator		6'	6'
Rubbertire Backhoe-CAT			
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION	REMARKS (PID/DID, ETC)
0.0'		ASPHALT (0.0'-0.5')	N/O, N/S
0.5'-1.0'		GRAVEL-1" diameter	PID (headspace)=6.1 ppm max.
1.0'-2.0'		Fill-Dk brown f to c SAND, SILT, some f to c gravel, brick fragments and tr rocks.	N/O, N/S PID (headspace)=12.6 ppm max.
		Center of trench-2' wide concrete structure 8' from eastern edge of trench (2' bgs). West end of trench-2" diameter metal pipe, tile, brick and tr wood.	N/O, N/S in pipe PID (headspace)=0.0 ppm max. in pipe
2.0'-3.0'		Fill-Dk brown f to c SAND, SILT, some f to c gravel and 9" diameter cobble.	N/O, N/S PID (headspace)=8.6 ppm max.
3.0'-4.0'		East end of trench: Fill-Reddish f to c SAND and SILT. West end of trench: Fill-Dk brown f to c SAND, SILT, brick fragments and cobble. Intact brick wall along western edge of trench (3' bgs).	N/O, N/S PID (headspace)=13.8 ppm max.
4.0'-5.0'		East end of trench: Fill-Reddish f to c SAND, SILT, some clay, wet tr gravel and cobble. West end of trench: SAA, brick wall intact at depth along western edge of trench.	N/O, N/S PID (headspace)=3.6 ppm max.
5.0'-6.0'		East end of trench: SAA, 1' diameter cobble. Sample collected: W18STMGP-TP4-56/ Time: 1215	N/O, N/S PID (headspace)=12.0 ppm max.
6.0'	▼		

E.O.TP. at 5' bgs. in western end and 6' bgs.in eastern end (18.0' x 3.0')

TRC Environmental Corp.

TEST PIT LOG

Sheet 1 Of 1

Project No.	Client	Test Pit No.	
		TP-6	
41318	Con Edison	Elevation & Datum	
		9.05 NAVD '88	
Location		TRC Inspector	
W 18th St - DEA Parking Lot		Bill Jablonski	
Contractor	Operator	Date Started/Completed	Completion Status
		5/2/2004	5/2/2004--Backfilled
ADT/CAP	Adrian Ogero	Total Depth (ftbg)	Water Level (ftbg) Obs. Stab.
Excavator		9.9'	9.9'
Rubbertire Backhoe-CAT			
Sampler Type			
Grab			

DEPTH (FT BGS)	WATER	SAMPLE DESCRIPTION .	REMARKS (PID/DID, ETC)
0.0'		ASPHALT (0.0'-0.25')	
0.25'		Fill-Black m to c SAND, some silt, brick fragments and concrete debris (0.25'-0.83').	N/O, N/S PID=0.0 ppm max.
0.83'		Fill-Black m to c SAND, SILT with brown and orange m to c sand and silt (0.83'-3.0'). Large ashlar block encountered at 2.0'-2.5'.	N/O, N/S PID=0.0 ppm max.
2.33'		Intact red brick wall encountered along northern wall of test pit. Brick wall running E-W and excavated along southern side of wall.	N/O, N/S PID=0.0 ppm max.
3.0'		Ashlar block wall encountered in southern end of test pit.	N/O, N/S PID=0.0 ppm max.
4.1'		Fill-Brown and tan m to c SAND, some angular gravel, brick fragments and blocks (3.0'-6.7'). Concrete/mortar mix at 4.1'.	N/O, N/S PID=0.0 ppm max.
5.0'		Second brick wall encountered at 5.0' bgs. Wall is 12' south of northern wall of test pit and aligned parallel to the first brick wall.	N/O, N/S PID=0.0 ppm max.
6.7'		Fill-Brown m to c SAND, some silt, tr angular gravel and tr rounded gravel.	N/O, N/S PID=0.0 ppm max.
9.9'	▼	Sample collected: W18STMGP-TP6-9.5 SAA (fill material) (4.1'-9.9'). Groundwater encountered at 9.9'.	N/O, N/S PID=4.2 ppm max.

E.O.TP. at 9.9' bgs. (16.0' x 3.25')

Data Assessment Narrative

1.0 Introduction

TRC Quality Assurance (QA) staff reviewed data between February 8 and March 18, 2005. A total of sixteen (16) sample delivery groups (SDGs) were reviewed that include ninety-one (91) field samples, one (1) equipment rinsate blank, and one (1) field duplicate sample. Chemtech in Mountainside, New Jersey generated the analytical data. Table 1 presents a listing of these samples, the dates and times they were collected, analytical methods used to generate data, and associated laboratory identifiers.

2.0 Review Criteria

The data review criteria used for this assessment are the values given in the following United States Environmental Protection Agency, Region II documents:

- Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999, *Validating Volatile Organic Compounds by SW-846 Method 8260B*
- SOP Number HW-22, Revision 2, June 2001, *Validating Semivolatile Organic Compounds by SW-846 Method 8270*
- SOP Number 23B, Revision 1.0, May 2002, *Validating PCB Compounds by SW-846 Method 8082*
- SOP Number HW-2, Revision 11, January 1992, *Evaluation of Metals Data for the CLP Program*

Items reviewed during the assessment process for volatile organic, semivolatile organic, polychlorinated biphenyl (PCB), pesticide, and herbicide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Recoveries and Retention Times
- Laboratory Control Sample (LCS) Results
- Sample Quantitation and Reported Quantitation Limits
- Target Compound Identification

Items reviewed during the assessment process for metals data and cyanide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation

- Initial and Continuing Calibrations
- Detection Limit Standards
- Blanks
- Interference Check Samples
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Duplicate Results
- Serial Dilutions

Qualified sample data are listed Table 2.

3.0 Data Review/Validation Results

Data Completeness

All requirements for full raw data reporting are met for the reported data packages. That is, the data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables, as requested on chain-of-custody forms.

Preservation and Holding Times

Volatile Organic Analytes

Volatile GC/MS analyses of several soil samples occurred more than 10 days after sample collection. The affected samples are presented in Table 3. Most analyses occurred within the method-defined holding time of 14 days but outside the United States Environmental Protection Agency (USEPA) Region II holding time (defined in SOP No. HW-24) of 10 days. Therefore, all positive results in the samples listed in Table 3 are flagged with a "J" qualifier and all non-detected results are flagged with a "UJ" qualifier, as noted in Table 2.

Sample W18STMGP-SB317.17.7 was analyzed 15 days after collection. That is, the analysis occurred outside both the method-defined and USEPA Region II holding times. The extended time between collection and analysis may indicate a low bias for all target analytes. Positive concentrations of toluene, tetrachloroethene, ethylbenzene, m/p-xylenes, and o-xylenes are flagged with "J" qualifiers and all remaining non-detected analytes are flagged with "UJ" qualifiers.

Semivolatile Organic Analytes

Sample W18STMGP-SB317.17.7 was extracted for semivolatile organics analysis 16 days after collection. The method-defined holding time for extraction is 14 days. The extended time between collection and analysis may indicate a low bias for all target analytes. Positive concentrations of naphthalene, 2-methylnaphthalene, acenaphthene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene are

flagged with “J” qualifiers and all remaining non-detected analytes are flagged with “UJ” qualifiers.

Sample W18STMGP-SB136.06.5 was also extracted for semivolatile organics analysis 16 days after collection. The method-defined holding time for extraction is 14 days. The extended time between collection and analysis may indicate a low bias for all target analytes. The positive concentration of bis(2-ethylhexyl)phthalate is flagged with a “J” qualifier and all remaining non-detected analytes are flagged with “UJ” qualifiers.

Metals

All criteria are met.

Cyanide

The holding time for cyanide distillation is 14 days. Distillation was performed for samples W18STMGP-SB44-0810 and W18STMGP-SB44-6.0-8.0 a minimum of 17 days past sample collection. Per USEPA Region II guidelines, cyanide results in the listed samples are flagged with “R” qualifiers.

PCBs

Sample W18STMGP-WCOMP-8-10-04 was extracted for PCB analysis 8 days after collection. The holding time for extraction is 7 days. Since PCBs were not detected, all results for PCBs in sample W18STMGP-WCOMP-8-10-04 are flagged with “UJ” qualifiers.

Pesticides

All criteria are met.

Herbicides

All criteria are met.

GC/MS Tunes

All USEPA Region II criteria are met.

Initial and Continuing Calibrations

Volatile Organic Analytes

The percent relative standard deviation (%RSD) values for several compounds are greater than 15% in the initial calibration analyzed on May 3, 2004 between 18:54 and 20:51. Detected positive results for toluene in samples W18STMGP-B52-2729, W18STMGP-COMP-5-1-04, W18STMGP-B19-1719, W18STMGP-B48-1516, and W18STMGP-B48-1921DL2 are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on May 12, 2004 between 20:33 and 22:31. Detected positive results for acetone in

samples W18STMGP-B20-1920, W18STMGP-B47-1719, W18STMGP-B48-79, W18STMGP-B48-1921 are flagged with “J” qualifiers.

The percent difference (%D) value for isopropyl benzene in the continuing calibration analyzed on May 15, 2004 at 15:06 is greater than 90%. Per USEPA Region II requirements, reported results for isopropylbenzene in associated samples W18STMGP-B20-1315, W18STMGP-B47-1719DL, and W18STMGP-B48-1921DL are flagged with “R” qualifiers.

Relative response factors (RRFs) for chloroethane are less than 0.05 in the initial calibration analyzed on June 1, 2004 between 13:15 and 15:50 as well as the continuing calibration analyzed on June 2, 2004 at 11:09. Therefore, reported results for chloroethane in associated samples W18STMGP-B32-1113, W18STMGP-B32-2123, and W18STMGP-B32-2123RE are flagged with “R” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on July 10, 2004 between 14:29 and 16:10. The %D values for several compounds are also greater than 20% in the associated continuing calibration analyzed on July 12, 2004 at 13:11. Detected positive results for methylene chloride in samples W18STMGP-MW40A-45, W18STMGP-B46-4.55.5, W18STMGP-B45-78, W18STMGP-B26-6.57, W18STMGP-B07-67, W18STMGP-B08-45, and W18STMGP-B27-5.05.5 are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on July 25, 2004 between 17:35 and 19:13. Detected positive results for carbon disulfide, methylene chloride, and cyclohexane in samples W18STMGP-SB39-7.58.0, W18STMGP-SB39-23.0, W18STMGP-SB18-7.37.9, W18STMGP-SB18-28.529.0, W18STMGP-SB18-42.543.0, W18STMGP-SB45-7.07.5, W18STMGPSB45-31.532.0, W18STMGP-SB136.06.5, W18STMGP-SB27-5.96.3, W18STMGP-SB27.40.941.3, W18STMGP-SB43-7.07.5, and W18STMGP-SB43-23.023.5 are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on July 26, 2004 between 03:59 and 05:39. The %D values for several compounds are also greater than 20% in the associated continuing calibration analyzed on July 29, 2004 at 18:03. Detected positive results for acetone and carbon disulfide in samples W18STMGP-SB26-3537 and W18STMGP-SB40B-3335 are flagged with “J” qualifiers.

The %D value for tetrachloroethene in the continuing calibration analyzed on July 28, 2004 at 15:15 is greater than 20%. Positive results for tetrachloroethene in associated samples W18STMGP-SB43-6-8 and W18STMGP-SB43-8-10 are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 13, 2004 between 20:12 and 21:53. The detected positive result for acetone in sample W18STMGP-SB34-28.529 is flagged with a “J” qualifier.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 14, 2004 between 12:56 and 14:34. Detected positive results for acetone and methylcyclohexane in sample W18STMGP-SB44-0810 and W18STMGP-B15-56DL are flagged with "J" qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 25, 2004 between 12:29 and 14:11. The detected positive result for methylene chloride, acetone, and carbon disulfide in samples W18STMGP-B15-79, W18STMGP-B15-1113, and W18STMGP-B15-2325 are flagged with "J" qualifiers.

The %D values for acetone, carbon disulfide, cyclohexane, methylcyclohexane, and isopropylbenzene in the continuing calibration analyzed on August 28, 2004 at 18:31 are greater than 20%. Positive results for these compounds in associated samples W18STMGP-B15-56, W18STMGP-B15-79, W18STMGP-B15-1113, and W18STMGP-B15-1719 are flagged with "J" qualifiers.

The %D value for acetone in the continuing calibration analyzed on August 30, 2004 at 19:07 is greater than 90%. The result for acetone in associated sample W18STMGP-B15-2325 is flagged with an "R" qualifier. The %D value for carbon disulfide is greater than 20% in the listed continuing calibration. The reported concentration of carbon disulfide is flagged with a "J" qualifier in sample W18STMGP-B15-2325.

The %D value for methylcyclohexane is greater than 20% in the continuing calibration analyzed on August 31, 2004 at 00:11. The reported concentration of methylcyclohexane in sample W18STMGP-B15-56DL is flagged with a "J" qualifier.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 1, 2004 between 21:28 and 23:02. The detected positive results for acetone and methylene chloride in samples W18STMGP-B24-8284, W18ST-SB12-5-7, W18ST-SB12-7-9, W18ST-SB12-15-17, W18ST-SB9-4, W18ST-TP2-10-11, W18ST-SB12-25-27 are flagged with "J" qualifiers.

The %D values for acetone and methyl tert-butyl ether are greater than 20% in the continuing calibration analyzed on September 16, 2004 at 23:43. Reported positive concentrations of acetone and methyl tert-butyl ether in samples W18ST-SB12-7-9, W18ST-SB12-15-17, W18ST-SB9-4, W18ST-TP2-10-11, and W18ST-SB12-25-27 are flagged with "J" qualifiers.

Semivolatile Organic Analytes

%D values for indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene are greater than 20% in the continuing calibration analyzed on May 14, 2004 at 06:34. Reported positive concentrations

of indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene in sample W18STMGP-B48-1516DL are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on July 9, 2004 between 20:01 and 22:35. The detected positive results for 3+4-methylphenols, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene in samples W18STMGP-B45-78, W18STMGP-B27-5.05.5, and W18STMGP-B08-45 are flagged with “J” qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on July 27, 2004 between 16:33 and 20:40. Detected positive results for benzaldehyde and benzo(b)fluoranthene in samples W18STMGP-SB43-6-8, W18STMGP-SB43-8-10, W18STMGP-SB34-20.521, W18STMGP-SB34-20.521RE, W18STMGP-SB44-0810, W18STMGP-SB44-0810RE, W18STMGP-SB44-6.0-8.0, and W18STMGP-SB44-6.0-8.0RE are flagged with “J” qualifiers.

%D values for 4-nitrophenol, carbazole, and indeno(1,2,3-cd)pyrene are greater than 20% in the continuing calibration analyzed on July 29, 2004 at 01:40. Reported positive concentrations for these compounds in samples W18STMGP-SB39-23.0, W18STMGP-SB18-7.37.9, W18STMGP-SB18-28.529.0, W18STMGP-SB45-31.532.0, W18STMGP-SB27-5.96.3, W18STMGP-SB43-7.07.5, and W18STMGP-SB43-23.023.5 are flagged with “J” qualifiers.

The %D value for phenanthrene is greater than 20% in the continuing calibration analyzed on July 30, 2004 at 04:09. The reported positive concentration for phenanthrene in sample W18STMGP-SB18-42.543.0 is flagged with a “J” qualifier.

%D values for fluorene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene are greater than 20% in the continuing calibration analyzed on July 31, 2004 at 03:22. Reported positive concentrations for these compounds in sample W18STMGP-SB27.44.545 are flagged with “J” qualifiers.

%D values for carbazole and benzo(b)fluoranthene are greater than 20% in the continuing calibration analyzed on July 31, 2004 at 17:55. Reported positive concentrations for these compounds in sample W18STMGP-SB27.44.545DL are flagged with “J” qualifiers.

%D values for phenanthrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene are greater than 20% in the continuing calibration analyzed on August 8, 2004 at 02:24. Reported positive concentrations for these compounds in samples W18STMGP-SB26-3133, W18STMGP-SB26-3537, W18STMGP-SB40B-3537, W18STMGP-SB40B-3537DL, and W18STMGP-SB40B-4143 are flagged with “J” qualifiers.

The RRF for caprolactam in the continuing calibration analyzed on August 8, 2004 at 12:05 is less than 0.050. Additionally, the %D value for benzo(b)fluoranthene in this continuing calibration analysis is greater than 15%. Per USEPA Region II instruction, non-detected results for caprolactam in associated samples W18STMGP-SB43-6-8RE and W18STMGP-SB43-8-10RE are flagged with "R" qualifiers. Positive results for benzo(b)fluoranthene in these samples are flagged with "J" qualifiers.

The %D for 4-nitrophenol is greater than 90% in the continuing calibration analyzed on August 8, 2004 at 16:51. Per USEPA Region II requirements, the non-detected result for 4-nitrophenol in associated sample W18STMGP-B24-8284 is flagged with an "R" qualifier.

The %D value for bis(2-ethylhexyl)phthalate is greater than 20% in the continuing calibration analyzed on August 14, 2004 at 19:53. The reported positive concentration of bis(2-ethylhexyl)phthalate in sample W18STMGP-SB44-6.0-8.0 is flagged with a "J" qualifier.

%D values for indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene are greater than 20% in the continuing calibration analyzed on August 15, 2004 at 13:02. Reported positive concentrations for these compounds in sample W18STMGP-SB34-20.521 are flagged with "J" qualifiers.

The %D for 4-nitrophenol is greater than 90% in the continuing calibration analyzed on August 16, 2004. Per USEPA Region II requirements, the non-detected result for 4-nitrophenol in associated sample W18STMGP-SB44-6.0-8.0RE is flagged with an "R" qualifier.

The %D value for benzo(g,h,i)perylene is greater than 20% in the continuing calibration analyzed on August 18, 2004 at 04:48. The reported positive concentration of benzo(g,h,i)perylene in sample W18STMGP-SB34-20.521RE is flagged with a "J" qualifier.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 25, 2004 between 10:18 and 11:53. Detected positive results for benzo(k)fluoranthene in samples W18STMGP-B15-79, W18STMGP-B15-1719, W18STMGP-B15-2325, W18STMGP-B15-1719DL, W18STMGP-B15-2325DL, W18STMGP-B15-2325DL2, W18ST-SB14-5, W18ST-SB11-6, W18ST-SB11-6DL, W18ST-SB10-5, and W18ST-SB10-5DL are flagged with "J" qualifiers.

The %D value for phenanthrene is greater than 20% in the continuing calibration analyzed on August 28, 2004 at 05:16. Reported positive concentrations for phenanthrene in samples W18STMGP-B15-79, W18STMGP-B15-1719, and W18STMGP-B15-2325 are flagged with "J" qualifiers.

The %D value for phenanthrene is greater than 20% in the continuing calibration analyzed on August 28, 2004 at 19:18. Reported positive concentrations of phenanthrene in samples W18STMGP-B15-56 and W18STMGP-B15-1113 are flagged with "J" qualifiers.

The %D value for phenanthrene is greater than 20% in the continuing calibration analyzed on August 31, 2004 at 20:07. Reported positive concentrations for phenanthrene in samples W18STMGP-B15-1719DL, W18STMGP-B15-1719DL2, W18STMGP-B15-2325DL, and W18STMGP-B15-2325DL2 are flagged with "J" qualifiers.

The %RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 5, 2004 between 16:56 and 20:01. The detected positive result for bis(2-ethylhexyl)phthalate in sample W18STMGP-B24-8284 is flagged with a "J" qualifier.

The %D for 4-nitrophenol is greater than 90% in the continuing calibration analyzed on September 16, 2004. Per USEPA Region II requirements, the non-detected result for 4-nitrophenol in associated sample W18ST-SB12-7-9 is flagged with an "R" qualifier. The %RSD for indeno(1,2,3-cd)pyrene in the associated initial calibration (analyzed on September 16, 2004 between 17:31 and 20:30) is greater than 15%. The reported positive concentration of indeno(1,2,3-cd)pyrene in sample W18ST-SB12-7-9 is flagged with a "J" qualifier.

Metals

All criteria are met.

Cyanide

All criteria are met.

PCBs

Response of the calibration verification analysis performed immediately following analyses of the three field samples reported in SDG S3499 is below acceptance criteria. This result could indicate a low bias in results for these three samples. Since PCBs were not detected, reported results in samples W18STMGP-B07-67, W18STMGP-MW7A-67, and W18STMGP-B08-45 are flagged with "UJ" qualifiers.

Pesticides

All criteria are met.

Herbicides

All criteria are met.

Detection Limit Standards

Metals

Recoveries of chromium and lead are high and the recovery of mercury is low in the contract required detection limit (CRDL) standard associated with SDG S2769. Reported concentrations of these analytes in sample W18STMGP-B32-1113 are flagged with "J" qualifiers.

Recovery of selenium is high and recovery of thallium is low in a CDRL standard associated with SDG S3499. Positive concentrations of selenium and thallium are flagged with "J" qualifiers in associated samples W18STMGP-MW40A-45, W18STMGP-B46-4.55.5, W18STMGP-B45-78, W18STMGP-B26-6.57, W18STMGP-B07-67, W18STMGP-MW7A-67, W18STMGP-B08-45, and W18STMGP-B27-5.05.5.

Recoveries of lead and mercury are high in a CRDL standard associated with SDG S3901. Positive concentrations of lead and mercury in samples W18STMGP-SB43-6-8 and W18STMGP-SB43-8-10 are flagged with "J" qualifiers.

The recovery of mercury in the CRDL standard associated with TCLP results reported for SDG S4050 is low. The reported concentration of TCLP mercury in associated sample W18STMGP-COMP-8-9-04 is flagged with a "J" qualifier.

Recovery of mercury in the CRDL standard associated with SDG S4076 is high. The reported concentrations of mercury in associated samples W18STMGP-SB34-20.521, W18STMGP-SB34-28.529, W18STMGP-SB44-0810, and W18STMGP-SB44-6.0-8.0 are flagged with "J" qualifiers.

Recovery of lead in the CRDL standard associated with SDG S4077 is low. The detected concentration of TCLP lead in sample W18STMGP-COMP-8-10-04 is flagged with a "J" qualifier and the non-detected result for TCLP lead in sample W18STMGP-WCOMP-8-10-04 is flagged with a "UJ" qualifier.

Recovery of lead in the CRDL standard associated with SDG S4099 is low. The non-detected results for TCLP lead in associated samples W18STMGP-COMP-8-11-04 and W18STMGP-WCOMP-8-11-04 are flagged with "UJ" qualifiers.

Recovery of lead in the CRDL standard associated with SDG S4126 is low. The detected concentration of TCLP lead in sample W18STMGP-WCOMP-081204 is flagged with a "J" qualifier and the non-detected result for TCLP lead in sample W18STMGP-COMP-081204 is flagged with a "UJ" qualifier.

Recovery of lead in the CRDL standard associated with SDG S4147 is low. The detected concentration of TCLP lead in sample W18STMGP-COMP-072104 is flagged with a "J"

qualifier. Non-detected results for TCLP lead in samples W18STMGP-WCOMP-072104, W18STMGP-COMP-072604, and W18STMGP-COMP-072804 are flagged with "UJ" qualifiers.

Recovery of lead in a CRDL standard associated with SDG S4251 is low. The detected concentration of lead in associated sample W18STMGP-B15-45 is flagged with a "J" qualifier.

Recovery of mercury in the CRDL standard associated with SDG S4251 is low. Reported results for mercury in associated samples W18STMGP-B15-45, W18STMGP-B15-56, W18STMGP-B15-79, W18STMGP-B15-1113, W18STMGP-B15-1719, and W18STMGP-B15-2325 are flagged with "J" qualifiers.

Recovery of lead in the CRDL standard associated with SDG S4506 is low. Non-detected results for TCLP lead in associated samples W18STMGP-WCOMP-83004 and W18STMGP-WCOMP-83104 are flagged with "UJ" qualifiers.

Recovery of arsenic in a CRDL standard associated with SDG 4648 is high. Positive results in samples W18ST-SB12-5-7, W18ST-SB12-7-9, W18ST-SB12-15-17, W18ST-SB14-5, W18ST-SB11-6, W18ST-SB10-5, W18ST-SB9-4, W18ST-TP2-10-11, W18ST-SB12-25-27, and W18STMGP-SB12-4951 are flagged with "J" qualifiers.

Blanks

Equipment Rinsate Blank

Volatile organic compounds were not detected in the equipment rinsate blank identified as W18STMGP-RB-02 indicating adequate sample collection equipment decontamination procedures were used.

Method Blanks - Volatile Organic Analytes

Methylene chloride was detected in the method blank identified as VBLK01 in SDG S3499. This result indicates that reported concentrations of methylene chloride in associated samples include measurement contributions from laboratory sources of contamination. Reported concentrations of methylene chloride in samples W18STMGP-MW40A-45, W18STMGP-B46-4.55.5, W18STMGP-B45-78, W18STMGP-B26-6.57, W18STMGP-B07-67, W18STMGP-B08-45, and W18STMGP-B27-5.05.5 are flagged with "J" qualifiers.

Methylene chloride was detected in the method blank identified as VBLK01 in SDG S3499. This result indicates that reported concentrations of methylene chloride in associated samples include measurement contributions from laboratory sources of contamination. Reported concentrations of methylene chloride in samples W18STMGP-MW40A-45, W18STMGP-B46-4.55.5, W18STMGP-B45-78, W18STMGP-B26-6.57, W18STMGP-B07-67, W18STMGP-B08-45, and W18STMGP-B27-5.05.5 are flagged with "J" qualifiers.

Methylene chloride was detected in the method blank identified as VBLK02 in SDG S3499. This result indicates that reported concentrations of methylene chloride in associated samples include measurement contributions from laboratory sources of contamination. Reported concentrations of methylene chloride in samples W18STMGP-MW7A-67 and W18STMGP-B27-5.05.5 are flagged with "J" qualifiers.

Method Blanks - Semivolatile Organic Analytes

All criteria are met.

Metals

Lead was detected in the extraction batch associated with TCLP metals analyses in SDG S4077. This result may indicate measurement contributions from laboratory sources of contamination in associated samples. The reported positive concentration of TCLP lead in W18STMGP-COMP-8-10-04 is flagged with a "J" qualifier.

Cyanide

All criteria are met.

PCBs

All criteria are met.

Pesticides

All criteria are met.

Herbicides

All criteria are met.

Interference Check Samples

All criteria are met.

Surrogate Recoveries

Volatile Organic Analytes

Recovery of surrogate compound bromofluorobenzene is below USEPA Region II control limits in sample W18STMGP-B32-2123RE. This recovery may indicate a low bias for target analytes. The positive result for acetone is flagged with a "J" qualifier and non-detect results for all other target analytes are flagged with "UJ" qualifiers in this sample.

Recoveries of surrogate compound dibromofluoromethane are below USEPA Region II control limits in sample W18STMGP-B27-5.0.5 and W18STMGP-B27-5.0.5RE. These recoveries may indicate a low bias for target analytes. The positive results for acetone, methylene chloride, and tetrachloroethene are flagged with "J" qualifiers and non-detect results for all other target analytes are flagged with "UJ" qualifiers in both samples.

Recoveries of surrogates dibromofluorobenzene, toluene-d_8, and 4-bromofluorobenzene are greater than control limits in sample W18STMGP-B15-56. The reported positive concentration of methylcyclohexane in this sample is flagged with a "J" qualifier.

Recovery of surrogate 4-bromofluorobenzene is greater than control limits in sample W18STMGP-B15-56DL. The reported positive concentration of methylcyclohexane in this sample is flagged with a "J" qualifier.

Recoveries of surrogates 1,2-dichloroethane-d_4 and toluene-d_8 are greater than USEPA Region II limits in sample W18STMGP-B15-1719. Positive results for cyclohexane, cis-1,2-dichloroethene, methylcyclohexane, benzene, toluene, chlorobenzene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene are flagged with "J" qualifiers.

Recovery of dibromofluoromethane is below control limits in sample W18ST-SB12-7-9. Positive results for acetone, carbon disulfide, toluene, m/p-xylenes, and o-xylene are flagged with "J" qualifiers and the remaining non-detected results are flagged with "UJ" qualifiers. The same low surrogate recovery is exhibited in the re-analysis of this sample; therefore, equivalent qualification of sample results (although only positive results for carbon disulfide are reported for this sample) is made for the re-analysis.

Semivolatile Organic Analytes

Recoveries of surrogates nitrobenzene-d_5 and terphenyl-d_{14} are greater than USEPA Region II limits in sample W18STMGP-B15-1719. Positive results for naphthalene, 2-methylnaphthylene, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, carbazole, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "J" qualifiers.

Recoveries of surrogates 2-fluorophenol and phenol-d_5 are greater than control limits in the TCLP analysis of sample W18STMGP-WCOMP-83104. Reported positive concentrations of 2-methylphenols and 3+4-methylphenols in this sample are flagged with "J" qualifiers.

Recoveries of 2-fluorophenol and phenol-d_5 are less than control limits in sample W18ST-SB10-5DL. None of the acid extractable compounds were detected in this sample. Therefore, all acid extractable results are flagged with "UJ" qualifiers.

PCBs

All criteria are met.

Pesticides

All criteria are met.

Herbicides

All criteria are met.

Matrix Spike/Matrix Spike Duplicates

Volatile Organic Analytes

Recoveries of benzene fall below laboratory-defined limits in MS/MSD analyses of sample W18STMGP-B52-1113. Per USEPA Region II guidelines, the reported concentration of benzene in the un-spiked analysis of this sample may be biased low and is flagged with a "J" qualifier.

Recoveries of 1,1-dichloroethene, benzene, and toluene are less than laboratory-defined limits in MS/MSD analyses of sample W18STMGP-B52-2729. Reported concentrations of these compounds in the un-spiked sample may be biased low and are, therefore, flagged with "J" and "UJ" qualifiers.

Semivolatile Organic Analytes

Recoveries of hexachloroethane, 2,4-dimethylphenol, 4-chloroaniline, 4-nitrophenol, 2,4-dinitrotoluene, and indeno(1,2,3-cd)pyrene are above laboratory-defined limits in MS/MSD analyses of sample W18STMGP-B52-2729. Additionally, recoveries of hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol are reported as zero percent in these MS/MSD analyses. Recovery of benzo(g,h,i)perylene is greater than limits in the MS analysis and less than limits in the MSD analysis. Data are not flagged for hexachloroethane, 2,4-dimethylphenol, 4-chloroaniline, 4-nitrophenol, 2,4-dinitrotoluene, and indeno(1,2,3-cd)pyrene since the bias exhibited in the MS/MSD is high and these analytes were not detected in the un-spiked analysis of W18STMGP-B52-2729. Non-detected results for hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol are flagged with "UJ" qualifiers in the un-spiked analysis of sample W18STMGP-B52-2729. The positive result for benzo(g,h,i)perylene in W18STMGP-B52-2729 is flagged with a "J" qualifier. The biases exhibited in these MS/MSD analyses may affect samples with a similar matrix and/or collected in close proximity to sample W18STMGP-B52-2729.

Recoveries of hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene are less than laboratory-specified limits in MS/MSD analyses of sample W18STMGP-SB39-7.5-8.0. Recoveries of benzo(a)anthracene and benzo(b)fluoranthene are greater than control limits in these samples. Non-detected results for hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and indeno(1,2,3-cd)pyrene are flagged with "UJ" qualifiers in sample W18STMGP-SB39-7.58.0. Positive concentrations of benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and benzo(g,h,i)perylene are flagged with "J" flags in this

sample. The biases exhibited in these MS/MSD analyses may affect samples with a similar matrix and/or collected in close proximity to sample W18STMGP-SB39-7.58.0.

Recoveries of hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and indeno(1,2,3-cd)pyrene are less than laboratory-defined limits in MS/MSD analyses of sample W18STMGP-SB34-20.521. The detected result for indeno(1,2,3-cd)pyrene is flagged with a "J" qualifier and non-detected results for hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol are flagged with "UJ" qualifiers in the un-spiked analysis of sample W18STMGP-SB34-20.521. The biases exhibited in these MS/MSD analyses may affect samples with a similar matrix and/or collected in close proximity to sample W18STMGP-SB34-20.521.

Recoveries of 2,4-dimethylphenol, 4-nitrophenol, and 2,4-dinitrotoluene are greater than control limits and the recovery of hexachlorocyclopentadiene is less than laboratory-defined acceptance criteria in MS/MSD analyses of sample W18ST-SB14-5. Results for 2,4-dimethylphenol, 4-nitrophenol, and 2,4-dinitrotoluene are not flagged since the bias in the MS/MSD is high and these analytes were not detected in W18ST-SB14-5. The non-detected result for hexachlorocyclopentadiene in sample W18ST-SB14-5 is flagged with a "UJ" qualifier.

As noted above, four soil samples were analyzed as MS/MSD pairs for semivolatile organic analytes. In each of these analyses, recoveries of hexachlorocyclopentadiene are below laboratory-defined limits. These results are indicative of a potential low bias in all soil samples. Therefore, hexachlorocyclopentadiene results in all soil samples (all non-detected) are flagged with "UJ" qualifiers. Because all associated LCS analyses are within laboratory-specified acceptance criteria, the most likely cause of the low hexachlorocyclopentadiene recoveries is matrix interferences.

Recoveries of hexachlorobenzene are below laboratory-defined limits and recoveries of pyridine are greater than acceptance criteria in the TCLP MS/MSD analyses of sample W18STMGP-COMP-8-10-04. Pyridine results are not qualified since the bias indicated in MS/MSD analyses is high and this compound was not detected in the un-spiked analysis of sample W18STMGP-COMP-8-10-04. The reported non-detected result for hexachlorobenzene in W18STMGP-COMP-8-10-04 is flagged with a "UJ" qualifier.

Recoveries of hexachlorobenzene are below laboratory-defined limits and recoveries of pyridine and 2,4,6-trichlorophenol are greater than acceptance criteria in the TCLP MS/MSD analyses of sample W18STMGP-COMP-072104. Pyridine and 2,4,6-trichlorophenol results are not qualified since the bias indicated in MS/MSD analyses is high and this compound was not detected in the un-spiked analysis of sample W18STMGP-COMP-072104. The reported non-detected result for hexachlorobenzene in W18STMGP-COMP-072104 is flagged with a "UJ" qualifier.

Recoveries of nitrobenzene and hexachlorobutadiene are below laboratory-specified recovery limits in TCLP MS/MSD analyses of sample W18STMGP-COMP-81904. Non-detected results for these compounds are flagged with "UJ" qualifiers in sample W18STMGP-COMP-81904.

Metals

Recovery of mercury is less than laboratory-defined limits in the post-digestion spike performed using sample W18STMGP-B26-6.57. Reported concentration of mercury in associated samples W18STMGP-MW40A-45, W18STMGP-B46-4.55.5, W18STMGP-B45-78, W18STMGP-B26-6.57, W18STMGP-B07-67, W18STMGP-MW7A-67, W18STMGP-B08-45, and W18STMGP-B27-5.05.5 are flagged with "J" qualifiers.

Recoveries of antimony, copper, lead, and mercury are below control limits in MS/MSD analyses of sample W18ST-SB14-5S. These results may indicate a low bias in reported results for these analytes in the un-spiked analysis. Therefore, the non-detected result for antimony is flagged with a "UJ" qualifier and detected results for copper, lead, and mercury are flagged with "J" qualifiers in sample W18ST-SB11-6. The low bias may affect samples with a similar matrix and/or collected in close proximity to sample W18ST-SB11-6.

Cyanide

All criteria are met.

PCBs

Recoveries of both spiked PCB analytes in MS/MSD analyses sample W18ST-SB14-5 are indicative of a high bias in reported results due to matrix interferences. Since the bias is high and target PCB analytes were not detected in the un-spiked sample, data were not qualified.

Pesticides

Recoveries of delta-BHC, gamma-chlordane, alpha-chlordane, 4,4'DDE, and 4,4'DDD in MS/MSD analyses of sample W18ST-SB14-5 are also indicative of a high bias in reported results due to matrix interferences. Again, since the bias is high and target pesticide analytes were not detected in the un-spiked sample, data were not qualified.

Herbicides

Recoveries of 2,4-D and 2,4,5-T are less than laboratory-defined limits in MS/MSD analyses of sample W18ST-SB14-5. These results may indicate a low bias in reported results for these analytes in the un-spiked analysis. Therefore, non-detected results for 2,4-D and 2,4,5-T are flagged with "UJ" qualifiers in sample W18ST-SB14-5. The low bias may affect samples with a similar matrix and/or collected in close proximity to sample W18ST-SB14-5.

Internal Standard Recoveries and Retention Times

Volatile Organic Analytes

Area counts for all internal standard compounds in sample W18STMGP-SB40B-4143 are less than 50% of the count in the associated 12-hour standard and the area count for 1,4-dichlorobenzene-d_4 is less than 25%. These results are indicative of errant quantification of all values associated with target analytes in this sample. Reported non-detected results for isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "R" qualifiers. Reported results for all remaining analytes in this sample (all non-detect) are flagged with "UJ" qualifiers.

Area counts for all internal standard compounds in sample W18STMGP-SB40B-4143RE are less than 50% of the count in the associated 12-hour standard. These results are indicative of errant quantification of all values associated with target analytes in this sample. Reported results for all target analytes in this sample (all non-detect) are flagged with "UJ" qualifiers.

Area counts for all internal standards in sample W18STMGP-SB27.44.545 are less than 25% of the counts in the associated 12-hour standard. Reported positive results for methyl acetate, benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene are flagged with "J" qualifiers and all remaining non-detected analytes are flagged with "R" qualifiers.

Area counts are below acceptance criteria in toxicity characteristic leaching procedure (TCLP) analyses of samples W18STMGP-WCOMP-081204 and W18STMGP-WCOMP-081204RE. Results for vinyl chloride, 1,1dichloroethene, 2-butanone, and chloroform are flagged with "UJ" qualifiers. Results for carbon tetrachloride, benzene, 1,2-dichloroethane, trichloroethene, tetrachloroethene, and chlorobenzene are flagged with "R" qualifiers since the area count for the internal standard associated with these analytes is less than 25% of the 12-hour standard.

The area count for internal standard chlorobenzene-d_5 is less than 25% of the 12-hour standard in sample W18STMGP-B15-56. Associated non-detected results for tetrachloroethene, chlorobenzene, ethylbenzene, m/p-xylenes, o-xylene, styrene, and bromoform are flagged with "R" qualifiers. Recovery of internal standard 1,4-dichlorobenzene-d_4 is less than 50% of that in the 12-hour standard in the same sample. Reported non-detected results for isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "UJ" qualifiers.

The area count for internal standard chlorobenzene-d_5 is greater than 200% of that in the associated 12-hour standard in sample W18STMGP-B15-1719. Reported results of associated

compounds chlorobenzene, ethylbenzene, m/p-xylenes, and o-xylene are flagged with "J" qualifiers. The area count for internal standard 1,4-dichlorobenzene-d_4 is less than 25% that in the associated 12-hour standard in the same sample. Results for isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "R" qualifiers.

Semivolatile Organic Analytes

Area counts for internal standards 1,4-dichlorobenzene-d_4 and perylene-d_{12} are below acceptance criteria in the analysis of sample W18STMGP-SB27.44.545DL. Results for benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3+4-methylphenols, N-nitroso-di-n-propylamine, hexachloroethane, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "UJ" qualifiers. Positive results for benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene are flagged with "J" qualifiers.

The area counts for internal standard perylene-d_{12} in samples W18STMGP-SB43-6-8, W18STMGP-SB43-6-8RE, and W18STMGP-SB43-8-10RE are less than 25% of the counts for the associated 12-hour standards. Results for associated target analytes benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "R" qualifiers.

The area count for internal standard perylene-d_{12} in sample W18STMGP-SB43-8-10 is less than 50% of the associated 12-hour standard. Positive results for benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and benzo(g,h,i)perylene are flagged with "J" qualifiers and the non-detected result for dibenz(a,h)anthracene is flagged with "UJ" qualifiers.

The area count for internal standard perylene-d_{12} in sample W18STMGP-SB34-20.521 is less than 50% of the associated 12-hour standard. Positive results for benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and benzo(g,h,i)perylene are flagged with "J" qualifiers and the non-detected result for dibenz(a,h)anthracene is flagged with "UJ" qualifiers. Equivalent results were exhibited in the re-analysis of this sample (W18STMGP-SB34-20.521RE) and equivalent qualification of the resultant data was performed.

The area count for internal standard naphthalene-d_8 in sample W18STMGP-SB44-0810 is less than 50% of the associated 12-hour standard. Positive results for associated target analytes naphthalene and 2-methylnaphthalene are flagged with "J" qualifiers and the non-detected result for acetophenone, nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 4-chloroaniline, hexachlorobutadiene, caprolactam, and 4-chloro-3-methylphenol are flagged with "UJ" qualifiers. Equivalent results were exhibited in the re-analysis of this sample (W18STMGP-SB44-0810RE) and equivalent qualification of the resultant data was performed. Recovery of internal standard perylene-d_{12} is also less than

50% of the 12-hour standard in sample W18STMGP-SB44-0810RE; therefore, positive concentrations of benzo(b)fluoranthene and benzo(a)pyrene are flagged with "J" qualifiers and non-detected results for benzo(k)fluoranthene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "UJ" qualifiers.

The area count for internal standard perylene-d_{12} in sample W18STMGP-SB44-6.0-8.0 is less than 25% of the count in the associated 12-hour standard. Results for detected target analytes benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene are flagged with "J" qualifiers and non-detected results for dibenz(a,h)anthracene and benzo(g,h,i)perylene are flagged with "R" qualifiers in sample W18STMGP-SB44-6.0-8.0.

The area count for internal standard perylene-d_{12} in sample W18STMGP-SB44-6.0-8.0RE is less than 50% of the count in the associated 12-hour standard. Results for detected target analytes benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene are flagged with "J" qualifiers and non-detected results for dibenz(a,h)anthracene and benzo(g,h,i)perylene are flagged with "UJ" qualifiers in sample W18STMGP-SB44-6.0-8.0RE.

Laboratory Control Samples

All criteria are met for most methods.

Semivolatile Organic Analytes

Recovery of 4-nitrophenol is greater than laboratory-defined limits in the laboratory control sample (LCS) identified as SLCS01 (PB00340BS) in SDG S4076. Since the bias is high and 4-nitrophenol was not detected in any associated sample, data were not qualified.

Recoveries of pyridine and pentachlorophenol are greater than acceptance criteria in the TCLP LCS identified as SLCS01 (PB00465BS) in SDG S4147. Since the bias is high and these compounds were not detected in any associated sample, data were not qualified.

Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted. Select target analytes results were reported below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Some samples were analyzed at dilutions. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

Herbicides

The %D value for concentrations of 2,4-D calculated for responses on the primary and confirmatory columns is greater than specified limits in samples W18STMGP-B07-67,

W18STMGP-MW7A-67, and W18STMGP-B08-45. Reported results for 2,4-D in the listed samples are flagged with “J” qualifiers.

Laboratory Duplicate Results

The reported RPD value for mercury in duplicate analyses of sample W18STMGP-B52-2729 is greater than USEPA Region II limits. This result may be indicative of more variability than targeted for mercury results in this sample. Therefore, the reported concentration of mercury in sample W18STMGP-B52-2729 is flagged with a “J” qualifier.

Serial Dilutions

The %D value for mercury in a serial dilution of sample W18ST-SB14-5 falls outside of control limits. Detected mercury results in associated samples W18ST-SB14-5 and W18ST-SB11-6 are flagged with “J” qualifiers.

Target Compound Identification

All criteria are met.

Other Issues

Sample W18STMGP-B15-1719 was analyzed outside of the method-required 12-hour window that begins with injection of tuning compound bromofluorobenzene. Both positive and non-detected results in this sample are flagged with “R” qualifiers.

DATA ASSESSMENT NARRATIVE TABLES

Table 1: Samples Reviewed and Associated Analytical Method

Matrix	Sample ID	Collection Date	Collection Time	Methods								Lab Sample ID
				Metals	Mercury	Pesticides	PCBs	Herbicides	VOAs	SVOAs	Cyanide	
Soil	W18STMGP-B52-1113	5/1/2004	11:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-01
Soil	W18STMGP-B52-2729	5/1/2004	14:16	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-02
Soil	W18STMGP-B52-3335	5/1/2004	14:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-05
Soil	W18STMGP-TP3-7.5	5/1/2004	12:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-06
Soil	W18STMGP-COMP-5-1-04	5/1/2004	15:10	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-07
Soil	W18STMGP-B19-57	5/2/2004	8:50	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-08
Soil	W18STMGP-B19-1719	5/2/2004	9:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-09
Soil	W18STMGP-B20-911	5/2/2004	11:22	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-10
Soil	W18STMGP-TP6-9.5	5/2/2004	12:46	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-11
Soil	W18STMGP-B20-1315	5/2/2004	13:43	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-12
Soil	W18STMGP-B20-1920	5/2/2004	13:45	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-13
Soil	W18STMGP-B20-4143	5/2/2004	14:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-14
Soil	W18STMGP-B61-4143	5/2/2004	14:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-15
Soil	W18STMGP-B20-4951	5/2/2004	14:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-16
Soil	W18STMGP-COMP-5-2-04	5/2/2004	15:45	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-17
Soil	W18STMGP-COMP-5-3-04	5/3/2004	14:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-18
Soil	W18STMGP-B47-79	5/3/2004	10:05	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-19
Soil	W18STMGP-B47-1315	5/3/2004	10:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-20
Soil	W18STMGP-B47-1719	5/3/2004	10:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-21
Soil	W18STMGP-B48-79	5/3/2004	13:40	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-22
Soil	W18STMGP-B48-1516	5/3/2004	13:50	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-23
Soil	W18STMGP-B48-1921	5/3/2004	14:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-24
Soil	W18STMGP-B21-1113	5/4/2004	10:40	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-25
Soil	W18STMGP-B21-1517	5/4/2004	10:50	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-26
Soil	W18STMGP-B21-2123	5/4/2004	11:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-27
Soil	W18STMGP-COMP-5-4-04	5/4/2004	11:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S2436-28
Water	W18STMGP-RB-02	5/4/2004	12:30	SW6010	SW7470	--	--	--	SW8260	SW8270	SW9012	S2436-29
Soil	W18STMGP-B32-1113	5/22/2004	10:50	SW6010	SW7471	--	SW8082	--	SW8260	SW8270	SW9012	S2769-01
Soil	W18STMGP-B32-2123	5/22/2004	11:00	SW6010	SW7471	--	SW8082	--	SW8260	SW8270	SW9012	S2769-02
Soil	W18STMGP-MW40A-45	7/6/2004	12:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3499-01

Table 1: Samples Reviewed and Associated Analytical Method (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods								Lab Sample ID
				Metals	Mercury	Pesticides	PCBs	Herbicides	VOAs	SVOAs	Cyanide	
Soil	W18STMGP-B46-4.55.5	7/7/2004	10:45	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3499-02
Soil	W18STMGP-B45-78	7/8/2004	14:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3499-03
Soil	W18STMGP-B26-6.57	7/8/2004	12:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3499-04
Soil	W18STMGP-B07-67	7/9/2004	10:00	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S3499-05
Soil	W18STMGP-MW7A-67	7/9/2004	11:30	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S3499-06
Soil	W18STMGP-B08-45	7/9/2004	13:15	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S3499-07
Soil	W18STMGP-B27-5.05.5	7/9/2004	13:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3499-08
Soil	W18STMGP-SB26-3133	7/26/2004	5:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3835-01
Soil	W18STMGP-SB26-3537	7/27/2004	5:08	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3835-02
Soil	W18STMGP-SB40B-3335	7/27/2004	3:35	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3835-03
Soil	W18STMGP-SB40B3537	7/27/2004	4:05	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3835-04
Soil	W18STMGP-SB40B4143	7/27/2004	4:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3835-05
Soil	W18STMGP-SB39-7.58.0	7/21/2004	1:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-01
Soil	W18STMGP-SB39-23.0	7/21/2004	1:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-02
Soil	W18STMGP-SB18-7.37.9	7/21/2004	4:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-03
Soil	W18STMGP-SB18-28.529.0	7/21/2004	4:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-04
Soil	W18STMGP-SB18-42.543.0	7/21/2004	6:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-05
Soil	W18STMGP-SB45-7.07.5	7/22/2004	1:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-06
Soil	W18STMGP-SB45-31.532.0	7/22/2004	4:50	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-07
Soil	W18STMGP-SB317.17.7	7/12/2004	14:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-08
Soil	W18STMGP-SB136.06.5	7/12/2004	11:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-09
Soil	W18STMGP-SB27-596.3	7/22/2004	6:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-10
Soil	W18STMGP-SB27.40.941.3	7/22/2004	6:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-11
Soil	W18STMGP-SB27.44.545	7/22/2004	7:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3732-12
Soil	W18STMGP-SB43-7.07.5	7/23/2004	2:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3756-01
Soil	W18STMGP-SB43-23.023.5	7/23/2004	12:45	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3756-02
Soil	W18STMGP-SB43-6-8	8/2/2004	3:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3901-01
Soil	W18STMGP-SB43-8-10	8/2/2004	3:15	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S3901-02
TCLP	W18STMGP-COMP-8-9-04	8/9/2004	13:50	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4050-01
Soil	W18STMGP-COMP-8-9-04	8/9/2004	13:50	--	--	--	SW8082	--	--	--	RCI	S4050-01

Table 1: Samples Reviewed and Associated Analytical Method (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods								Lab Sample ID
				Metals	Mercury	Pesticides	PCBs	Herbicides	VOAs	SVOAs	Cyanide	
Soil	W18STMGP-SB34-20.521	8/10/2004	10:40	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4076-01
Soil	W18STMGP-SB34-28.529	8/10/2004	11:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4076-02
Soil	W18STMGP-SB44-0810	8/2/2004	1:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4076-03
Soil	W18STMGP-SB44-6.0-8.0	8/2/2004	0:45	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4076-04
TCLP	W18STMGP-COMP-8-10-04	8/10/2004	14:50	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4077-01
TCLP	W18STMGP-WCOMP-8-10-04	8/10/2004	14:35	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4077-02
Soil	W18STMGP-COMP-8-10-04	8/10/2004	14:50	--	--	--	SW8082	--	--	--	RCI	S4077-01
Water	W18STMGP-WCOMP-8-10-04	8/10/2004	14:35	--	--	--	SW8082	--	--	--	RCI	S4077-02
TCLP	W18STMGP-COMP-8-11-04	8/11/2004	13:30	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4099-01
TCLP	W18STMGP-WCOMP-8-11-04	8/11/2004	14:00	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4099-02
Soil	W18STMGP-COMP-8-11-04	8/11/2004	13:30	--	--	--	SW8082	--	--	--	RCI	S4099-01
Water	W18STMGP-WCOMP-8-11-04	8/11/2004	14:00	--	--	--	SW8082	--	--	--	RCI	S4099-02
TCLP	W18STMGP-COMP-8-12-04	8/12/2004	13:45	SW6010	SW7470	--		--	SW8260	SW8270	--	S4126-01
TCLP	W18STMGP-WCOMP-8-12-04	8/12/2004	14:15	SW6010	SW7470	--		--	SW8260	SW8270	--	S4126-02
Soil	W18STMGP-COMP-8-12-04	8/12/2004	13:45	--	--	--	SW8082	--	--	--	RCI	S4126-01
Water	W18STMGP-WCOMP-8-12-04	8/12/2004	14:15	--	--	--	SW8082	--	--	--	RCI	S4126-02
TCLP	W18STMGP-COMP-072104	8/13/2004	10:00	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4147-01
TCLP	W18STMGP-WCOMP-072104	8/13/2004	9:00	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4147-02
TCLP	W18STMGP-COMP-072604	8/13/2004	10:45	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4147-03
TCLP	W18STMGP-COMP-072804	8/13/2004	11:30	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4147-04
Soil	W18STMGP-COMP-072104	8/13/2004	10:00	--	--	--	SW8082	--	--	--	RCI	S4147-01
Water	W18STMGP-WCOMP-072104	8/13/2004	9:00	--	--	--	SW8082	--	--	--	RCI	S4147-02
Soil	W18STMGP-COMP-072604	8/13/2004	10:45	--	--	--	SW8082	--	--	--	RCI	S4147-03
Soil	W18STMGP-COMP-072804	8/13/2004	11:30	--	--	--	SW8082	--	--	--	RCI	S4147-04
TCLP	W18STMGP-B15-45	8/18/2004	10:35	--	--	--	--	--	SW8260	SW8270	--	S4251-01
TCLP	W18STMGP-B15-56	8/18/2004	10:38	--	--	--	--	--	SW8260	--	--	S4251-02
TCLP	W18STMGP-B15-79	8/19/2004	9:11	--	--	--	--	--	SW8260	--	--	S4251-03
TCLP	W18STMGP-B15-1113	8/19/2004	9:38	--	--	--	--	--	SW8260	--	--	S4251-04
TCLP	W18STMGP-B15-1719	8/19/2004	10:00	--	--	--	--	--	SW8260	--	--	S4251-05
TCLP	W18STMGP-B15-2325	8/19/2004	10:20	--	--	--	--	--	SW8260	--	--	S4251-06

Table 1: Samples Reviewed and Associated Analytical Method (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods								Lab Sample ID
				Metals	Mercury	Pesticides	PCBs	Herbicides	VOAs	SVOAs	Cyanide	
TCLP	W18STMGP-COMP-81904A	8/19/2004	11:00	SW6010	SW7470	--	--	--	SW8260	--	--	S4251-07
Soil	W18STMGP-B15-45	8/18/2004	10:35	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-01
Soil	W18STMGP-B15-56	8/18/2004	10:38	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-02
Soil	W18STMGP-B15-79	8/19/2004	9:11	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-03
Soil	W18STMGP-B15-1113	8/19/2004	9:38	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-04
Soil	W18STMGP-B15-1719	8/19/2004	10:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-05
Soil	W18STMGP-B15-2325	8/19/2004	10:20	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4251-06
Soil	W18STMGP-COMP-81904A	8/19/2004	11:00	--	--	--	--	--	SW8260	--	RCI	S4251-07
TCLP	W18STMGP-B24-8284	8/30/2004	14:00	--	--	--	--	--	SW8260	--	--	S4506-01
TCLP	W18STMGP-WCOMP-83004	8/31/2004	10:00	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4506-02
TCLP	W18STMGP-WCOMP-83104	8/31/2004	14:21	SW6010	SW7470	--	--	--	SW8260	SW8270	--	S4506-03
Soil	W18STMGP-B24-8284	8/30/2004	14:00	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4506-01
Water	W18STMGP-WCOMP-83004	8/31/2004	10:00	--	--	--	--	--	SW8260	--	RCI	S4506-02
Water	W18STMGP-WCOMP-83104	8/31/2004	14:21	--	--	--	--	--	SW8260	--	RCI	S4506-03
Soil	W18ST-SB12-5-7	9/11/2004	10:10	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-01
Soil	W18ST-SB12-7-9	9/11/2004	11:02	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-02
Soil	W18ST-SB12-15-17	9/11/2004	11:52	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-03
Soil	W18ST-SB14-5	9/11/2004	12:46	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S4648-04
Soil	W18ST-SB11-6	9/11/2004	14:30	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S4648-07
Soil	W18ST-SB10-5	9/11/2004	15:50	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S4648-08
Soil	W18ST-SB9-4	9/12/2004	11:00	SW6010	SW7471	SW8081	SW8082	SW8151	SW8260	SW8270	SW9012	S4648-09
Soil	W18ST-TP2-10-11	9/12/2004	10:50	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-10
Soil	W18ST-SB12-25-27	9/12/2004	8:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-11
Soil	W18STMGP-SB12-4951	9/12/2004	14:30	SW6010	SW7471	--	--	--	SW8260	SW8270	SW9012	S4648-12

RCI Reactivity (cyanide and sulfide), Corrosivity, Ignitability

SW *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, (U.S. Environmental Protection Agency)

TCLP Toxicity Characteristic Leaching Procedure

6010 Method 6010B – Inductively Coupled Plasma-Atomic Emission Spectrometry

7471 Method 7471A – Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)

8081 Method 8081A – Organochlorine pesticides by Gas Chromatography

Table 1: Samples Reviewed and Associated Analytical Method (continued)

8082 Method 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

8151 Method 8151A - Chlorinated Herbicides by GC using Methylation or Pentafluorobenzylation Derivatization

8260 Method 8260B - Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

8270 Method 8270C - Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

9012 Method 9012A - Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)

-- No data

Table 2: Qualified Analytical Data

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
All Soil Samples	SVOA	Hexachlorocyclopentadiene	UJ	Low recoveries in all MS/MSD analyses.
W18STMGP-B07-67	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-B07-67	Metals	Mercury	J	Low PDS recovery.
W18STMGP-B07-67	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B07-67	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-B07-67	PCBs	Aroclor 1016	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1221	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1232	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1242	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1248	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1254	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	PCBs	Aroclor 1260	UJ	Low ending calibration verification standard.
W18STMGP-B07-67	Herbicides	2,4-D	J	High %D between calculated concentrations on dual columns.
W18STMGP-B08-45	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-B08-45	SVOA	Phenanthrene	J	High initial calibration %RSD.
W18STMGP-B08-45	Metals	Mercury	J	Low PDS recovery.
W18STMGP-B08-45	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B08-45	Metals	Thallium	J	Low CRDL standard recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B08-45	PCBs	Aroclor 1016	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1221	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1232	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1242	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1248	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1254	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	PCBs	Aroclor 1260	UJ	Low ending calibration verification standard.
W18STMGP-B08-45	Herbicides	2,4-D	J	High %D between calculated concentrations on dual columns.
W18STMGP-B15-1113	VOA	Acetone	J	High initial calibration %D. High continuing calibration %D.
W18STMGP-B15-1113	VOA	Carbon disulfide	J	High initial calibration %D. High continuing calibration %D.
W18STMGP-B15-1113	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-B15-1113	VOA	Methylcyclohexane	J	High continuing calibration %D.
W18STMGP-B15-1113	VOA	Isopropylbenzene	J	High continuing calibration %D.
W18STMGP-B15-1113	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-1113	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B15-1719	VOA	Cyclohexane	R	Analyzed outside 12-hour window. High continuing calibration %D. High surrogate recoveries.
W18STMGP-B15-1719	VOA	cis-1,2-Dichloroethene	R	Analyzed outside 12-hour window. High surrogate recoveries.
W18STMGP-B15-1719	VOA	Methylcyclohexane	R	Analyzed outside 12-hour window. High continuing calibration %D. High surrogate recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B15-1719	VOA	Benzene	R	Analyzed outside 12-hour window. High surrogate recoveries.
W18STMGP-B15-1719	VOA	Toluene	R	Analyzed outside 12-hour window. High surrogate recoveries.
W18STMGP-B15-1719	VOA	Chlorobenzene	R	Analyzed outside 12-hour window. High surrogate recoveries. High internal standard area count.
W18STMGP-B15-1719	VOA	Ethylbenzene	R	Analyzed outside 12-hour window. High surrogate recoveries. High internal standard area count.
W18STMGP-B15-1719	VOA	m/p-Xylenes	R	Analyzed outside 12-hour window. High surrogate recoveries. High internal standard area count.
W18STMGP-B15-1719	VOA	o-Xylene	R	Analyzed outside 12-hour window. High surrogate recoveries. High internal standard area count.
W18STMGP-B15-1719	VOA	Isopropylbenzene	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard. High surrogate recoveries. High continuing calibration %D.
W18STMGP-B15-1719	VOA	1,1,2,2-Tetrachloroethane	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard
W18STMGP-B15-1719	VOA	1,3-Dichlorobenzene	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard
W18STMGP-B15-1719	VOA	1,4-Dichlorobenzene	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard
W18STMGP-B15-1719	VOA	1,2-Dichlorobenzene	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B15-1719	VOA	1,2-Dibromo-3-chloropropane	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard
W18STMGP-B15-1719	VOA	1,2,4-Trichlorobenzene	R	Analyzed outside 12-hour window. Internal standard area count < 25% of 12-hour standard
W18STMGP-B15-1719	VOA	All Non-detected Analytes	R	Analyzed outside 12-hour window.
W18STMGP-B15-1719	SVOA	Naphthalene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	2-Methylnaphthalene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Acenaphthylene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Acenaphthene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Dibenzofuran	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Fluorene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Phenanthrene	J	High continuing calibration %D. High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Anthracene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Carbazole	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Fluoranthene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Pyrene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Benzo(a)anthracene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Chrysene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Benzo(b)fluoranthene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD. High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Benzo(a)pyrene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Indeno(1,2,3-cd)pyrene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Dibenz(a,h)anthracene	J	High surrogate recoveries.
W18STMGP-B15-1719	SVOA	Benzo(g,h,i)perylene	J	High surrogate recoveries.
W18STMGP-B15-1719	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B15-1719DL	SVOA	Benzo(k)fluoranthene	J	High intial calibration %RSD.
W18STMGP-B15-1719DL	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-1719DL2	SVOA	Phenanthrene	J	High continuing calibration %D.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B15-2325	VOA	Acetone	R	Continuing calibration %D is greater than 90%.
W18STMGP-B15-2325	VOA	Methylene chloride	J	High intial calibration %RSD.
W18STMGP-B15-2325	VOA	Carbon disulfide	J	High continuing calibration %D.
W18STMGP-B15-2325	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-2325	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18STMGP-B15-2325	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B15-2325DL	SVOA	Benzo(k)fluoranthene	J	High intial calibration %RSD.
W18STMGP-B15-2325DL	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-2325DL2	SVOA	Benzo(k)fluoranthene	J	High intial calibration %RSD.
W18STMGP-B15-2325DL2	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-45	Metals	Lead	J	Low CRDL standard recovery.
W18STMGP-B15-45	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B15-56	VOA	Methylcyclohexane	J	High continuing calibration %D. High surrogate recoveries.
W18STMGP-B15-56	VOA	Tetrachloroethene	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	Chlorobenzene	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	Ethylbenzene	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	m/p-Xylenes	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	o-Xylene	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	Styrene	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	Bromoform	R	Internal standard area < 25% of the 12-hour standard.
W18STMGP-B15-56	VOA	Isopropylbenzene	UJ	Low internal standard area.
W18STMGP-B15-56	VOA	1,1,2,2-Tetrachloroethane	UJ	Low internal standard area.
W18STMGP-B15-56	VOA	1,3-Dichlorobenzene	UJ	Low internal standard area.
W18STMGP-B15-56	VOA	1,4-Dichlorobenzene	UJ	Low internal standard area.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B15-56	VOA	1,2-Dichlorobenzene	UJ	Low internal standard area.
W18STMGP-B15-56	VOA	1,2-Dibromo-3-chloropropane	UJ	Low internal standard area.
W18STMGP-B15-56	VOA	1,2,4-Trichlorobenzene	UJ	Low internal standard area.
W18STMGP-B15-56	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-56	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B15-56DL	VOA	Methylcyclohexane	J	High surrogate recovery. High initial calibration %RSD. High continuing calibration %D.
W18STMGP-B15-79	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-B15-79	VOA	Cyclohexane	J	High continuing calibration %D.
W18STMGP-B15-79	VOA	Methylcyclohexane	J	High continuing calibration %D.
W18STMGP-B15-79	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-B15-79	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18STMGP-B15-79	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B19-1719	VOA	Toluene	J	High initial calibration %RSD.
W18STMGP-B20-1315	VOA	Isopropylbenzene	R	Continuing calibration %D is greater than 90%.
W18STMGP-B20-1920	VOA	Acetone	J	High initial calibration %RSD.
W18STMGP-B24-8284	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-B24-8284	SVOA	4-Nitrophenol	R	Continuing calibration %D is greater than 90%.
W18STMGP-B24-8284	SVOA	bis(2-Ethylhexyl)phthalate	J	High initial calibration %RSD.
W18STMGP-B26-6.57	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-B26-6.57	Metals	Mercury	J	Low PDS recovery.
W18STMGP-B26-6.57	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B26-6.57	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-B27-5.05.5	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank. Low surrogate recovery.
W18STMGP-B27-5.05.5	VOA	Tetrachloroethene	J	Low surrogate recovery.
W18STMGP-B27-5.05.5	VOA	All Non-Detected Analytes	UJ	Low surrogate recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B27-5.05.5	SVOA	3/4-Methylphenols	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Acenaphthene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Fluorene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Phenanthrene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Anthracene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Fluoranthene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	SVOA	Indeno(1,2,3-cd)pyrene	J	High initial calibration %RSD.
W18STMGP-B27-5.05.5	Metals	Mercury	J	Low PDS recovery.
W18STMGP-B27-5.05.5	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B27-5.05.5	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-B27-5.05.5RE	VOA	Acetone	J	Low surrogate recovery.
W18STMGP-B27-5.05.5RE	VOA	Methylene chloride	J	Detected in method blank. Low surrogate recovery.
W18STMGP-B27-5.05.5RE	VOA	Tetrachloroethene	J	Low surrogate recovery.
W18STMGP-B27-5.05.5RE	VOA	All Non-Detected Analytes	UJ	Low surrogate recovery.
W18STMGP-B32-1113	VOA	Chloroethane	R	Initial calibration and continuing calibration RRFs < 0.05.
W18STMGP-B32-1113	Metals	Chromium	J	High CRDL standard recovery.
W18STMGP-B32-1113	Metals	Lead	J	High CRDL standard recovery.
W18STMGP-B32-1113	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-B32-2123	VOA	Chloroethane	R	Initial calibration and continuing calibration RRFs < 0.05.
W18STMGP-B32-2123RE	VOA	Chloroethane	R	Initial calibration RRF < 0.05.
W18STMGP-B32-2123RE	VOA	Acetone	J	Low surrogate recovery.
W18STMGP-B32-2123RE	VOA	All Non-Detected Analytes	UJ	Low surrogate recovery.
W18STMGP-B45-78	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-B45-78	SVOA	Phenanthrene	J	High initial calibration %RSD.
W18STMGP-B45-78	SVOA	Fluoranthene	J	High initial calibration %RSD.
W18STMGP-B45-78	SVOA	Indeno(1,2,3-cd)pyrene	J	High initial calibration %RSD.
W18STMGP-B45-78	Metals	Mercury	J	Low PDS recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B45-78	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B45-78	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-B46-4.55.5	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-B46-4.55.5	Metals	Mercury	J	Low PDS recovery.
W18STMGP-B46-4.55.5	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-B46-4.55.5	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-B47-1719	VOA	Acetone	J	High initial calibration %RSD.
W18STMGP-B47-1719DL	VOA	Isopropylbenzene	R	Continuing calibration %D is greater than 90%.
W18STMGP-B48-1516	VOA	Toluene	J	High initial calibration %RSD.
W18STMGP-B48-1516DL	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-B48-1516DL	SVOA	Benzo(g,h,i)perylene	J	High continuing calibration %D.
W18STMGP-B48-1921	VOA	Acetone	J	High initial calibration %RSD.
W18STMGP-B48-1921DL	VOA	Isopropylbenzene	R	Continuing calibration %D is greater than 90%.
W18STMGP-B48-1921DL2	VOA	Toluene	J	High initial calibration %RSD.
W18STMGP-B48-79	VOA	Acetone	J	High initial calibration %RSD.
W18STMGP-B52-1113	VOA	Benzene	J	Low MS/MSD recoveries.
W18STMGP-B52-2729	VOA	1,1-Dichloroethene	UJ	Low MS/MSD recoveries.
W18STMGP-B52-2729	VOA	Benzene	J	Low MS/MSD recoveries.
W18STMGP-B52-2729	VOA	Toluene	J	Low MS/MSD recoveries. High initial calibration %RSD.
W18STMGP-B52-2729	Metals	Mercury	J	High laboratory duplicate RPD.
W18STMGP-B52-2729	SVOA	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B52-2729	SVOA	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B52-2729	SVOA	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B52-2729	SVOA	Benzo(g,h,i)perylene	UJ	Low and high MS/MSD recoveries.
W18STMGP-COMP-5-1-04	VOA	Toluene	J	High initial calibration %RSD.
W18STMGP-COMP-072104	TCLP SVOA	Hexachlorobenzene	UJ	Low MS/MSD recoveries.
W18STMGP-COMP-072104	TCLP Metals	Lead	J	Low CRDL standard recovery.
W18STMGP-COMP-072604	TCLP Metals	Lead	UJ	Low CRDL standard recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-COMP-072804	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-COMP-8-10-04	TCLP Metals	Lead	J	Detected in extraction batch. Low CRDL standard recovery.
W18STMGP-COMP-8-10-04	TCLP SVOA	Hexachlorobenzene	UJ	Low MS/MSD recoveries.
W18STMGP-COMP-8-11-04	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-COMP-8-12-04	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-COMP-81904A	TCLP SVOA	Nitrobenzene	UJ	Low MS/MSD recoveries.
W18STMGP-COMP-81904A	TCLP SVOA	Hexachlorobutadiene	UJ	Low MS/MSD recoveries.
W18STMGP-COMP-8-9-04	TCLP Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-MW40A-45	VOA	Methylene chloride	J	High initial calibration %RSD. High continuing calibration %D. Detected in method blank.
W18STMGP-MW40A-45	Metals	Mercury	J	Low PDS recovery.
W18STMGP-MW40A-45	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-MW40A-45	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-MW7A-67	VOA	Methylene chloride	J	Detected in method blank.
W18STMGP-MW7A-67	Metals	Mercury	J	Low PDS recovery.
W18STMGP-MW7A-67	Metals	Selenium	J	High CRDL standard recovery.
W18STMGP-MW7A-67	Metals	Thallium	J	Low CRDL standard recovery.
W18STMGP-MW7A-67	PCBs	Aroclor 1016	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1221	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1232	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1242	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1248	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1254	UJ	Low ending calibration verification standard.
W18STMGP-MW7A-67	PCBs	Aroclor 1260	UJ	Low ending calibration verification standard.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-MW7A-67	Herbicides	2,4-D	J	High %D between calculated concentrations on dual columns.
W18STMGP-SB12-4951	Metals	Arsenic	J	High CRDL standard recovery.
W18STMGP-SB136.06.5	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB136.06.5	SVOA	bis(2-Ethylhexyl)phthalate	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB136.06.5	SVOA	All Non-Detected Analytes	UJ	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB18-28.529.0	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB18-28.529.0	VOA	Cyclohexane	J	High initial calibration %RSD.
W18STMGP-SB18-28.529.0	SVOA	4-Nitrophenol	J	High continuing calibration %D.
W18STMGP-SB18-28.529.0	SVOA	Carbazole	J	High continuing calibration %D.
W18STMGP-SB18-28.529.0	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB18-42.543.0	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB18-42.543.0	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB18-42.543.0	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-SB18-7.37.9	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB18-7.37.9	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB26-3133	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-SB26-3133	SVOA	Benzo(b)fluoranthene	J	High continuing calibration %D.
W18STMGP-SB26-3133	SVOA	Dibenz(a,h)anthracene	J	High continuing calibration %D.
W18STMGP-SB26-3537	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18STMGP-SB26-3537	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB26-3537	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-SB27.40.941.3	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB27.40.941.3	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB27.44.545	VOA	Methyl acetate	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	Benzene	J	Internal standard recovery < 25% of 12-hour standard.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB27.44.545	VOA	Toluene	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	Ethylbenzene	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	m/p-Xylenes	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	o-Xylene	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	Isopropylbenzene	J	Internal standard recovery < 25% of 12-hour standard.
W18STMGP-SB27.44.545	VOA	All Non-Detected Analytes	R	All internal standard recoveries < 25% of 12-hour standard.
W18STMGP-SB27.44.545	SVOA	Fluorene	J	High continuing calibration %D.
W18STMGP-SB27.44.545	SVOA	Benzo(b)fluoranthene	J	High continuing calibration %D.
W18STMGP-SB27.44.545	SVOA	Benzo(k)fluoranthene	J	High continuing calibration %D.
W18STMGP-SB27.44.545	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB27.44.545DL	SVOA	Carbazole	J	High continuing calibration %D.
W18STMGP-SB27.44.545DL	SVOA	Benzaldehyde	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Phenol	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	2-Chlorophenol	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	2-Methylphenol	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	2,2-oxybis(1-Chloropropane)	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	3/4-Methylphenols	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Heaxachloroethane	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Benzo(b)fluoranthene	J	High continuing calibration %D. Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-SB27.44.545DL	SVOA	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB27-596.3	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB27-596.3	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB27-596.3	SVOA	Carbazole	J	High continuing calibration %D.
W18STMGP-SB27-596.3	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB317.17.7	VOA	Toluene	J	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	VOA	Tetrachloroethene	J	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	VOA	Ethylbenzene	J	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	VOA	m/p-Xylenes	J	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	VOA	o-Xylenes	J	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	VOA	All Remaining Non-Detected Compounds	UJ	Analyzed 1 day past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Naphthalene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	2-Methylnaphthalene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Acenaphthene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Phenanthrene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Anthracene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Fluoranthene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Pyrene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Benzo(a)anthracene	J	Extracted 2 days past method-defined holding time expiration.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB317.17.7	SVOA	Chrysene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Benzo(b)fluoranthene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Benzo(k)fluoranthene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Benzo(a)pyrene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Indeno(1,2,3-cd)pyrene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	Benzo(g,h,i)perylene	J	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB317.17.7	SVOA	All Non-Detected Analytes	UJ	Extracted 2 days past method-defined holding time expiration.
W18STMGP-SB34-20.521	SVOA	Benzo(b)fluoranthene	J	Low internal standard recovery. High initial calibration %RSD.
W18STMGP-SB34-20.521	SVOA	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-SB34-20.521	SVOA	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-SB34-20.521	SVOA	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-SB34-20.521	SVOA	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-SB34-20.521	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB34-20.521	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D. Low MS/MSD recoveries.
W18STMGP-SB34-20.521	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-SB34-20.521	SVOA	Benzo(g,h,i)perylene	J	Low internal standard recovery. High continuing calibration %D.
W18STMGP-SB34-20.521	Metals	Mercury	J	High CRDL standard recovery.
W18STMGP-SB34-20.521RE	SVOA	Benzo(b)fluoranthene	J	Low internal standard recovery. High initial calibration %RSD.
W18STMGP-SB34-20.521RE	SVOA	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-SB34-20.521RE	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB34-20.521RE	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB34-20.521RE	SVOA	Benzo(g,h,i)perylene	J	Low internal standard recovery. High continuing calibration %D.
W18STMGP-SB34-28.529	VOA	Acetone	J	High initial calibration %RSD.
W18STMGP-SB34-28.529	Metals	Mercury	J	High CRDL standard recovery.
W18STMGP-SB39-23.0	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB39-23.0	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB39-23.0	SVOA	4-Nitrophenol	J	High continuing calibration %D.
W18STMGP-SB39-23.0	SVOA	Carbazole	J	High continuing calibration %D.
W18STMGP-SB39-23.0	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB39-7.58.0	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB39-7.58.0	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB39-7.58.0	SVOA	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	Benzo(a)anthracene	J	High MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	Benzo(a)pyrene	J	Low MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-SB39-7.58.0	SVOA	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-SB40B-3335	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18STMGP-SB40B-3335	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB40B-3537	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-SB40B-3537	SVOA	Benzo(b)fluoranthene	J	High continuing calibration %D.
W18STMGP-SB40B-3537	SVOA	Dibenz(a,h)anthracene	J	High continuing calibration %D.
W18STMGP-SB40B-3537DL	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGPSB40B-3537DL	SVOA	Benzo(b)fluoranthene	J	High continuing calibration %D.
W18STMGP-SB40B-4143	VOA	Isopropylbenzene	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	1,1,2,2-Tetrachloroethane	R	Internal standard response < 25% of 12-hour standard.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB40B-4143	VOA	1,3-Dichlorobenzene	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	1,4-Dichlorobenzene	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	1,2-Dichlorobenzene	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	1,2-Dibromo-3-chloropropane	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	1,2,4-Trichlorobenzene	R	Internal standard response < 25% of 12-hour standard.
W18STMGP-SB40B-4143	VOA	All Remaining Non-Detected Analytes	UJ	Low internal standard response.
W18STMGP-SB40B-4143RE	VOA	All Analytes	UJ	Low internal standard response.
W18STMGP-SB40B-4143	SVOA	Phenanthrene	J	High continuing calibration %D.
W18STMGP-SB43-23.023.5	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB43-23.023.5	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB43-6-8	VOA	Tetrachloroethene	J	High continuing calibration %D.
W18STMGP-SB43-6-8	SVOA	Benzo(b)fluoranthene	R	Internal standard area count < 25% of 12-hour standard. High initial calibration %RSD.
W18STMGP-SB43-6-8	SVOA	Benzo(k)fluoranthene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8	SVOA	Benzo(a)pyrene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8	SVOA	Dibenz(a,h)anthracene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8	SVOA	Benzo(g,h,i)perylene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8	Metals	Lead	J	Low CRDL standard recovery.
W18STMGP-SB43-6-8	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-SB43-6-8RE	SVOA	Caprolactam	R	Continuing calibration RRF < 0.050.
W18STMGP-SB43-6-8RE	SVOA	Benzo(b)fluoranthene	R	Internal standard area count < 25% of 12-hour standard. High continuing calibration %D.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB43-6-8RE	SVOA	Benzo(k)fluoranthene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8RE	SVOA	Benzo(a)pyrene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8RE	SVOA	Dibenz(a,h)anthracene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-6-8RE	SVOA	Benzo(g,h,i)perylene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-7.07.5	VOA	Carbon disulfide	J	High initial calibration %RSD.
W18STMGP-SB43-7.07.5	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.
W18STMGP-SB43-8-10	VOA	Tetrachloroethene	J	High continuing calibration %D.
W18STMGP-SB43-8-10	SVOA	Benzaldehyde	J	High initial calibration %RSD.
W18STMGP-SB43-8-10	SVOA	Benzo(b)fluoranthene	J	Low internal standard recovery. High initial calibration %RSD.
W18STMGP-SB43-8-10	SVOA	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-SB43-8-10	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB43-8-10	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-SB43-8-10	SVOA	Benzo(g,h,i)perylene	J	Low internal standard recovery.
W18STMGP-SB43-8-10	Metals	Lead	J	Low CRDL standard recovery.
W18STMGP-SB43-8-10	Metals	Mercury	J	Low CRDL standard recovery.
W18STMGP-SB43-8-10RE	SVOA	Caprolactam	R	Continuing calibration RRF < 0.050.
W18STMGP-SB43-8-10RE	SVOA	Benzo(b)fluoranthene	R	Internal standard area count < 25% of 12-hour standard. High continuing calibration %D.
W18STMGP-SB43-8-10RE	SVOA	Benzo(k)fluoranthene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-8-10RE	SVOA	Benzo(a)pyrene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-8-10RE	SVOA	Dibenz(a,h)anthracene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB43-8-10RE	SVOA	Benzo(g,h,i)perylene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB44-0810	VOA	Acetone	J	High initial calibration %RSD.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB44-0810	VOA	Methylcyclohexane	J	High initial calibration %RSD.
W18STMGP-SB44-0810	SVOA	Acetophenone	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Nitrobenzene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Isophorone	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	2-Nitrophenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Naphthalene	J	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	4-Chloroaniline	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Caprolactam	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	2-Methylnaphthalene	J	Low internal standard recovery.
W18STMGP-SB44-0810	SVOA	Benzo(b)fluoranthene	J	High initial calibration %RSD.
W18STMGP-SB44-0810	Metals	Mercury	J	High CRDL standard recovery.
W18STMGP-SB44-0810	Cyanide	Cyanide	R	Holding time exceeded by 3 days.
W18STMGP-SB44-0810	Cyanide	Cyanide-Amenable	R	Holding time exceeded by 4 days.
W18STMGP-SB44-0810RE	SVOA	Acetophenone	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Nitrobenzene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Isophorone	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	2-Nitrophenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Naphthalene	J	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	4-Chloroaniline	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Caprolactam	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	2-Methylnaphthalene	J	Low internal standard recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB44-0810RE	SVOA	Benzo(b)fluoranthene	J	Low internal standard recovery. High initial calibration %RSD.
W18STMGP-SB44-0810RE	SVOA	Benzo(k)fluoranthene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-SB44-0810RE	SVOA	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.
W18STMGP-SB44-6.0-8.0	SVOA	bis(2-Ethylhexyl)phthalate	J	High continuing calibration %D.
W18STMGP-SB44-6.0-8.0	SVOA	Benzo(b)fluoranthene	J	High initial calibration %RSD. Internal standard area < 25% of 12-hour standard.
W18STMGP-SB44-6.0-8.0	SVOA	Benzo(k)fluoranthene	J	Internal standard < 25% of 12-hour standard.
W18STMGP-SB44-6.0-8.0	SVOA	Benzo(a)pyrene	J	Internal standard < 25% of 12-hour standard.
W18STMGP-SB44-6.0-8.0	SVOA	Dibenz(a,h)anthracene	R	Internal standard < 25% of 12-hour standard.
W18STMGP-SB44-6.0-8.0	SVOA	Benzo(g,h,i)perylene	R	Internal standard < 25% of 12-hour standard.
W18STMGP-SB44-6.0-8.0	Metals	Mercury	J	High CRDL standard recovery.
W18STMGP-SB44-6.0-8.0	Cyanide	Cyanide	R	Holding time exceeded by 3 days.
W18STMGP-SB44-6.0-8.0	Cyanide	Cyanide-Amenable	R	Holding time exceeded by 4 days.
W18STMGP-SB44-6.0-8.0RE	SVOA	4-Nitrophenol	R	Continuing calibration %D is greater than 90%.
W18STMGP-SB44-6.0-8.0RE	SVOA	Benzo(b)fluoranthene	J	Low internal standard recovery. High initial calibration %RSD.
W18STMGP-SB44-6.0-8.0RE	SVOA	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-SB44-6.0-8.0RE	SVOA	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-SB44-6.0-8.0RE	SVOA	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-SB44-6.0-8.0RE	SVOA	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.
W18STMGP-SB45-31.532.0	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-SB45-31.532.0	VOA	Cyclohexane	J	High initial calibration %RSD.
W18STMGP-SB45-31.532.0	SVOA	4-Nitrophenol	J	High continuing calibration %D.
W18STMGP-SB45-31.532.0	SVOA	Carbazole	J	High continuing calibration %D.
W18STMGP-SB45-31.532.0	SVOA	Indeno(1,2,3-cd)pyrene	J	High continuing calibration %D.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB45-7.07.5	VOA	Methylene chloride	J	High initial calibration %RSD.
W18STMGP-WCOMP-072104	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-WCOMP-8-10-04	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1016	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1221	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1232	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1242	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1248	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1254	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-10-04	PCBs	Aroclor 1260	UJ	Extracted 1 day past holding time.
W18STMGP-WCOMP-8-11-04	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-WCOMP-8-12-04	TCLP Metals	Lead	J	Low CRDL standard recovery.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Vinyl chloride	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	1,1-Dichloroethene	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	2-Butanone	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Chloroform	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Carbon tetrachloride	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Benzene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	1,2-Dichloroethane	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Trichloroethene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Tetrachloroethene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04	TCLP VOA	Chlorobenzene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Vinyl chloride	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	1,1-Dichloroethene	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	2-Butanone	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Chloroform	UJ	Low internal standard area counts. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Carbon tetrachloride	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Benzene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	1,2-Dichloroethane	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Trichloroethene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Tetrachloroethene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-8-12-04RE	TCLP VOA	Chlorobenzene	R	Internal standard area count < 25% of 12-hour standard. Low surrogate recoveries.
W18STMGP-WCOMP-83004	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18STMGP-WCOMP-83104	TCLP SVOA	2-Methylphenol	J	Low surrogate recovery.
W18STMGP-WCOMP-83104	TCLP SVOA	3/4-Methylphenols	J	Low surrogate recovery.
W18STMGP-WCOMP-83104	TCLP Metals	Lead	UJ	Low CRDL standard recovery.
W18ST-SB10-5	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-SB10-5	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB10-5DL	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-SB10-5DL	SVOA	2-Chlorophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2-Methylphenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	3/4-Methylphenols	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2-Nitrophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2,4-Dimethylphenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2,4-Dichlorophenol	UJ	Low surrogate recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-SB10-5DL	SVOA	4-Chloro-3-methylphenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2,4,6-Trichlorophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2,4,5-Trichlorophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	2,4-Dinitrophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	4-Nitrophenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	4,6-Dinitro-2-methylphenol	UJ	Low surrogate recoveries.
W18ST-SB10-5DL	SVOA	Pentachlorophenol	UJ	Low surrogate recoveries.
W18ST-SB11-6	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-SB11-6	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB11-6	Metals	Antimony	UJ	Low MS/MSD recoveries.
W18ST-SB11-6	Metals	Copper	J	Low MS/MSD recoveries.
W18ST-SB11-6	Metals	Lead	J	Low MS/MSD recoveries.
W18ST-SB11-6	Metals	Mercury	J	Low MS/MSD recoveries. High serial dilution %D.
W18ST-SB11-6DL	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-SB12-15-17	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18ST-SB12-15-17	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB12-25-27	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18ST-SB12-25-27	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB12-5-7	VOA	Acetone	J	High initial calibration %RSD.
W18ST-SB12-5-7	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB12-7-9	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D. Low surrogate recovery.
W18ST-SB12-7-9	VOA	Carbon disulfide	J	Low surrogate recovery.
W18ST-SB12-7-9	VOA	Toluene	J	Low surrogate recovery.
W18ST-SB12-7-9	VOA	m/p-Xylenes	J	Low surrogate recovery.
W18ST-SB12-7-9	VOA	o-Xylene	J	Low surrogate recovery.
W18ST-SB12-7-9	VOA	All Non-Detected Analytes	UJ	Low surrogate recovery.
W18ST-SB12-7-9	SVOA	4-Nitrophenol	R	Initial calibration %RSD > 90%.
W18ST-SB12-7-9	SVOA	Indeno(1,2,3-cd)pyrene	J	High initial calibration %RSD.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-SB12-7-9	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB12-7-9RE	VOA	Carbon disulfide	J	Low surrogate recovery.
W18ST-SB12-7-9RE	VOA	All Non-Detected Analytes	UJ	Low surrogate recovery.
W18ST-SB14-5	SVOA	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18ST-SB14-5	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-SB14-5	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB14-5	Metals	Mercury	J	High serial dilution %D.
W18ST-SB14-5	Herbicides	2,4-D	UJ	Low MS/MSD recoveries.
W18ST-SB14-5	Herbicides	2,4,5-T	UJ	Low MS/MSD recoveries.
W18ST-SB9-4	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18ST-SB9-4	Metals	Arsenic	J	High CRDL standard recovery.
W18ST-SB9-4	SVOA	Benzo(k)fluoranthene	J	High initial calibration %RSD.
W18ST-TP2-10-11	VOA	Acetone	J	High initial calibration %RSD. High continuing calibration %D.
W18ST-TP2-10-11	VOA	Methyl tert-butyl ether	J	High continuing calibration %D.
W18ST-TP2-10-11	Metals	Arsenic	J	High CRDL standard recovery.

Data Qualifier Definitions:

J Estimated data. The reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.
R Rejected data.
U The analyte was not detected.
UJ The analyte was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.

Acronym Definitions:

CRDL Contract Required Detection Limit
%D Percent Difference
LCS Laboratory Control Sample
MS Matrix Spike
MSD Duplicate Matrix Spike
SVOA Semivolatile Organic Analytes
PDS Post-Digestion Spike
RPD Relative Percent Difference
RRF Relative Response Factor
%RSD Percent Relative Standard Deviation
SDG Sample Delivery Group
VOA Volatile Organic Analytes

Table 3: Soil Samples Analyzed for Volatile Organic Analytes More Than 10 Days After Collection

Sample	Days Between Collection and Analysis
W18STMGP-B52-1113	12
W18STMGP-B52-2729	14
W18STMGP-B52-3335	12
W18STMGP-B52-3335DL	13
W18STMGP-TP3-7.5	12
W18STMGP-B19-57	11
W18STMGP-B19-1719	13
W18STMGP-B20-911	11
W18STMGP-TP6-9.5	11
W18STMGP-B20-1315	13
W18STMGP-B20-1920	12
W18STMGP-B20-4143	12
W18STMGP-B61-4143	12
W18STMGP-B20-4951	12
W18STMGP-B47-79	11
W18STMGP-B47-1315	11
W18STMGP-B47-1719	11
W18STMGP-B47-1719DL	12
W18STMGP-B48-79	11
W18STMGP-B48-1516	12
W18STMGP-B48-1921	11
W18STMGP-B48-1921DL	12
W18STMGP-B48-1921DL2	12
W18STMGP-B32-1113	11
W18STMGP-B32-2123	11
W18STMGP-B32-2123RE	13
W18STMGPSB317.17.7	15
W18STMGPSB136.06.5	13
W18STMGP-SB44-0810	13
W18STMGP-SB44-6.0-8.0	12
W18STMGP-B15-56DL	13
W18STMGP-B15-1719DL	12
W18STMGP-B15-2325	12
W18STMGP-B24-8284	11

Note: All positive results are flagged with “J” qualifiers and all non-detected results are flagged with “UJ” qualifiers in the samples listed in this table. These qualifications are not listed in Table 2.

Data Assessment Narrative

1.0 Introduction

TRC Quality Assurance (QA) staff reviewed data between July 13 and July 26, 2005. Thirteen sample delivery groups (SDGs) were reviewed. A total of one hundred sixteen sample analyses were reviewed. Chemtech in Mountainside, New Jersey generated the analytical data. Table 1 presents a listing of these samples, their collection dates and times, analytical methods used to generate data, and associated laboratory identifiers.

2.0 Review Criteria

The data review criteria used for this assessment are the values given in the following United States Environmental Protection Agency, Region II documents:

- Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999, *Validating Volatile Organic Compounds by SW-846 Method 8260B*
- SOP Number HW-22, Revision 2, June 2001, *Validating Semivolatile Organic Compounds by SW-846 Method 8270*
- SOP Number 23B, Revision 1.0, May 2002, *Validating PCB Compounds by SW-846 Method 8082*
- SOP Number HW-2, Revision 11, January 1992, *Evaluation of Metals Data for the CLP Program*

Items reviewed during the assessment process for volatile organic, semivolatile organic, polychlorinated biphenyl (PCB), pesticide, and herbicide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Recoveries and Retention Times
- Laboratory Control Sample (LCS) Results
- Sample Quantitation and Reported Quantitation Limits
- Target Compound Identification

Items reviewed during the assessment process for metals data and cyanide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Detection Limit Standards

- Blanks
- Interference Check Samples
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Duplicate Results
- Serial Dilutions

Qualified sample data are listed Table 2.

3.0 Data Review/Validation Results

3.1 Data Completeness

All requirements for full raw data reporting are met for the reported data packages. That is, the data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables, as requested on chain-of-custody forms.

3.2 Preservation and Holding Times

3.2.1 Volatile Organic Analyses

Volatile GC/MS analyses of several soil samples occurred more than 10 days after sample collection. The affected samples are presented in Table 3. Most analyses occurred within the method-defined holding time of 14 days but outside the United States Environmental Protection Agency (USEPA) Region II holding time (defined in SOP No. HW-24) of 10 days.

Sample W18STMGP-SB3-3.03.5 was collected on April 29, 2005 and analyzed for volatile organic compounds on May 31, 2005. This translates into 32 days between collection and analysis. Per USEPA Region 2 requirements, the reported concentration of acetone is flagged with a "J" qualifier and all remaining non-detected compounds are flagged with "R" qualifiers.

Sample W18STMGP-SB6-1315DL was collected on May 12, 2005 and analyzed for volatile organic compounds on May 29, 2005. This translates into 17 days between collection and analysis. Per USEPA Region 2 requirements, reported concentrations of methylcyclohexane, benzene, toluene, ethylbenzene, m/p-xylenes, o-xylene, and isopropylbenzene are flagged with "J" qualifiers and all remaining non-detected compounds are flagged with "UJ" qualifiers.

3.2.2 Semivolatile Organic Analyses

All criteria are met.

3.2.3 Cyanide Analyses

Sample W18STMGP-SB4-5.05.5 was collected on May 3, 2005 and analyzed for amenable cyanide on May 18, 2005. The fifteen days between collection and analysis is greater

than USEPA Region 2 holding time of fourteen days. The reported concentration of amenable cyanide in this sample is, therefore, flagged with a "J" qualifier.

Sample W18STMGP-SB5A-2628 was collected on May 3, 2005 and analyzed for amenable cyanide on May 18, 2005. The fifteen days between collection and analysis is greater than USEPA Region 2 holding time of fourteen days. The non-detected result amenable cyanide in this sample is also flagged with a "UJ" qualifier.

Sample W18STMGP-SB1-5.05.5 was collected on May 3, 2005 and analyzed for amenable cyanide on May 18, 2005. The fifteen days between collection and analysis is greater than USEPA Region 2 holding time of fourteen days. The non-detected result amenable cyanide in this sample is also flagged with a "UJ" qualifier.

Sample SB5A(31-33) was collected on May 3, 2005 and analyzed for amenable cyanide on May 18, 2005. The fifteen days between collection and analysis is greater than USEPA Region 2 holding time of fourteen days. The non-detected result amenable cyanide in this sample is also flagged with a "UJ" qualifier.

3.2.4 Pesticide Analyses

All criteria are met.

3.2.5 PCB Analyses

All criteria are met.

3.2.6 Herbicide Analyses

All criteria are met.

3.2.7 Metals Analyses

All criteria are met.

3.3 GC/MS Tunes

All USEPA Region II criteria are met for volatile and semivolatile organic analyses.

3.4 Initial and Continuing Calibrations

3.4.1 Volatile Organic Analyses

Percent relative standard deviation (%RSD) values for several compounds are greater than 15% in the initial calibration analyzed on August 14, 2004 from 18:00 to 20:23. Detected concentrations of methylcyclohexane in sample W18STMGP-SB08-11.011.5 and acetone in sample W18STMGP-SB0814.5-15.0 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 1, 2004 from 21:28 to 23:02. Detected concentrations of acetone and

methylene chloride in samples W18STMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B9-2628, W18STMGP-B9-3234, W18STMGP-B11-1315, W18STMGP-B11-2729, W18STMGP-B11-3739, and W18STMGP-B11-3537 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 10, 2004 from 11:43 to 14:38. Detected concentrations of cyclohexane in samples W18STMGP-B10-68 and W18STMGP-B10-810 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 17, 2004 from 20:19 to 22:18. Detected concentrations of acetone and styrene in sample W18STMGP-B30-2224, W18STMGP-B30-2224DL, and W18STMGP-B30-2426DL are flagged with "J" qualifiers.

Percent difference (%D) values for several analytes in the continuing calibration analyzed on September 27, 2004 at 11:14 are greater than twenty percent. Detected concentrations of acetone and carbon disulfide in samples W18STMGP-B9-810, W18STMGP-B9-2628, W18STMGP-B9-3234, and W18STMGP-B11-1315 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on September 30, 2004 at 05:58 are greater than twenty percent. Detected concentrations of acetone and methyl tert-butyl ether in sample W18STMGP-B11-3537 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on October 4, 2004 from 09:59 to 12:19. Detected concentrations of acetone, carbon disulfide, methyl acetate, methylene chloride, and m/p-xylenes in samples W18STMGP-B14A-2325, W18STMGP-B31-2123, W18STMGP-B30-2426, W18STMGP-B13A-2527, W18STMGP-B13-2527, W18STMGP-B13-2729, W18STMGP-B31-2527, W18STMGP-B30-1012, and W18STMGP-SB30-8486 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 7, 2004 at 19:09 are greater than twenty percent. The detected concentration of acetone in sample W18STMGP-B14A-2325 is flagged with a "J" qualifier.

%D values for several analytes in the continuing calibration analyzed on October 14, 2004 at 14:18 are greater than twenty percent. Detected concentrations of acetone, methyl acetate, and methylene chloride in samples W18STMGP-B31-2123, W18STMGP-B30-2426, and W18STMGP-B13A-2527 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 14, 2004 at 20:08 are greater than twenty percent. Detected concentrations of acetone and methylene chloride in sample W18STMGP-B30-2224 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 15, 2004 at 09:55 are greater than twenty percent. Detected concentrations of carbon disulfide and methylene chloride in samples W18STMGP-B13-2527 and W18STMGP-B13-2729 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 15, 2004 at 22:10 are greater than twenty percent. Detected concentrations of acetone in samples W18STMGP-B31-2527, W18STMGP-B30-2224DL, and W18STMGP-B30-2426DL are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 18, 2004 at 23:31 are greater than twenty percent. Detected concentrations of acetone, methylene chloride, and isopropylbenzene in sample W18STMGP-B30-1012 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on November 7, 2004 at 23:31 are greater than twenty percent. The detected concentration of acetone in sample W18STMGP-SB30-8486 is flagged with a "J" qualifier.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on November 11, 2004 from 20:55 to 22:34. Detected concentrations of acetone and methylene chloride in samples W18STMGP-SB30-2830, W18STMGP-SB66-8486, W18STMGP-SB29-1113, W18STMGP-SB29-3436, W18STMGP-SB29-3839, W18STMGP-SB29-4850, W18STMGP-SB71-4850, and W18STMGP-SB29-1113RE are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on November 12, 2004 at 16:12 are greater than twenty percent. Detected concentrations of acetone in samples W18STMGP-SB66-8486 and W18STMGP-SB30-2830 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on November 19, 2004 at 15:20 are greater than twenty percent. The detected concentration of tetrachloroethene in sample W18STMGP-SB29-1113RE is flagged with a "J" qualifier.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on March 11, 2005 from 16:51 to 19:38. Detected concentrations of methylene chloride in samples W18STMGP-GP1R-67, W18STMGP-GP2-34, W18STMGP-GP2-56, W18STMGP-GP2-910, W18STMGP-GP2-1921, W18STMGP-GP3-23, W18STMGP-GP3-56, W18STMGP-GP3-89, W18STMGP-GP3-1920, and W18STMGP-GP13-23 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on April 20, 2005 from 13:58 to 16:27. Detected concentrations of acetone and methylene chloride in samples W18STMGP-RB-5 and TRIPBLANK are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on April 21, 2005 from 18:29 to 20:33. Detected concentrations of acetone in samples W18STMGP-SB4-5.05.5, W18STMGP-SB5A-2628, W18STMGP-SB1-5.05.5, W18STMGP-TP1B-1.01.5, W18STMGP-TP21B-1.01.5, W18STMGP-TP21B-1.01.5RE, W18STMGP-SB4-79, SB-5A(31-33), W18STMGP-SB3-17-19, W18STMGP-SB2-5-7, W18STMGP-SB2-13-15, W18STMGP-SB4-9-13, W18STMGP-SB4-17-19, W18STMGP-SB3-5-7, W18STMGP-SB6-1012, W18STMGP-SB6-2426, and W18STMGP-SB6-28.530.5 are flagged with "J" qualifiers.

The %D value for acetone in the continuing calibration analyzed on May 10, 2005 at 14:32 is slightly greater than twenty percent. The detected concentration of acetone in sample TRIPBLANK is flagged with a "J" qualifier.

%D values for several analytes in the continuing calibration analyzed on May 11, 2005 at 20:01 are greater than twenty percent. Detected concentrations of acetone in samples W18STMGP-SB5A-2628 and W18STMGP-SB1-5.05.5 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 12, 2005 at 22:19 are greater than twenty percent. Detected concentrations of acetone, methyl tert-butyl ether, and 2-butanone in samples W18STMGP-TP21B-1.01.5, W18STMGP-SB3-17-19, W18STMGP-SB2-5-7, W18STMGP-SB2-13-15, W18STMGP-SB4-9-13, and W18STMGP-SB4-17-19 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 16, 2005 at 14:14 are greater than twenty percent. Detected concentrations of acetone in samples W18STMGP-SB4-5.05.5, W18STMGP-TP1B-1.01.5, W18STMGP-TP21B-1.01.5RE, and SB-5A(31-33) are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 17, 2005 at 03:09 are greater than twenty percent. The detected concentration of acetone in sample W18STMGP-SB3-5-7 is flagged with a "J" qualifier.

%D values for several analytes in the continuing calibration analyzed on May 19, 2005 at 04:10 are greater than twenty percent. The detected concentrations of acetone and methylene chloride in samples W18STMGP-SB3-3.03.5 and W18STMGP-SB4-79 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 19, 2005 at 17:12 are greater than twenty percent. Detected concentrations of acetone in samples W18STMGP-SB6-1012, W18STMGP-SB6-2426, and W18STMGP-SB6-28.530.5 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on May 23, 2005 from 20:06 to 22:11. Detected concentrations of acetone in samples W18STMGP-SB4-79, W18STMGP-SB6-1921, and W18STMGP-SB6-2426 are flagged with "J" qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on May 27, 2005 from 14:58 to 16:36. The detected concentration of ethylbenzene in sample W18STMGP-SB6-1315DL is flagged with a "J" qualifier.

%D values for several analytes in the continuing calibration analyzed on May 31, 2005 at 19:03 are greater than twenty percent. The detected concentration of acetone in sample W18STMGP-SB3-3.03.5 is flagged with a "J" qualifier.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on June 9, 2005 from 18:33 to 20:38. Detected concentrations of acetone and methylene chloride in samples W18STMGP-MW5B-3436 and W18STMGP-MW55B-3436 are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on June 13, 2005 at 01:28 are greater than twenty percent. Detected concentrations of acetone and methylene chloride in samples W18STMGP-MW5B-3436 and W18STMGP-MW55B-3436 are flagged with a "J" qualifier.

3.4.2 Semivolatile Organic Analyses

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 11, 2004 from 13:42 to 16:52. The detected concentration of pyrene in sample W18STMGP-SB08-11.011.5 is flagged with a "J" qualifier.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on August 25, 2004 from 10:18 to 11:53. Detected concentrations of benzo(k)fluoranthene in samples W18STMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B10-68, and W18STMGP-B1068DL are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibration analyzed on September 25, 2004 at 20:22 are greater than twenty percent. Detected concentrations of 2-methylnaphthalene in samples W18STMGP-B9-2022DL, W18STMGP-B9-2022DL2, W18STMGP-B10-68DL,

W18STMGP-B11-2729DL, W18STMGP-B11-2729DL2, and W18STMGP-B11-2729DL3 are flagged with “J” qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on September 27, 2004 from 12:23 to 15:15. Detected concentrations of 2-methylnaphthalene and fluorene in samples W18STMGP-B31-2123, W18STMGP-B30-1012, W18STMGP-B30-1012DL, W18STMGP-B30-2224, and W18STMGP-B30-2224DL are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 15, 2004 at 15:06 are greater than twenty percent. Detected concentrations of 1,1-biphenyl and dibenzofuran are flagged with “J” qualifiers in sample W18STMGP-B31-2123. Non-detected results for hexachlorocyclopentadiene in samples W18STMGP-B31-2123 and W18STMGP-B13A-2527 are flagged with “R” qualifiers since the %D is greater than 90% in the continuing calibration.

%D values for several analytes in the continuing calibration analyzed on October 16, 2004 at 02:33 are greater than twenty percent. Detected concentrations of 2-methylnaphthalene, phenanthrene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene in samples W18STMGP-B30-1012, W18STMGP-B30-2224 are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 17, 2004 at 12:36 are greater than twenty percent. Detected concentrations of dibenzofuran, 2-methylnaphthalene, and acenaphthylene in samples W18STMGP-B30-1012Dl and W18STMGP-B30-2224DL are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on October 17, 2004 at 23:51 are greater than twenty percent. The detected concentration of bis(2-ethylhexyl)phthalate in sample W18STMGP-SB08-11.011.5DL is flagged with a “J” qualifier.

%D values for several analytes in the continuing calibration analyzed on November 11, 2004 at 18:46 are greater than twenty percent. The detected concentration of bis(2-ethylhexyl)phthalate in sample W18STMGP-RB10-110704 is flagged with a “J” qualifier.

%D values for several analytes in the continuing calibration analyzed on November 14, 2004 at 15:15 are greater than twenty percent. Detected concentrations of bis(2-ethylhexyl)phthalate in samples W18STMGP-SB29-3839, W18STMGP-SB29-4850, and W18STMGP-SB71-4850 are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on November 15, 2004 at 02:08 are greater than twenty percent. Detected concentrations of bis(2-

ethylhexyl)phthalate in samples W18STMGP-SB29-1113 and W18STMGP-SB29-3436 are flagged with “J” qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on March 22, 2005 from 15:11 to 17:00. Detected concentrations of benzo(b)fluoranthene in samples W18STMGP-GP1R-67, W18STMGP-GP1R-67DL, W18STMGP-GP2-34, W18STMGP-GP2-56, W18STMGP-GP2-56DL, W18STMGP-GP2-1921, W18STMGP-GP3-23, W18STMGP-GP3-23DL, W18STMGP-GP13-23, W18STMGP-GP13-23DL, and W18STMGP-GP3-56 are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on March 29, 2005 at 16:09 are greater than twenty percent. Detected concentrations of benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene in samples W18STMGP-GP1R-67, W18STMGP-GP1R-67DL, W18STMGP-GP2-34, W18STMGP-GP2-56, W18STMGP-GP2-56DL, W18STMGP-GP2-1921, W18STMGP-GP3-23, W18STMGP-GP3-23DL, W18STMGP-GP13-23, W18STMGP-GP13-23DL, and W18STMGP-GP3-56 are flagged with “J” qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on April 22, 2005 from 19:09 to 21:58. Detected concentrations of fluorene in samples W18STMGP-SB5B-1112 and W18STMGP-SB2-1.01.5 are flagged with “J” qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on April 26, 2005 from 21:03 to 23:47. Detected concentrations of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene in samples W18STMGP-SB4-5.05.5, W18STMGP-TP1B-1.01.5, W18STMGP-TP21B-1.01.5, W18STMGP-SB4-1921, W18STMGP-SB4-1921DL, W18STMGP-SB4-1921DL2 are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 11, 2005 at 08:05 are greater than twenty percent and the %D value for 2,2-oxybis(1-chloropropane) is greater than 90%. Detected concentrations of phenanthrene, fluorene, and benzo(b)fluoranthene in samples W18STMGP-SB5B-1112 and W18STMGP-SB2-1.01.5 are flagged with “J” qualifiers. Non-detected concentrations of 2,2-oxybis(1-chloropropane) in samples W18STMGP-SB5B-1112, W18STMGP-SB2-1.01.5, and W18STMGP-SB5A-1719 are flagged with “R” qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 11, 2005 at 17:10 are greater than twenty percent. Additionally, the %D value for 4,6-dinitro-2-methylphenol is greater than 90% and its response factor is less than 0.050. Non-detected concentrations of 4,6-dinitro-2-methylphenol in samples W18STMGP-SB6-1012, W18STMGP-

SB6-1315, W18STMGP-SB6-1921, W18STMGP-SB6-2426, and W18STMGP-SB66-2426 are flagged with “R” qualifiers.

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on May 11, 2005 from 17:05 to 19:55. Detected concentrations of naphthalene and fluorene in samples W18STMGP-SB2-1.01.5RE and W18STMGP-SB5B-1112DL are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 13, 2005 at 16:55 are greater than twenty percent. Detected concentrations of naphthalene in samples W18STMGP-SB2-1.01.5RE and W18STMGP-SB5B-1112DL are flagged with “J” qualifiers.

%D values for several analytes in the continuing calibration analyzed on May 13, 2005 at 02:21 are greater than twenty percent. The detected concentration of anthracene in sample W18STMGP-SB2-19-20.5DL is flagged with a “J” qualifier.

The %D value for 4,6-dinitro-2-methylphenol is greater than 90% and the response factor is less than 0.050 in the continuing calibration analyzed on May 16, 2005 at 17:10. Non-detected concentrations of for 4,6-dinitro-2-methylphenol in samples W18STMGP-SB4-79 and W18STMGP-SB4-1921 are flagged with “R” qualifiers. Additionally, because %D values for several other analytes are greater than twenty percent in this continuing calibration, reported concentrations of benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with “J” qualifiers in sample W18STMGP-SB4-1921.

%D values for several analytes in the continuing calibration analyzed on May 18, 2005 at 05:46 are greater than twenty percent. Detected concentrations of anthracene in samples W18STMGP-SB4-1921DL and W18STMGP-SB4-1921DL2 are flagged with a “J” qualifier.

3.4.3 Cyanide Analyses

Cyanide recoveries in continuing calibration verification (CCV) analyses bracketing the samples reported in Project Number S4100 are less than USEPA Region 2 limits. The detected concentration of cyanide in sample W18STMGP-SB08-11.011.5 is flagged with a “J” qualifier. Non-detected results for cyanide and cyanide-amenable in samples W18STMGP-SB08-11.011.5 and W18STMGP-SB0814.5-15.0 are flagged with “UJ” qualifiers.

3.4.4 Pesticide Analyses

All criteria are met.

3.4.5 PCB Analyses

All criteria are met.

3.4.6 Herbicide Analyses

All criteria are met.

3.4.7 Metals Analyses

All criteria are met.

3.5.1 Blanks

3.5.1 Volatile Organic Analyses

Acetone (30 µg/kg) and methylene chloride (3.2 µg/kg) were detected in the method blank identified as VBLK01 in ChemTech Project Number S4100. Reported concentrations of methylene chloride in associated samples W18STMGP-SB0814.5-15.0 and W18STMGP-SB08-11.011.5 are less than ten times the blank concentration and are flagged with "U" qualifiers. Acetone was not detected in associated field samples; therefore, acetone data were not qualified.

Acetone was detected (35 µg/kg) in the method blank identified as VBLK01 (VBK1014S2) in Project Number S5156. Reported concentrations acetone in associated samples W18STMGP-B31-2123, W18STMGP-B30-2426, and W18STMGP-B13A-2527 are less than ten times the blank concentration and are flagged with "J" qualifiers.

Acetone was detected (24 µg/kg) in the method blank identified as VBLK02 (VBK1015S2) in Project Number S5156. Reported concentrations acetone in associated samples W18STMGP-B13-2527 and W18STMGP-B13-2729 are less than ten times the blank concentration and are flagged with "J" qualifiers.

Acetone (23 µg/kg) and methylene chloride (8.0 µg/kg) were detected in the method blank identified as VBLK03 in Project Number S5156. Reported concentrations these compounds in associated sample W18STMGP-B31-2527 are less than ten times the blank concentration and are flagged with "J" qualifiers.

Acetone (18 µg/kg) and methylene chloride (2.0 µg/kg) were detected in the method blank identified as VBLK04 in Project Number S5156. Reported concentrations these compounds in associated sample W18STMGP-B30-1012 are less than ten times the blank concentration and are flagged with "J" qualifiers.

Methylene chloride was detected (7.9 µg/kg) in the method blank identified as VBLK01 in Project Number S5635. Reported concentrations of methylene chloride in samples W18STMGP-SB29-1113, W18STMGP-SB29-3436, W18STMGP-SB29-3839, and W18STMGP-SB29-4850 are flagged with "J" qualifiers.

Methylene chloride was detected (5.2 µg/kg) in the method blank identified as VBLK03 in Project Number S5635. Reported concentrations of methylene chloride in samples W18STMGP-SB29-1113RE and W18STMGP-SB71-4850 are flagged with "J" qualifiers.

Acetone was detected (10 µg/kg) in the method blank identified as VBLK02 in Project Number T2062. The reported concentration of acetone in sample W18STMGP-GP13-23 is flagged with a "J" qualifier.

Acetone was detected (9.1 µg/kg) in the method blank identified as VBLK01 in Project Number T2708. Reported concentrations of acetone in samples W18STMGP-SB5A-2628 and W18STMGP-SB1-5.05.5 are flagged with "J" qualifiers.

Acetone was detected (8.3 µg/kg) in the method blank identified as VBLK02 in Project Number T2708. The reported concentration of acetone in sample W18STMGP-TP21B-1.01.5 is flagged with a "J" qualifier.

Acetone (9.2 µg/kg) and methylene chloride (2.5 µg/kg) in the method blank identified as VBLK03 in Project Number T2708. Reported concentrations of acetone and methylene chloride in samples SB-5A(31-33), W18STMGP-TP1B-1.01.5, W18STMGP-SB4-5.05.5, W18STMGP-TP21B-1.01.5RE is flagged with a "J" qualifier.

Acetone (20 µg/kg) and methylene chloride (40 µg/kg) in the method blank identified as VBLK04 in Project Number T2708. Reported concentrations of these compounds in sample W18STMGP-SB4-79 are flagged with "J" qualifiers.

Methylene chloride was detected (1.3 µg/L) in the trip blank reported in Project Number T2708. Reported concentrations of methylene chloride in samples W18STMGP-TP1B-1.01.5, W18STMGP-TP21B-1.01.5, W18STMGP-TP21B-1.01.5RE and W18STMGP-SB4-79 are flagged with "J" qualifiers.

Acetone was detected (6.8 µg/L) in the trip blank reported in Project Number T2708. Reported concentrations of acetone in samples W18STMGP-SB5A-2628, W18STMGP-SB1-5.05.5, W18STMGP-TP1B-1.01.5, W18STMGP-TP21B-1.01.5, W18STMGP-TP21B-1.01.5RE and W18STMGP-SB4-79 are flagged with "J" qualifiers.

Acetone was detected (8.3 µg/kg) in the method blank identified as VBLK02 in Project Number T2749. Reported concentrations of acetone in samples W18STMGP-SB3-17-19, W18STMGP-SB2-5-7, W18STMGP-SB2-13-15, W18STMGP-SB4-9-13, and W18STMGP-SB4-17-19 are flagged with "J" qualifiers.

Acetone was detected (7.0 µg/kg) in the method blank identified as VBLK03 in Project Number T2749. The reported concentration of acetone in sample W18STMGP-SB3-5-7 is flagged with a "J" qualifier.

Acetone was detected (11 µg/kg) in the method blank identified as VBLK01 in Project Number T2823. Reported concentrations of acetone in samples W18STMGP-SB6-1012, W18STMGP-SB6-2426, and W18STMGP-SB6-28.530.5 are flagged with "J" qualifiers.

Acetone was detected (10 µg/kg) in the method blank identified as VBLK02 in Project Number T2823. Reported concentrations of acetone in samples W18STMGP-SB6-1921 and W18STMGP-SB66-2426 are flagged with "J" qualifiers.

Methylene chloride was detected (5.1 µg/kg) in the method blank identified as VBLK01 in Project Number T3189. The reported concentration of methylene chloride in sample W18STMGP-MW55B-3436 is flagged with a "J" qualifier.

3.5.2 Semivolatile Organic Analyses

bis(2-Ethylhexyl)phthalate was detected (4.1 µg/kg) in the method blank identified as SBLK01 in Project Number T2062. The reported concentration of bis(2-ethylhexyl)phthalate in sample W18STMGP-RB-32505 is flagged with a "J" qualifier.

bis(2-Ethylhexyl)phthalate was detected (2.4 µg/kg) in the method blank identified as SBLK01 in Project Number T2823. The reported concentration of bis(2-ethylhexyl)phthalate in sample W18STMGP-RB-5122005 is flagged with a "J" qualifier.

3.5.3 Cyanide Analyses

All criteria are met.

3.5.4 Pesticide Analyses

All criteria are met.

3.5.5 PCB Analyses

All criteria are met.

3.5.6 Herbicide Analyses

All criteria are met.

3.5.7 Metals Analyses

Beryllium was detected in the preparation blank reported in Project Number S4047. The reported concentrations of beryllium in associated samples W18STMGP-B07-1719, W18STMGP-B07-2729, and W18STMGP-B07-4345 are flagged with "J" qualifiers.

Thallium was detected in the preparation blank reported in Project Number S5012. Reported concentrations of thallium in samples W18STMGP-B14A-1113, W18STMGP-B14A-1719, and W18STMGP-B14A-2325 are flagged with "J" qualifiers.

Chromium (0.955 µg/L) is detected in the equipment rinsate blank reported in Project Number T2708. The reported concentration of chromium in sample W18STMGP-SB1-5.05.5 is less than ten times the equipment blank concentration and is flagged with a "J" qualifier.

3.6 Surrogate Recoveries

3.6.1 Volatile Organic Analyses

Recoveries of surrogate compounds 1,2-dichloroethane-d_4 and toluene-d_8 are greater than USEPA Region II-specified limits in the analysis of sample W18STMGP-B11-2729. Reported concentrations of methyl tert-butyl ether, methylcyclohexane, benzene, toluene, ethylbenzene, o-xylene, and isopropylbenzene are flagged with "J" qualifiers in this sample.

Recovery of 4-bromofluorobenzene is less than Region 2 control limits in sample W18STMGP-SB29-1113. Per guidance, recoveries of all non-detected compounds in this sample are flagged with "UJ" qualifiers and detected concentrations of methylene chloride, chloroform, benzene, trichloroethene, toluene, tetrachloroethene, m/p-xylenes, and o-xylene are flagged with "J" qualifiers. Similar data qualification was performed for sample W18STMGP-SB29-1113RE results for the same reason. The compounds flagged with "J" qualifiers (i.e., detected compounds) in sample W18STMGP-SB29-1113RE include methylene chloride, cis-1,2-dichloroethene, chloroform, benzene, trichloroethene, toluene, tetrachloroethene, and m/p-xylenes.

3.6.2 Semivolatile Organic Analyses

All criteria are met.

3.6.3 Pesticide Analyses

All criteria are met.

3.6.4 PCB Analyses

All criteria are met.

3.6.5 PCB Analyses

All criteria are met.

3.7 Matrix Spike/Matrix Spike Duplicates

Data are not qualified based on matrix spike (MS) and duplicate matrix spike (MSD) alone. MS/MSD recoveries were compared with associated LCS data. When LCS recoveries are compliant and MS/MSD recoveries fall outside applicable limits, matrix interferences are confirmed and data are qualified. Analyte specific trends were not evident from MS/MSD recoveries; therefore, data are qualified for the spiked sample only

3.7.1 Volatile Organic Analyses

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Benzene and toluene concentrations in the un-spiked analysis are more than four times the spiking concentration. Therefore, aberrant results for these analytes in the MS/MSD pair are not qualified.
- Recoveries of chlorobenzene are greater than laboratory-defined limits. Since chlorobenzene was not detected in the un-spiked analysis and the bias is high, data are not qualified.
- Recoveries of 1,1-dichloroethene are below laboratory-specified limits. The non-detected result for 1,1-dichloroethene in sample W18STMGP-B11-2729 is flagged a "UJ" qualifier.

Sample W18STMGP-SB29-4850 was analyzed as an MS/MSD pair. Recoveries of 1,1-dichloroethene, benzene, trichloroethene, and toluene are below laboratory-specified limits in the MSD analysis. Data are not qualified since all recoveries are within control limits in the associated MS analysis.

Sample W18STMGP-GP2-34 was analyzed as an MS/MSD pair. Recoveries for all analytes fall within laboratory-derived limits and data are not qualified based on these results.

Sample W18STMGP-TP1B-1.01.5 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of chlorobenzene are below laboratory-specified limits. The non-detected result for chlorobenzene in sample W18STMGP-TP1B-1.01.5 is flagged a "UJ" qualifier.

Sample W18STMGP-SB6-1012 was analyzed as an MS/MSD pair. Recoveries for all analytes fall within laboratory-derived limits and data are not qualified based on these results.

Sample W18STMGP-MW5B-3436 was analyzed as an MS/MSD pair. Recoveries for all analytes fall within laboratory-derived limits and data are not qualified based on these results.

3.7.2 Semivolatile Organic Analyses

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Naphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, and benzo(a)pyrene concentrations in the un-spiked

analysis are more than four times the spiking concentration. Therefore, aberrant results for these analytes in the un-spiked sample are not qualified.

- Recoveries of hexachloroethane, nitrobenzene, isophorone, 2-nitrophenol, and 4-nitrophenol are greater than laboratory-defined limits. Since these compounds were not detected in the un-spiked sample and the bias is high, data are not qualified.
- One of the two recoveries for 2-methylphenol, N-nitosodi-n-propylamine, ¾-methylphenols, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 4-chloroaniline, hexachlorobutadiene, 4-chloro-3-methylphenol, 1,1-biphenyl, N-nitrosodiphenyl-amine, and benzo(b)fluoranthene are within laboratory limits; therefore data are not qualified for these analytes.
- Both recoveries of 2,2-oxybis(1-chloropropane), 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, carbazole, and benzo(g,h,i)perylene are below laboratory-specified limits. The non-detected result for these analytes in sample W18STMGP-B11-2729 are flagged with "UJ" qualifiers and detected results are flagged with "J" qualifiers.
- Recoveries of 2,4-dichlorophenol in MS/MSD analyses are both greater than and less than laboratory-specified limits. The non-detected result for this compound in sample W18STMGP-B11-2729 is flagged with a "UJ" qualifier.
- Both recoveries of hexachlorobutadiene are zero percent. The non-detected result for hexachlorobutadiene in sample W18STMGP-B11-2729 is flagged with an "R" qualifier.

Sample W18STMGP-B14A-2325 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of 2-methylnaphthalene are greater than laboratory-defined limits. Since this compound was not detected in the un-spiked sample and the bias is high, data are not qualified.
- One of the two recoveries for 2-nitroaniline, 4,6-dinitro-2-methylphenol, and fluoranthene are within laboratory limits; therefore data are not qualified for these analytes.
- Both recoveries of 4-chloro-3-methylphenol are below laboratory-specified limits. The non-detected result for this analyte in sample W18STMGP-B14A-2325 is flagged with a "UJ" qualifier.

Sample W18STMGP-B31-2123 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of 2-methylnaphthalene are greater than laboratory-defined limits. The reported concentration of 2-methylnaphthalene in the un-spiked analysis of sample W18STMGP-B31-2123 is flagged with a “J” qualifier
- One of the two recoveries for N-nitrosodiphenylamine, 4-bromophenylphenyl ether, and benzo(a)pyrene are within laboratory limits; therefore data are not qualified for these analytes.

Sample W18STMGP-SB30-8486 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issue was identified:

- Recoveries of 4-nitrophenol are greater than laboratory-defined limits. Because the bias is high and 4-nitrophenol was not detected in the un-spiked sample, data are not qualified. It is also noted that the recovery of 4-nitrophenol is also greater than laboratory-specified limits in the associated LCS analysis.

Sample W18STMGP-SB29-4850 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- One of the two recoveries for 2,4-dinitrotoluene, di-n-butylphthalate, di-n-octylphthalate, and benzo(k)fluoranthene are within laboratory limits; therefore data are not qualified for these analytes.

Sample W18STMGP-GP2-34 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of 2,2-xybis(1-chloropropane), 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, and pentachlorophenol are greater than laboratory-defined limits. Since these compounds were not detected in the un-spiked sample and the bias is high, data are not qualified.
- One of the two recoveries for 4-bromophenylphenyl ether is within laboratory limits; therefore data are not qualified for this analyte.
- Both recoveries of hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol are below laboratory-specified limits. Non-detected results for these analytes in sample W18STMGP-GP2-34 are flagged with “UJ” qualifiers.
- Both recoveries of indeno(1,2,3-cd)pyrene are below laboratory-specified limits. The detected result for indeno(1,2,3-cd)pyrene in sample W18STMGP-GP2-34 is flagged with a “J” qualifier.
- Both recoveries of acenaphthylene, fluoranthene, benzo(b)fluoranthene, and benzo(a)pyrene are greater than laboratory-specified limits. Detected results for these analytes in sample W18STMGP-GP2-34 are flagged with “J” qualifiers.

Sample W18STMGP-SB5B-1011 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- One of the two recoveries for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol are within laboratory limits; therefore data are not qualified for this analyte.
- Recoveries of 4-nitrophenol are greater than laboratory-defined limits. Since 4-nitrophenol was not detected in the un-spiked sample and the bias is high, data are not qualified.

Sample W18STMGP-TP1B-1.01.5 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of hexachloroethane are greater than laboratory-defined limits. Since this compound was not detected in the un-spiked sample and the bias is high, data are not qualified.
- Both recoveries of hexachlorocyclopentadiene, 2,4,5-trichlorophenol, and acenaphthene are below laboratory-specified limits. Non-detected results for these analytes in sample W18STMGP- TP1B-1.01.5 are flagged with "UJ" qualifiers.

Sample W18STMGP-SB3-13-15 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- One of the two recoveries for 3,3-dichlorobenzidine and benzo(g,h,i)perylene are within laboratory limits; therefore data are not qualified for these analytes.
- Both recoveries of hexachlorocyclopentadiene and butylbenzyl phthalate are less than 10%. Non-detected results for these analytes in sample W18STMGP-SB3-13-15 are flagged with "R" qualifiers.
- Both recoveries of 4,6-dinitro-2-methylphenol and indeno(1,2,3-cd)pyrene are below laboratory-specified limits. The non-detected result these compounds in sample W18STMGP-SB3-13-15 are flagged with "UJ" qualifiers.

Sample W18STMGP-SB6-1012 was analyzed as an MS/MSD pair. Both recoveries of hexachlorocyclopentadiene are less than laboratory-defined limits. Non-detected result for hexachlorocyclopentadiene in sample W18STMGP-SB6-1012 is flagged with a "UJ" qualifier.

3.7.3 Cyanide Analyses

Sample W18STMGP-B11-2729 was analyzed as a MS/MSD pair. Recoveries are greater than 200% in both analyses. Reported concentrations of cyanide and cyanide-amenable are flagged with "R" qualifiers.

Sample W18STMGP-SB6-1012 was analyzed as a matrix spike. Recovery is less than USEPA Region 2 limits in this analysis. The reported concentration of cyanide in sample W18STMGP-SB6-1012 is flagged with a "J" qualifier.

3.7.4 Pesticide Analyses

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, recoveries of delta-BHC are greater than laboratory-defined limits. Since delta-BHC was not detected in the un-spiked analysis of sample W18STMGP-B11-2729, data are not qualified.

3.7.5 PCB Analyses

Sample W18STMGP-B07-1719 was analyzed as an MS/MSD pair. All recoveries are within laboratory-defined control limits and data are not qualified.

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. Recoveries of all spiked analytes are greater than laboratory-specified limits. Since the bias is high and no PCB analytes were detected in the un-spiked analysis of sample W18STMGP-B11-2729, data are not qualified.

3.7.6 Herbicide Analyses

Sample W18STMGP-B07-2729 was analyzed as an MS/MSD pair. While recoveries for most compounds fall within laboratory-derived limits, the following issues were identified:

- Recoveries of 2,4-D are both less than and greater than laboratory-defined limits. Since this compound was not detected in the un-spiked sample, the reported result for 2,4-D is flagged with a "UJ" qualifier.
- One of the two recoveries for 2,4,5-T is within laboratory limits; therefore, data are not qualified for this compound.

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. The following issues were identified:

- Recoveries of 2,4-D are both less than laboratory-defined limits. Since this compound was not detected in the un-spiked sample, the reported result for 2,4-D is flagged with a "UJ" qualifier.
- One of the two recoveries for 2,4,5-TP (Silvex) and 2,4,5-T are within laboratory limits; therefore, data are not qualified for these compounds.

3.7.7 Metals Analyses

Sample W18STMGP-B11-2729 was analyzed as an MS/MSD pair. Recoveries for all analytes fall within laboratory-derived limits and data are not qualified based on these results.

Sample W18STMGP-GP2-34 was analyzed as an MS/MSD pair. The following issues were identified:

- Recoveries of silver are both less than laboratory-defined limits. The reported concentration of silver in the un-spiked sample is flagged with a "J" qualifier.
- Recoveries of mercury are both greater than laboratory-defined limits. The reported concentration of mercury in the un-spiked sample is also flagged with a "J" qualifier.

Sample W18STMGP-SB5B-1011 was analyzed as an MS/MSD pair. Recoveries of both antimony and chromium fall below USEPA Region 2 limits in both the MS/MSD analyses. Reported concentrations of antimony and chromium in the un-spiked analysis of W18STMGP-SB5B-1011 are flagged with "J" qualifiers.

Sample W18STMGP-SB5B-1011 was also analyzed as a post-digestion spike (PDS). Recovery of antimony falls below control limits while recovery of zinc is above limits in this analysis. Reported concentrations of antimony and zinc in the un-spiked analysis of W18STMGP-SB5B-1011 are flagged with "J" qualifiers.

Sample W18STMGP-TP1B-1.01.5 was analyzed as an MS/MSD pair. Recoveries for all analytes fall within laboratory-derived limits in one of these analyses and data are not qualified based on these results.

Sample W18STMGP-SB6-1012 was analyzed as an MS/MSD pair. Recoveries for most analytes fall within laboratory-derived limits Recoveries of antimony and chromium are less than USEPA Region 2 limits and reported concentrations of these analytes in the un-spiked analysis of sample W18STMGP-SB6-1012 are flagged with "J" qualifiers.

Sample W18STMGP-SB6-1012 was also analyzed as a post-digestion spike (PDS). Recovery of antimony falls below control limits in this analysis. The reported concentration of antimony in the un-spiked analysis of W18STMGP-SB6-1012 is flagged with a "J" qualifier.

3.8 Internal Standard Recoveries and Retention Times

3.8.1 Volatile Organic Analyses

The area count for internal standard chlorobenzene-d_5 is more than 200% of the count in the associated 12-hour standard in sample W18STMGP-B9-2022. Reported concentrations of ethylbenzene and o-xylene in this sample are flagged with "J" qualifiers.

The area count for internal standard chlorobenzene-d_5 is more than 200% of the count in the associated 12-hour standard in sample W18STMGP-B11-2729. Reported concentrations of ethylbenzene, m/p-xylenes, and o-xylene in this sample are flagged with "J" qualifiers.

The area count for internal standard 1,4-dichlorobenzene-d_4 is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB29-1113. Reported results for isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene in this sample are flagged with "UJ" qualifiers.

The area count for internal standard chlorobenzene-d_5 is less than 50% of the count in the associated 12-hour standard and the area counts for 1,4-dichlorobenzene-d_4 are less than 25% of the count in the associated 12-hour standard in sample W18STMGP-SB29-1113RE. Reported results for tetrachloroethene and m/p-xylenes are flagged with "J" qualifiers; chlorobenzene, ethylbenzene, styrene, and bromoform are flagged with "UJ" qualifiers; and isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene in this sample are flagged with "R" qualifiers.

Area counts for all internal standards are less than 50% of the count of associated 12-hour standard area counts in sample W18STMGP-TP21B-1.01.5. Reported results for acetone, methylene chloride, 2-butanone, methylcyclohexane, toluene, ethylbenzene, m/p-xylenes, o-xylene, and 1,4-dichlorobenzene in this sample are flagged with "J" qualifiers and all non-detected compounds are flagged with "UJ" qualifiers.

Area counts for all internal standards are less than 25% of the count of associated 12-hour standard area counts in sample W18STMGP-TP21B-1.01.5RE. Reported results for acetone, methylene chloride, toluene, m/p-xylenes, and o-xylene in this sample are flagged with "J" qualifiers and all non-detected compounds are flagged with "R" qualifiers.

3.8.2 Semivolatile Organic Analyses

The area count for internal standard chrysene-d_{12} is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB0814.5-15.0. The reported concentration of bis(2-ethylhexyl)phthalate in this sample is flagged with a "J" qualifier.

Area counts for internal standard chrysene-d_{12} are less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB08-11.011.5. The reported concentrations of pyrene and bis(2-ethylhexyl)phthalate in this sample are flagged with "J" qualifiers.

The area count for internal standard chrysene-d_{12} is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB08-11.011.5DL. The reported concentration of bis(2-ethylhexyl)phthalate in this sample is flagged with a "J" qualifier.

The area count for internal standard naphthalene-d_8 is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-B9-2022. The reported non-detected concentrations of acetophenone, nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 4-chloroaniline, hexachlorobutadiene, caprolactam, and 4-chloro-3-methylphenol are flagged with "UJ" qualifiers and reported concentrations of naphthalene and 2-methylnaphthalene are flagged with "J" qualifiers.

The area count for internal standard naphthalene-d_8 is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-B11-2729. The reported non-detected concentrations of acetophenone, nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 4-chloroaniline, hexachlorobutadiene, caprolactam, and 4-chloro-3-methylphenol are flagged with "UJ" qualifiers and reported concentrations of naphthalene and 2-methylnaphthalene are flagged with "J" qualifiers.

The area count for internal standard naphthalene-d_8 is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-B11-2729DL. The reported non-detected concentrations of acetophenone, nitrobenzene, isophorone, 2-nitrophenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 4-chloroaniline, hexachlorobutadiene, caprolactam, and 4-chloro-3-methylphenol are flagged with "UJ" qualifiers and reported concentrations of 2,4-dimethylphenol, naphthalene, and 2-methylnaphthalene are flagged with "J" qualifiers.

The area count for internal standard perylene-d_{12} is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB2-1.01.5. The reported non-detected concentrations of benzo(k)fluoranthene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "UJ" qualifiers and reported concentrations of benzo(b)fluoranthene and benzo(a)pyrene are flagged with "J" qualifiers.

The area count for internal standard perylene-d_{12} is less than 25% of the count in the associated 12-hour standard in sample W18STMGP-SB2-1.01.5RE. The reported non-detected concentrations of benzo(k)fluoranthene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene are flagged with "R" qualifiers and reported concentrations of benzo(b)fluoranthene and benzo(a)pyrene are flagged with "J" qualifiers.

The area count for internal standard perylene-d_{12} is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB5B-1112DL. The reported non-detected concentrations of benzo(k)fluoranthene, dibenz(a,h)anthracene, benzo(g,h,i)perylene, benzo(b)fluoranthene, and benzo(a)pyrene are flagged with "UJ" qualifiers.

The area count for internal standard perylene-d_{12} is less than 50% of the count in the associated 12-hour standard in sample W18STMGP-SB2-19-20.5DL. The reported non-detected

concentrations of benzo(k)fluoranthene, dibenz(a,h)anthracene, benzo(g,h,i)perylene, benzo(b)fluoranthene, and benzo(a)pyrene are flagged with “UJ” qualifiers.

3.9 Laboratory Control Samples

3.9.1 Volatile Organic Analyses

All criteria are met.

3.9.2 Semivolatile Organic Analyses

The recovery of 4-nitrophenol in the LCS identified as PB02160BS in Project Number S5510 is greater than laboratory-specified limits. Because the bias is high and 4-nitrophenol was not detected in associated field samples, data are not qualified.

The recovery of 4-nitrophenol in the LCS identified as PB02329BS in Project Number S5635 is greater than laboratory-specified limits. Because the bias is high and 4-nitrophenol was not detected in associated field samples, data are not qualified.

Recovery of phenol is less than and bis(2-chloroethyl)ether is greater than laboratory-specified limits in the LCS identified as PB02307BS in Project Number S5635. Because the bias is high and bis(2-chloroethyl)ether was not detected in associated field samples, data are not qualified for this analyte. The reported non-detected result for phenol in associated sample W18STMGP-RB10-110704 is flagged with a “UJ” qualifier.

Recoveries of 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol in the LCS identified as PB04465BS in Project Number T2062 are greater than laboratory-specified limits. Because the bias is high and the listed compounds were not detected in associated field samples, data are not qualified.

Recoveries of phenol and dimethylphthalate fall below laboratory-specified limits in the LCS identified as PB05157BS in Project Number T2635. Reported non-detected concentrations of these analytes in associated sample W18STMGP-RB-522004 are flagged with “UJ” qualifiers.

The recovery of 4-nitrophenol in the LCS identified as PB05168BS in Project Number T2635 is greater than laboratory-specified limits. Because the bias is high and 4-nitrophenol was not detected in associated field samples, data are not qualified.

The recovery of bis(2-chloroethoxy)methane in the LCS identified as PB05262BS in Project Number T2708 is less than laboratory-specified limits. The reported non-detected result for this compound in associated sample W18STMGP-RB-5 is flagged with a “UJ” qualifier.

The recovery of diethylphthalate in the LCS identified as PB05261BS in Project Number T2708 is less than laboratory-specified limits. Reported non-detected results for this compound

in associated samples W18STMGP-SB-4-5.05.5, W18STMGP-SB5A-2628, W18STMGP-TP1B-1.01.5, and W18STMGP-TP21B-1.01.5 are flagged with “UJ” qualifiers.

The recovery of 4-nitrophenol in the LCS identified as PB05372BS in Project Number T2823 is less than laboratory-specified limits. The reported non-detected result for 4-nitrophenol in associated field sample W18STMGP-SB6-28.530.5 is flagged with a “UJ” qualifier.

3.9.3 Cyanide Analyses

All criteria are met.

3.9.4 Pesticide Analyses

Recoveries of delta-BHC and 4,4’DDT are less than laboratory-specified control limits in the LCS associated with Project Number S4785. Since these analytes were not detected in any associated sample, reported results for these compounds in samples W18STMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B9-2628, W18STMGP-B9-3234, W18STMGP-B10-68, W18STMGP-B10-810, W18STMGP-B10-2022, W18STMGP-B10-4850, W18STMGP-B11-1315, W18STMGP-B11-2729, W18STMGP-B11-3537, and W18STMGP-B11-3739 are flagged with “UJ” qualifiers.

3.9.5 PCB Analyses

All criteria are met.

3.9.6 Herbicide Analyses

All criteria are met.

3.9.7 Metals Analyses

The recovery of chromium in the LCS identified as PB05310BS in Project Number T2749 is less than laboratory-specified limits. Reported results for chromium in associated field samples W18STMGP-SB3-5-7, W18STMGP-SB3-13-15, W18STMGP-SB3-17-19, W18STMGP-SB2-5-7, W18STMGP-SB2-13-15, W18STMGP-SB2-19-20.5, W18STMGP-SB4-9-13, and W18STMGP-SB4-17-19 are flagged with “J” qualifiers.

3.10 Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Select target analytes results were reported below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Some samples were analyzed using diluted extracts. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

3.10.1 Metals Analyses

Recoveries of zinc in detection limit standards reported in Project Number S4047 are greater than USEPA Region 2 limits. Reported concentrations of zinc in associated field samples W18STMGP-B07-1719, W18STMGP-B07-2729, and W18STMGP-B07-4345 are flagged with "J" qualifiers.

Recovery of mercury is high in the contract required detection limit (CRDL) standard associated with Project Number S4100. Reported concentrations of mercury in samples W18STMGP-SB08-11.011.5 and W18STMGP-SB0814.5-15.0 are flagged with "J" qualifiers.

Recovery of mercury is low in the ending CRDL standard associated with Project Number S4785. Reported results for mercury in samples W18THSTMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B9-2628, W18STMGP-B10-68, W18STMGP-B10-810, W18STMGP-B10-4850, W18STMGP-B11-1315, and W18STMGP-B11-2729 are flagged with "J" qualifiers while non-detected results for mercury are flagged with "UJ" qualifiers in samples W18STMGP-B9-3234, W18STMGP-B10-2022, W18STMGP-B11-3537, and W18STMGP-B11-3739.

Recoveries of selenium are high in the beginning CRDL standard associated with Project Number S4785 while recoveries of lead are high in the beginning standard and low in the ending standard. Reported concentrations of these analytes are flagged with "J" qualifiers in samples W18THSTMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B9-2628, W18STMGP-B10-68, W18STMGP-B10-810, W18STMGP-B10-4850, W18STMGP-B11-1315, W18STMGP-B11-2729, W18STMGP-B9-3234, W18STMGP-B10-2022, W18STMGP-B11-3537, and W18STMGP-B11-3739.

Recovery of mercury is less than 50% in the CRDL standard associated with Project Number S5012. Per USEPA Region 2 guidelines, reported results for mercury in samples W18STMGP-B14A-1113, W18STMGP-B14A-1719, and W18STMGP-B14A-2325 are flagged with "R" qualifiers.

Recovery of mercury is less than 50% in the CRDL standard associated with Project Number S5156. Per USEPA Region 2 guidelines, reported results for mercury in samples W18STMGP-B31-2123, W18STMGP-B31-2527, W18STMGP-B30-1012, W18STMGP-B30-2224, W18STMGP-B30-2426, W18STMGP-B13-2527, W18STMGP-B13A-2527, and W18STMGP-B13-2729 are flagged with "R" qualifiers.

Recovery of thallium in the CRDL standard analyzed on October 20, 2004 at 11:24 and associated with Project number S5156 is greater than USEPA Region 2 limits. The associated positive detection of thallium in sample W18STMGP-B31-2123 is flagged with a "J" qualifier.

Recovery of selenium in the CRDL standard analyzed on November 10, 2004 at 10:18 and associated with Project number S5510 is greater than USEPA Region 2 limits. The associated positive detections of selenium in samples W18STMGP-SB30-2830, W18STMGP-SB30-8486, and W18STMGP-SB66-8486 are flagged with "J" qualifiers.

Recovery of mercury in the CRDL standard analyzed on November 18, 2004 at 12:08 and associated with Project number S5635 is less than USEPA Region 2 limits. The associated non-detected result for mercury in sample W18STMGP-RB10-110704 is flagged with a "UJ" qualifier.

Recovery of thallium in the CRDL standard analyzed on March 28, 2005 at 11:28 and associated with Project number T2062 is less than USEPA Region 2 limits. The associated non-detected results for thallium in samples W18STMGP-GP1R-67, W18STMGP-GP1R-8.39.3, W18STMGP-GP1R-1415, W18STMGP-GP2-34, W18STMGP-GP2-910, W18STMGP-GP3-23, W81STMGP-GP3-56, and W18STMGP-RB-32505 are flagged with "UJ" qualifiers while detected thallium results in samples W18STMGP-GP2-56, W18STMGP-GP2-1921, W18STMGP-GP13-23, W18STMGP-GP3-89, and W18STMGP-GP3-1920 are flagged with "J" qualifiers.

Recoveries of chromium, lead, and silver are high in the CRDL standard analyzed on May 16, 2005 at 13:40 and associated with Project Numbers T2635 and T2708. Reported positive concentrations of these analytes are flagged with "J" qualifiers in samples W18STMGP-SB5B-1011, W18STMGP-SB5B-1112, W18STMGP-SB5B-2122, W18STMGP-SB2-1.01.5, W18STMGP-SB2-2.02.5, W18STMGP-SB3-3.03.5, W18STMGP-SB5A-1719, W18STMGP-SB5A-1920, W18STMGP-SB85A-1920, W18STMGP-SB4-79, and W18STMGP-SB4-1921.

Recovery of selenium in the CRDL standard analyzed on May 10, 2005 at 22:07 and associated with Project number T2708 is less than USEPA Region 2 limits. Associated non-detected results for selenium in samples W18STMGP-SB4-5.05.5, W18STMGP-SB5A-2628, W18STMGP-TP1B-1.01.5, and W18STMGP-TP21B-1.01.5 are flagged with "UJ" qualifiers.

Recovery of mercury in the CRDL standard analyzed on May 11, 2005 at 13:07 and associated with Project number T2635 is greater than USEPA Region 2 limits. The associated concentration for mercury in sample W18STMGP-SB3-3.03.5 is flagged with a "J" qualifier.

Recovery of mercury in the CRDL standard analyzed on May 11, 2005 at 13:40 and associated with Project number T2749 is greater than USEPA Region 2 limits. Associated concentrations of mercury in samples W18STMGP-SB3-5-7, W18STMGP-SB3-13-15, W18STMGP-SB2-5-7, W18STMGP-SB2-13-15, W18STMGP-SB2-19-20.5, W18STMGP-SB4-9-13, and W18STMGP-SB4-17-19 are flagged with "J" qualifiers.

Recovery of mercury in the CRDL standard analyzed on May 18, 2005 at 12:14 and associated with Project number T2708 is less than USEPA Region 2 limits. The associated non-detected result for mercury in sample W18STMGP-SB1-5.05.5 is flagged with a "UJ" qualifier.

Recovery of chromium in the CRDL standard analyzed on May 18, 2005 at 16:32 and associated with Project number T2708 is greater than USEPA Region 2 limits. The associated result for chromium in sample W18STMGP-SB1-5.05.5 is flagged with a "J" qualifier.

Recovery of chromium in the CRDL standard analyzed on May 16, 2005 at 13:40 and associated with Project number T2708 is greater than USEPA Region 2 limits. The associated result for chromium in sample W18STMGP-RB-5 is flagged with a "J" qualifier.

Recovery of mercury in the CRDL standard analyzed on May 19, 2005 at 10:00 and associated with Project number T2823 is greater than USEPA Region 2 limits. The associated concentration of mercury in sample W18STMGP-RB-5122005 is flagged with a "J" qualifier.

Recovery of mercury in the CRDL standard analyzed on May 18, 2005 at 12:14 and associated with Project number T2823 is less than USEPA Region 2 limits. Associated detected concentrations of mercury in samples W18STMGP-SB-6-1012, W18STMGP-SB6-1315, and W18STMGP-SB6-1921 are flagged with "J" qualifiers and non-detected results in samples W18STMGP-SB6-2426, W18STMGP-SB66-2426, and W18STMGP-SB6-28.530.5 are flagged with "UJ" qualifiers.

Recovery of chromium in the CRDL standard analyzed on May 21, 2005 at 11:13 and associated with Project number T2823 is greater than USEPA Region 2 limits. Concentrations of chromium in samples W18STMGP-SB6-1012, W18STMGP-SB6-1315, W18STMGP-SB6-1921, W18STMGP-SB6-2426, W18STMGP-SB66-2426, and W18STMGP-SB6-28.530.5 are flagged with "J" qualifiers.

Recovery of mercury in the CRDL standard analyzed on May 27, 2005 at 14:38 and associated with Project number T2708 is more than USEPA Region 2 limits. Associated detected concentrations of mercury in samples W18STMGP-SB4-5.05.5, W18STMGP-SB5A-2628, W18STMGP-TP1B-1.01.5, and W18STMGP-TP21B-1.01.5 are flagged with "J" qualifiers.

Recovery of mercury in the CRDL standard analyzed on June 13, 2005 at 12:04 and associated with Project number T3189 is greater than USEPA Region 2 limits. Concentrations of mercury in samples W18STMGP-MW5B-3436 and W18STMGP-MW55B-3436 are flagged with "J" qualifiers.

3.11 Target Compound Identification

3.11.1 Volatile Organic Analyses

All criteria are met.

3.11.2 Semivolatile Organic Analyses

All criteria are met.

3.11.3 Cyanide Analyses

All criteria are met.

3.11.4 Pesticide Analyses

The RPD between the chromatographic columns for 2,4,5-T detected in sample W18STMGP-B11-3537 is greater than 40%. Per USEPA Region 2 guidelines, this result is flagged with a "J" qualifier.

3.11.5 PCB Analyses

The %D between the chromatographic columns for Aroclor 1260 detected in sample W18STMGP-B10-810 is greater than 25%. Per USEPA Region 2 guidelines, this result is flagged with a "J" qualifier.

3.11.6 Herbicide Analyses

All criteria are met.

3.11.7 Metals Analyses

The reported percent difference (%D) value for lead is greater than USEPA Region 2 limits in the serial dilution performed using sample W18STMGP-B11-2729. The reported concentrations of lead in associated samples W18THSTMGP-B9-810, W18STMGP-B9-2022, W18STMGP-B9-2628, W18STMGP-B10-68, W18STMGP-B10-810, W18STMGP-B10-4850, W18STMGP-B11-1315, W18STMGP-B11-2729, W18STMGP-B9-3234, W18STMGP-B10-2022, W18STMGP-B11-3537, and W18STMGP-B11-3739 are flagged with "J" qualifiers.

3.12 Other Issues

3.12.1 Cyanide Analyses

Sample W18STMGP-GP2-34 was analyzed as a laboratory duplicate. The reported RPD value associated with these analyses is greater than USEPA Region 2 limits (20%). The reported concentration of cyanide in sample W18STMGP-GP2-34 is flagged with a "J" qualifier.

Sample W18STMGP-TP1B-1.01.5 was analyzed as a laboratory duplicate. The reported RPD value associated with these analyses is greater than USEPA Region 2 limits (20%). The

reported concentration of cyanide in sample W18STMGP-TP1B-1.01.5 is flagged with a “J” qualifier.

Sample W18STMGP-SB6-1012 was analyzed as a laboratory duplicate. Reported RPD values associated with these analyses is greater than USEPA Region 2 limits (20%). Reported concentrations of cyanide and amenable cyanide in sample W18STMGP-SB6-1012 are flagged with “J” qualifiers.

3.12.2 Metals Analyses

Sample W18STMGP-SB29-4850 was analyzed using the serial dilution technique. The %D value for lead is greater than 10% and %D values for copper, nickel, and zinc are greater than 100%. Therefore, the reported concentration of lead is flagged with a “J” qualifier and concentrations of copper, nickel, and zinc are flagged with “R” qualifiers in sample W18STMGP-SB29-4850.

Sample W18STMGP-SB5B-1011 was analyzed as a laboratory duplicate. The reported RPD value for mercury in with these analyses is greater than USEPA Region 2 limits (20%). The reported concentration of mercury in sample W18STMGP- SB5B-1011 is flagged with a “J” qualifier.

Sample W18STMGP-TP1B-1.01.5 was analyzed as a laboratory duplicate. The reported RPD value for mercury in with these analyses is greater than USEPA Region 2 limits (20%). The reported concentration of mercury in sample W18STMGP- TP1B-1.01.5 is flagged with a “J” qualifier.

DATA ASSESSMENT NARRATIVE TABLES

Table 1: Samples Reviewed and Associated Analytical Methods

Matrix	Sample ID	Collected		Methods								Lab Sample ID
		Date	Time									
Soil	W18STMGP-B07-1719	8/9/04	1130	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4047-01
Soil	W18STMGP-B07-2729	8/9/04	1210	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4047-02
Soil	W18STMGP-B07-43-45	8/9/04	1320	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4047-03
Soil	W18STMGP-SB08-11.011.5	8/11/04	1036	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S4100-01
Soil	W18STMGP-SB08-11.011.5DL	8/11/04	1036	--	SW8270	--	--	--	--	--	--	S4100-01DL
Soil	W18STMGP-SB0814.5-15.0	8/11/04	1049	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S4100-02
Soil	W18STMGP-SB0814.5-15.0RE	8/11/04	1049	--	SW8270	--	--	--	--	--	--	S4100-02RE
Soil	W18STMGP-B9-810	9/18/04	1100	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-01
Soil	W18STMGP-B9-2022	9/18/04	1145	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-02
Soil	W18STMGP-B9-2022DL	9/18/04	1145	SW8260	SW8270	--	--	--	--	--	--	S4785-02DL
Soil	W18STMGP-B9-2022DL2	9/18/04	1145	--	SW8270	--	--	--	--	--	--	S4785-02DL2
Soil	W18STMGP-B9-2628	9/18/04	1215	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-03
Soil	W18STMGP-B9-3234	9/18/04	1230	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-04
Soil	W18STMGP-B10-68	9/18/04	1300	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-05
Soil	W18STMGP-B10-68DL	9/18/04	1300	--	SW8270	--	--	--	--	--	--	S4785-05DL
Soil	W18STMGP-B10-810	9/18/04	1310	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-06
Soil	W18STMGP-B10-2022	9/18/04	1400	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-07
Soil	W18STMGP-B10-2022DL	9/18/04	1400	--	SW8270	--	--	--	--	--	--	S4785-07DL
Soil	W18STMGP-B10-4850	9/18/04	1445	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-08
Soil	W18STMGP-B11-1315	9/18/04	1215	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-09
Soil	W18STMGP-B11-2729	9/18/04	1310	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-10
Soil	W18STMGP-B11-2729DL	9/18/04	1310	SW8260	SW8270	--	--	--	--	--	--	S4785-10DL
Soil	W18STMGP-B11-2729DL2	9/18/04	1310	--	SW8270	--	--	--	--	--	--	S4785-10DL2
Soil	W18STMGP-B11-2729DL3	9/18/04	1310	--	SW8270	--	--	--	--	--	--	S4785-10DL3
Soil	W18STMGP-B11-3537	9/18/04	1715	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-13
Soil	W18STMGP-B11-3739	9/18/04	1730	SW8260	SW8270	SW9012	SW8081	SW8082	SW8151	SW6010	SW7471	S4785-14
Soil	W18STMGP-B14A-1113	10/3/04	1000	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5012-01
Soil	W18STMGP-B14A-1719	10/3/04	1050	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5012-02

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collected		Methods								Lab Sample ID
		Date	Time									
Soil	W18STMGP-B14A-2325	10/3/04	1115	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5012-03
Soil	W18STMGP-B31-2123	10/9/04	1140	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-06
Soil	W18STMGP-B31-2123DL	10/9/04	1140	SW8260	--	--	--	--	--	--	--	S5156-06DL
Soil	W18STMGP-B31-2527	10/9/04	1200	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-07
Soil	W18STMGP-B30-1012	10/10/04	0950	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-08
Soil	W18STMGP-B30-1012DL	10/10/04	0950	--	SW8270	--	--	--	--	--	--	S5156-08DL
Soil	W18STMGP-B30-2224	10/10/04	1045	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-09
Soil	W18STMGP-B30-2224DL	10/10/04	1045	SW8260	SW8270	--	--	--	--	--	--	S5156-09DL
Soil	W18STMGP-B30-2426	10/10/04	1055	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-10
Soil	W18STMGP-B30-2426DL	10/10/04	1055	SW8260	--	--	--	--	--	--	--	S5156-10DL
Soil	W18STMGP-B13-2527	10/10/04	1420	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-11
Soil	W18STMGP-B13A-2527	10/10/04	1420	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-12
Soil	W18STMGP-B13-2729	10/10/04	1430	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5156-13
Soil	W18STMGP-SB30-2830	10/30/04	1010	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5510-01
Soil	W18STMGP-SB30-8486	10/30/04	1600	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5510-02
Soil	W18STMGP-SB66-8486	10/30/04	1600	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5510-05
Soil	W18STMGP-SB29-1113	11/6/04	0945	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5635-01
Soil	W18STMGP-SB29-1113RE	11/6/04	0945	SW8260	--	--	--	--	--	--	--	S5635-01RE
Soil	W18STMGP-SB29-3436	11/7/04	1210	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5635-02
Soil	W18STMGP-SB29-3839	11/7/04	1320	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5635-03
Soil	W18STMGP-SB29-4850	11/7/04	1420	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5635-04
Soil	W18STMGP-SB71-4850	11/7/04	1420	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	S5635-07
Water	W18STMGP-RB10-110704	11/7/04	1500	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7470	S5635-08
Water	TRIPBLANK	11/7/04	--	SW8260	--	--	--	--	--	--	--	S5635-09
Soil	W18STMGP-GP1R-67	3/24/05	1030	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-01
Soil	W18STMGP-GP1R-67DL	3/24/05	1030	--	SW8270	--	--	--	--	--	--	T2062-01DL
Soil	W18STMGP-GP1R-8.39.3	3/24/05	1040	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-02
Soil	W18STMGP-GP1R-1415	3/24/05	1100	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-03

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collected		Methods								Lab Sample ID
		Date	Time									
Soil	W18STMGP-GP2-34	3/23/05	1100	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-04
Soil	W18STMGP-GP2-56	3/24/05	1417	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-07
Soil	W18STMGP-GP2-56DL	3/24/05	1417	--	SW8270	--	--	--	--	--	--	T2062-07DL
Soil	W18STMGP-GP2-910	3/24/05	1425	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-08
Soil	W18STMGP-GP2-1921	3/24/05	1530	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-09
Soil	W18STMGP-GP3-23	3/23/05	1130	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-10
Soil	W18STMGP-GP3-23DL	3/23/05	1130	--	SW8270	--	--	--	--	--	--	T2062-10DL
Soil	W18STMGP-GP13-23	3/23/05	1130	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-11
Soil	W18STMGP-GP13-23DL	3/23/05	1130	--	SW8270	--	--	--	--	--	--	T2062-11DL
Soil	W18STMGP-GP3-56	3/25/05	0800	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-12
Soil	W18STMGP-GP3-89	3/25/05	0815	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-13
Soil	W18STMGP-GP3-1920	3/25/05	0930	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2062-14
Water	W18STMGP-RB-32505	3/25/05	1020	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7470	T2062-16
Water	TRIPBLANK	3/25/05	--	SW8260	--	--	--	--	--	--	--	T2062-17
Soil	W18STMGP-SB5B-1011	5/2/05	1040	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-01
Soil	W18STMGP-SB5B-1112	5/2/05	1045	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-04
Soil	W18STMGP-SB5B-1112DL	5/2/05	1045	--	SW8270	--	--	--	--	--	--	T2635-04DL
Soil	W18STMGP-SB5B-2122	5/2/05	1145	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-05
Soil	W18STMGP-SB2-1.01.5	5/2/05	1130	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-06
Soil	W18STMGP-SB2-1.01.5RE	5/2/05	1130	--	SW8270	--	--	--	--	--	--	T2635-06RE
Soil	W18STMGP-SB2-2.02.5	5/2/05	1140	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-07
Soil	W18STMGP-SB3-3.03.5	4/29/05	1300	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-08
Soil	W18STMGP-SB5A-1719	5/2/05	1330	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-09
Soil	W18STMGP-SB5A-1920	5/2/05	1340	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-10
Soil	W18STMGP-SB85A-1920	5/2/05	1340	--	SW8270	SW9012	--	--	--	SW6010	SW7471	T2635-11
Water	W18STMGP-RB-522004	5/2/05	1200	--	SW8270	SW9012	--	--	--	SW6010	SW7470	T2635-12
Soil	W18STMGP-SB4-5.05.5	5/3/05	1045	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-01
Soil	W18STMGP-SB5A-2628	5/3/05	1230	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-02

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collected		Methods								Lab Sample ID
		Date	Time									
Soil	W18STMGP-SB1-5.05.5	5/3/05	1410	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-03
Soil	W18STMGP-TP1B-1.01.5	5/4/05	1330	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-04
Soil	W18STMGP-TP21B-1.01.5	5/4/05	1330	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-07
Soil	W18STMGP-TP21B-1.01.5RE	5/4/05	1330	SW8260	--	--	--	--	--	--	--	T2708-07RE
Soil	W18STMGP-SB4-79	5/5/05	1000	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-08
Soil	W18STMGP-SB4-1921	5/5/05	1200	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-09
Soil	W18STMGP-SB4-1921DL	5/5/05	1200	SW8260	SW8270	--	--	--	--	--	--	T2708-09DL
Soil	W18STMGP-SB4-1921DL2	5/5/05	1200	--	SW8270	--	--	--	--	--	--	T2708-09DL2
Water	W18STMGP-RB-5	5/5/05	1110	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7470	T2708-10
Water	TRIPBLANK	5/5/05	--	SW8260	--	--	--	--	--	--	--	T2708-11
Soil	SB-5A(31-33)	5/3/05	--	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2708-13
Soil	W18STMGP-SB3-5-7	5/6/05	0945	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-01
Soil	W18STMGP-SB3-13-15	5/6/05	1000	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-02
Soil	W18STMGP-SB3-17-19	5/6/05	1010	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-03
Soil	W18STMGP-SB2-5-7	5/6/05	1137	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-04
Soil	W18STMGP-SB2-1315	5/6/05	1206	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-05
Soil	W18STMGP-SB2-19-20.5	5/6/05	1237	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-06
Soil	W18STMGP-SB2-19-20.5DL	5/6/05	1237	--	SW8270	--	--	--	--	--	--	T2749-06DL
Soil	W18STMGP-SB4-9-13	5/5/05	1300	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-07
Soil	W18STMGP-SB4-17-19	5/5/05	1200	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2749-08
Water	TRIPBLANK	5/5/05	0900	SW8260	--	--	--	--	--	--	--	T2749-09
Water	W18STMGP-RB-5122005	5/12/05	0920	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7470	T2823-01
Soil	W18STMGP-SB6-1012	5/12/05	1020	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-02
Soil	W18STMGP-SB6-1315	5/12/05	1100	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-05
Soil	W18STMGP-SB6-1315DL	5/12/05	1100	SW8260	SW8270	--	--	--	--	--	--	T2823-05DL
Soil	W18STMGP-SB6-1921	5/12/05	1250	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-06
Soil	W18STMGP-SB6-2426	5/12/05	1315	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-07
Soil	W18STMGP-SB66-2426	5/12/05	1315	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-08

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collected		Methods								Lab Sample ID
		Date	Time									
Water	TRIPBLANKS	5/13/05	--	SW8260	--	--	--	--	--	--	--	T2823-11
Soil	W18STMGP-SB6-28.530.5	5/12/05	--	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T2823-12
Soil	W18STMGP-MW5B-3436	6/7/05	1315	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T3189-01
Soil	W18STMGP-MW55B-3436	6/7/05	1315	SW8260	SW8270	SW9012	--	--	--	SW6010	SW7471	T3189-04

SW	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, (U.S. Environmental Protection Agency)
8260	Method 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GCMS)
8270	Method 8270C - Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
9012	Method 9012A – Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)
8081	Method 8081A – Organochlorine Pesticides by Gas Chromatography
8082	Method 8082 – Polychlorinated Biphenyls (PCBs) by Gas Chromatography
8151	Method 8151A – Chlorinated Herbicides by GC using Methylation or Pentafluorobenzylation Derivatization
6010	Method 6010B – Inductively Coupled Plasma-Atomic Emission Spectrometry
7470	Method 7470A – Mercury in Liquid Waste (Manual Cold-Vapor Technique)
7471	Method 7471A – Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)

Table 2: Qualified Analytical Data

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
SB-5A(31-33)	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
SB-5A(31-33)	8260	Methylene chloride	J	Detected in method blank.
SB-5A(31-33)	9012	Cyanide-Amenable	UJ	Analyzed 1 day past holding time expiration.
TRIPBLANK	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B07-1719	6010	Zinc	J	Detection limit standard recoveries high.
W18STMGP-B07-1719	6010	Beryllium	J	Detected in preparation blank.
W18STMGP-B07-2729	8151	2,4-D	UJ	MS/MSD recoveries both low and high.
W18STMGP-B07-2729	6010	Beryllium	J	Detected in preparation blank.
W18STMGP-B07-2729	6010	Zinc	J	Detection limit standard recoveries high.
W18STMGP-B07-4345	6010	Beryllium	J	Detected in preparation blank.
W18STMGP-B07-4345	6010	Zinc	J	Detection limit standard recoveries high.
W18STMGP-B9-810	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B9-810	8260	Carbon disulfide	J	Continuing calibration %D > 20%.
W18STMGP-B9-810	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B9-810	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-B9-810	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B9-810	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B9-810	7471	Mercury	J	Low CRDL recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B9-810	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B9-810	6010	Selenium	J	High CRDL recovery.
W18STMGP-B9-2022	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B9-2022	8260	Ethylbenzene	J	High internal standard area counts.
W18STMGP-B9-2022	8260	o-Xylene	J	High internal standard area counts.
W18STMGP-B9-2022	8270	Acetophenone	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	Nitrobenzene	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	Isophorone	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	2-Nitrophenol	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	2,4-Dimethylphenol	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	2,4-Dichlorophenol	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	Naphthalene	J	Low internal standard area counts.
W18STMGP-B9-2022	8270	4-Chloroaniline	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	Hexachlorobutadiene	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	Caprolactam	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	4-Chloro-3-methylphenol	UJ	Low internal standard area counts.
W18STMGP-B9-2022	8270	2-Methylnaphthalene	J	Low internal standard area counts.
W18STMGP-B9-2022	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-B9-2022	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B9-2022	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B9-2022	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B9-2022	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B9-2022	6010	Selenium	J	High CRDL recovery.
W18STMGP-B9-2022DL	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B9-2022DL2	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%.
W18STMGP-B9-2628	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B9-2628	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B9-2628	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B9-2628	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B9-2628	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B9-2628	6010	Selenium	J	High CRDL recovery.
W18STMGP-B9-3234	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B9-3234	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B9-3234	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B9-3234	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B9-3234	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-B9-3234	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B10-68	8260	Cyclohexane	J	Initial calibration %RSD > 15%.
W18STMGP-B10-68	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-B10-68	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B10-68	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B10-68	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B10-68	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B10-68DL	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-B10-68DL	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%.
W18STMGP-B10-810	8260	Cyclohexane	J	Initial calibration %RSD > 15%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B10-810	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B10-810	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B10-810	8082	Aroclor 1260	J	Dual column %D > 25%.
W18STMGP-B10-810	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B10-810	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B10-810	6010	Selenium	J	High CRDL recovery.
W18STMGP-B10-2022	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B10-2022	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B10-2022	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-B10-2022	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B10-4850	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B10-4850	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B10-4850	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B10-4850	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B11-1315	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B11-1315	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B11-1315	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B11-1315	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B11-1315	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B11-1315	6010	Selenium	J	High CRDL recovery.
W18STMGP-B11-2729	8260	Methyl tert-butyl ether	J	High surrogate recoveries.
W18STMGP-B11-2729	8260	Methylcyclohexane	J	High surrogate recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B11-2729	8260	Acetone	J	Initial calibration %RSD > 15%.
W18STMGP-B11-2729	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B11-2729	8260	Benzene	J	High surrogate recoveries.
W18STMGP-B11-2729	8260	Toluene	J	High surrogate recoveries.
W18STMGP-B11-2729	8260	Ethylbenzene	J	High surrogate recoveries. High internal standard area counts.
W18STMGP-B11-2729	8260	m/p-Xylenes	J	High internal standard area counts.
W18STMGP-B11-2729	8260	o-Xylene	J	High surrogate recoveries. High internal standard area counts.
W18STMGP-B11-2729	8260	Isopropylbenzene	J	High surrogate recoveries.
W18STMGP-B11-2729	8260	1,1-Dichloroethene	UJ	Low MS/MSD recoveries.
W18STMGP-B11-2729	8270	2,2-oxybis(1-Chloropropane	UJ	Low MS/MSD recoveries.
W18STMGP-B11-2729	8270	2,4-Dichlorophenol	UJ	Low MS/MSD recoveries. Low internal standard area counts.
W18STMGP-B11-2729	8270	Hexachlorocyclopentadiene	R	MS/MSD recoveries are < 10%.
W18STMGP-B11-2729	8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B11-2729	8270	Carbazole	J	Low MS/MSD recoveries.
W18STMGP-B11-2729	8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-B11-2729	8270	Acetophenone	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	Nitrobenzene	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	Isophorone	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	2-Nitrophenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	2,4-Dimethylphenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	Naphthalene	J	Low internal standard area counts.
W18STMGP-B11-2729	8270	4-Chloroaniline	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	Hexachlorobutadiene	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	Caprolactam	UJ	Low internal standard area counts.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B11-2729	8270	4-Chloro-3-methylphenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729	8270	2-Methylnaphthalene	J	Low internal standard area counts.
W18STMGP-B11-2729	9012	Cyanide	R	MS/MSD recoveries > 200%.
W18STMGP-B11-2729	9012	Cyanide-Amenable	R	MS/MSD recoveries > 200%.
W18STMGP-B11-2729	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B11-2729	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B11-2729	8151	2,4-D	UJ	Low MS/MSD recoveries.
W18STMGP-B11-2729	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B11-2729	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B11-2729DL	8270	Acetophenone	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	Nitrobenzene	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	Isophorone	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	2-Nitrophenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	2,4-Dimethylphenol	J	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	2,4-Dichlorophenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	Naphthalene	J	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	4-Chloroaniline	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	Hexachlorobutadiene	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	Caprolactam	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	4-Chloro-3-methylphenol	UJ	Low internal standard area counts.
W18STMGP-B11-2729DL	8270	2-Methylnaphthalene	J	Low internal standard area counts. Continuing calibration %D > 20%.
W18STMGP-B11-2729DL2	8270	2-Methylnaphthalene	J	Continuing calibration %D > 20%.
W18STMGP-B11-2729DL3	8270	2-Methylnaphthalene	J	Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B11-3537	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B11-3537	8260	Methyl tert-butyl ether	J	Continuing calibration %D > 20%.
W18STMGP-B11-3537	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B11-3537	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B11-3537	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B11-3537	8151	2,4,5-T	J	Dual column %D > 25%.
W18STMGP-B11-3537	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-B11-3537	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B11-3537	6010	Selenium	J	High CRDL recovery.
W18STMGP-B11-3739	8260	Acetone	J	Initial calibration %RSD > 15%.
W18STMGP-B11-3739	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-B11-3739	8081	delta-BHC	UJ	Low LCS recovery.
W18STMGP-B11-3739	8081	4,4'-DDT	UJ	Low LCS recovery.
W18STMGP-B11-3739	7471	Mercury	J	Low CRDL recovery.
W18STMGP-B11-3739	6010	Lead	J	High CRDL recovery. High serial dilution %D.
W18STMGP-B13-2527	8260	Acetone	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-B13-2527	8260	Carbon disulfide	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B13-2527	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B13-2527	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B13-2729	8260	Acetone	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-B13-2729	8260	Carbon disulfide	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B13-2729	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B13-2729	8260	m/p-Xylenes	J	Initial calibration %RSD > 15%.
W18STMGP-B13-2729	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B13A-2527	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-B13A-2527	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B13A-2527	8270	Hexachlorocyclopentadiene	R	Continuing calibration %D > 90%.
W18STMGP-B13A-2527	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B14A-1113	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B14A-1113	6010	Thallium	J	Detected in method blank.
W18STMGP-B14A-1719	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B14A-1719	6010	Thallium	J	Detected in method blank.
W18STMGP-B14A-2325	8260	Acetone	J	Initial calibration %RSD > 15%.
W18STMGP-B14A-2325	8260	Carbon disulfide	J	Initial calibration %RSD > 15%.
W18STMGP-B14A-2325	8270	4-Chloro-3-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B14A-2325	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B14A-2325	6010	Thallium	J	Detected in method blank.
W18STMGP-B30-1012	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-B30-1012	8260	Carbon disulfide	J	Initial calibration %RSD > 15%.
W18STMGP-B30-1012	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-B30-1012	8260	m/p-Xylenes	J	Initial calibration %RSD > 15%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B30-1012	8260	Isopropylbenzene	J	Continuing calibration %D > 20%.
W18STMGP-B30-1012	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%.
W18STMGP-B30-1012	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-1012	8270	Phenanthrene	J	Continuing calibration %D > 20%.
W18STMGP-B30-1012	8270	Benzo(k)fluoranthene	J	Continuing calibration %D > 20%.
W18STMGP-B30-1012	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-B30-1012	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B30-1012DL	8270	Dibenzofuran	J	Continuing calibration %D > 20%.
W18STMGP-B30-1012DL	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2224	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B30-2224	8260	Methylene chloride	J	Continuing calibration %D > 20%.
W18STMGP-B30-2224	8260	Styrene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2224	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%.
W18STMGP-B30-2224	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2224	8270	Phenanthrene	J	Continuing calibration %D > 20%.
W18STMGP-B30-2224	8270	Benzo(k)fluoranthene	J	Continuing calibration %D > 20%.
W18STMGP-B30-2224	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-B30-2224	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B30-2224DL	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B30-2224DL	8260	Styrene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2224DL	8270	2-Methylnaphthalene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B30-2224DL	8270	Acenaphthylene	J	Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B30-2224DL	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2426	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-B30-2426	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B30-2426	8260	m/p-Xylenes	J	Initial calibration %RSD > 15%.
W18STMGP-B30-2426	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B30-2426DL	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B31-2123	8260	Acetone	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-B31-2123	8260	Carbon disulfide	J	Initial calibration %RSD > 15%.
W18STMGP-B31-2123	8260	Methyl acetate	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B31-2123	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-B31-2123	8260	m/p-Xylenes	J	Initial calibration %RSD > 15%.
W18STMGP-B31-2123	8270	2-Methylnaphthalene	J	High MS/MSD recoveries. Initial calibration %RSD > 15%.
W18STMGP-B31-2123	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-B31-2123	8270	Hexachlorocyclopentadiene	R	Continuing calibration %D > 90%.
W18STMGP-B31-2123	8270	1,1-Biphenyl	J	Continuing calibration %D > 20%.
W18STMGP-B31-2123	8270	Dibenzofuran	J	Continuing calibration %D > 20%.
W18STMGP-B31-2123	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-B31-2123	6010	Thallium	J	High CRDL recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B31-2527	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-B31-2527	8260	Carbon disulfide	J	Initial calibration %RSD > 15%.
W18STMGP-B31-2527	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-B31-2527	7471	Mercury	R	CRDL recovery < 50%.
W18STMGP-GP1R-8.39.3	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP1R-1415	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP1R-67	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP1R-67	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP1R-67	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP1R-67	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP1R-67	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP1R-67DL	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP1R-67DL	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-34	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP2-34	8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-GP2-34	8270	Acenaphthylene	J	High MS/MSD recoveries.
W18STMGP-GP2-34	8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-GP2-34	8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-GP2-34	8270	Fluoranthene	J	High MS/MSD recoveries.
W18STMGP-GP2-34	8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries. Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP2-34	8270	Benzo(a)pyrene	J	High MS/MSD recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-GP2-34	8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries. Continuing calibration %D > 20%.
W18STMGP-GP2-34	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-34	9012	Cyanide	J	Laboratory duplicate RPD > 20%.
W18STMGP-GP2-34	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP2-34	6010	Mercury	J	High MS/MSD recoveries.
W18STMGP-GP2-34	6010	Silver	J	Low MS/MSD recoveries.
W18STMGP-GP2-56	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP2-56	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP2-56	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-56	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-56	6010	Thallium	J	Low CRDL recovery.
W18STMGP-GP2-56DL	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP2-56DL	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-910	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP2-910	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP2-1921	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP2-1921	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP2-1921	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP2-1921	6010	Thallium	J	Low CRDL recovery.
W18STMGP-GP3-23	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP3-23	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP3-23	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-GP3-23	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP3-23	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP3-23DL	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP3-23DL	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP3-56	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP3-56	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP3-56	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP3-56	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP3-56	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-GP3-89	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP3-89	6010	Thallium	J	Low CRDL recovery.
W18STMGP-GP3-1920	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP3-1920	6010	Thallium	J	Low CRDL recovery.
W18STMGP-GP13-23	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-GP13-23	8260	Acetone	J	Detected in method blank.
W18STMGP-GP13-23	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP13-23	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-GP13-23	8270	Dibenz(a,h)anthracene	J	Continuing calibration %D > 20%.
W18STMGP-GP13-23	6010	Thallium	J	Low CRDL recovery.
W18STMGP-GP13-23DL	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-GP13-23DL	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-MW5B-3436	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-MW5B-3436	7471	Mercury	J	High CRDL recovery.
W18STMGP-MW55B-3436	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-MW55B-3436	7471	Mercury	J	High CRDL recovery.
W18STMGP-RB-5	8260	Methylene chloride	J	Initial calibration %RSD > 15%.
W18STMGP-RB-5	8270	bis(2-Chloroethoxy)methane	UJ	Low LCS recovery.
W18STMGP-RB-5	6010	Chromium	J	High CRDL recovery.
W18STMGP-RB-32505	8270	bis(2-Ethylhexyl)phthalate	J	Detected in method blank.
W18STMGP-RB-32505	6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-RB-522004	8270	Phenol	UJ	Low LCS recovery.
W18STMGP-RB-522004	8270	Dimethylphthalate	UJ	Low LCS recovery.
W18STMGP-RB-5122005	8270	bis(2-Ethylhexyl)phthalate	J	Detected in method blank.
W18STMGP-RB-5122005	7470	Mercury	J	High CRDL recovery.
W18STMGP-RB10-110704	8270	Phenol	UJ	Low LCS recovery.
W18STMGP-RB10-110704	8270	bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.
W18STMGP-RB10-110704	7470	Mercury	UJ	Low CRDL recovery.
W18STMGP-SB1-5.05.5	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank. Detected in trip blank.
W18STMGP-SB1-5.05.5	6010	Chromium	J	High CRDL recovery. Detected in equipment rinsate blank.
W18STMGP-SB1-5.05.5	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-SB1-5.05.5	9012	Cyanide-Amenable	UJ	Analyzed 1 day past holding time expiration.
W18STMGP-SB2-1.01.5	8270	2,2-oxybis(1-Chloropropane	R	Continuing calibration %D > 90%.
W18STMGP-SB2-1.01.5	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-SB2-1.01.5	8270	Phenanthrene	J	Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB2-1.01.5	8270	Benzo(b)fluoranthene	J	Low internal standard area counts. Continuing calibration %D > 20%.
W18STMGP-SB2-1.01.5	8270	Benzo(k)fluoranthene	UJ	Low internal standard area counts.
W18STMGP-SB2-1.01.5	8270	Benzo(a)pyrene	J	Low internal standard area counts.
W18STMGP-SB2-1.01.5	8270	Dibenz(a,h)anthracene	UJ	Low internal standard area counts.
W18STMGP-SB2-1.01.5	8270	Benzo(g,h,i)perylene	UJ	Low internal standard area counts.
W18STMGP-SB2-1.01.5	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-SB2-1.01.5	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB2-1.01.5	6010	Lead	J	High CRDL recovery.
W18STMGP-SB2-1.01.5	6010	Silver	J	High CRDL recovery.
W18STMGP-SB2-1.01.5RE	8270	Napthalene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-SB2-1.01.5RE	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-SB2-1.01.5RE	8270	Benzo(b)fluoranthene	J	Low internal standard area counts.
W18STMGP-SB2-1.01.5RE	8270	Benzo(k)fluoranthene	R	Low internal standard area counts.
W18STMGP-SB2-1.01.5RE	8270	Benzo(a)pyrene	J	Low internal standard area counts.
W18STMGP-SB2-1.01.5RE	8270	Dibenz(a,h)anthracene	R	Low internal standard area counts.
W18STMGP-SB2-1.01.5RE	8270	Benzo(g,h,i)perylene	R	Low internal standard area counts.
W18STMGP-SB2-2.02.5	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB2-2.02.5	6010	Lead	J	High CRDL recovery.
W18STMGP-SB2-5-7	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB2-5-7	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB2-5-7	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB2-13-15	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB2-13-15	8260	Methyl tert-butyl ether	J	Continuing calibration %D >20%.
W18STMGP-SB2-13-15	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB2-13-15	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB2-19-20.5	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB2-19-20.5	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB2-19-20.5DL	8270	Anthracene	J	Continuing calibration %D >20%.
W18STMGP-SB2-19-20.5DL	8270	Benzo(b)fluoranthene	UJ	Low internal standard area counts.
W18STMGP-SB2-19-20.5DL	8270	Benzo(k)fluoranthene	UJ	Low internal standard area counts.
W18STMGP-SB2-19-20.5DL	8270	Benzo(a)pyrene	UJ	Low internal standard area counts.
W18STMGP-SB2-19-20.5DL	8270	Dibenz(a,h)anthracene	UJ	Low internal standard area counts.
W18STMGP-SB2-19-20.5DL	8270	Benzo(g,h,i)perylene	UJ	Low internal standard area counts.
W18STMGP-SB3-3.03.5	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Analyzed 32 days after collection.
W18STMGP-SB3-3.03.5	8260	All Non-Detected Compounds	R	Analyzed 32 days after collection.
W18STMGP-SB3-3.03.5	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB3-3.03.5	6010	Lead	J	High CRDL recovery.
W18STMGP-SB3-3.03.5	6010	Silver	J	High CRDL recovery.
W18STMGP-SB3-3.03.5	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB3-5-7	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB3-5-7	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB3-5-7	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB3-13-15	8270	Hexachlorocyclopentadiene	R	MS/MSD recoveries < 10%.
W18STMGP-SB3-13-15	8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-SB3-13-15	8270	Butylbenzylphthalate	R	MS/MSD recoveries < 10%.
W18STMGP-SB3-13-15	8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB3-13-15	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB3-13-15	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB3-17-19	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB3-17-19	8260	Methyl tert-butyl ether	J	Continuing calibration %D >20%.
W18STMGP-SB3-17-19	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB4-5.05.5	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank.
W18STMGP-SB4-5.05.5	8260	Methylene chloride		Detected in method blank.
W18STMGP-SB4-5.05.5	8270	Diethylphthalate	UJ	Low LCS recovery.
W18STMGP-SB4-5.05.5	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-5.05.5	9012	Cyanide-Amenable	J	Analyzed 1 day past holding time expiration.
W18STMGP-SB4-5.05.5	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB4-5.05.5	6010	Selenium	UJ	Low CRDL recovery.
W18STMGP-SB4-9-13	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank.
W18STMGP-SB4-9-13	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB4-9-13	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB4-17-19	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank.
W18STMGP-SB4-17-19	6010	Chromium	J	Low LCS recovery.
W18STMGP-SB4-17-19	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB4-1921	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB4-1921	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%.
W18STMGP-SB4-1921	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921	8270	Benzo(a)pyrene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921	8270	Indeno(1,2,3-cd)pyrene	J	Continuing calibration %D > 20%.
W18STMGP-SB4-1921	8270	Dibenz(a,h)anthracene	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%.
W18STMGP-SB4-1921	8270	Benzo(g,h,i)perylene	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%.
W18STMGP-SB4-1921	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB4-1921	6010	Lead	J	High CRDL recovery.
W18STMGP-SB4-1921	6010	Silver	J	High CRDL recovery.
W18STMGP-SB4-1921DL	8270	Anthracene	J	Continuing calibration %D > 20%.
W18STMGP-SB4-1921DL	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921DL	8270	Benzo(k)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921DL	8270	Benzo(a)pyrene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921DL	8270	Benzo(g,h,i)perylene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-1921DL2	8270	Anthracene	J	Continuing calibration %D > 20%.
W18STMGP-SB4-1921DL2	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-SB4-79	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank. Detected in trip blank.
W18STMGP-SB4-79	8260	Methylene chloride	J	Continuing calibration %D > 20%. Detected in method blank. Detected in equipment rinsate blank.
W18STMGP-SB4-79	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.
W18STMGP-SB4-79	6010	Chromium	J	High CRDL recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB4-79	6010	Lead	J	High CRDL recovery.
W18STMGP-SB4-79	6010	Silver	J	High CRDL recovery.
W18STMGP-SB5A-1719	8270	2,2-oxybis(1-Chloropropane	R	Continuing calibration %D > 90%.
W18STMGP-SB5A-1719	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB5A-1719	6010	Lead	J	High CRDL recovery.
W18STMGP-SB5A-1920	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB5A-1920	6010	Lead	J	High CRDL recovery.
W18STMGP-SB5A-1920	6010	Silver	J	High CRDL recovery.
W18STMGP-SB5A-2628	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank. Detected in trip blank.
W18STMGP-SB5A-2628	8270	Diethylphthalate	UJ	Low LCS recovery.
W18STMGP-SB5A-2628	9012	Cyanide-Amenable	UJ	Analyzed 1 day past holding time expiration.
W18STMGP-SB5A-2628	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB5A-2628	6010	Selenium	UJ	Low CRDL recovery.
W18STMGP-SB5B-1011	6010	Antimony	J	Low MS/MSD recovery. Low PDS recovery.
W18STMGP-SB5B-1011	6010	Chromium	J	High CRDL recovery. Low MS/MSD recovery.
W18STMGP-SB5B-1011	6010	Lead	J	High CRDL recovery.
W18STMGP-SB5B-1011	7471	Mercury	J	High laboratory duplicate RPD.
W18STMGP-SB5B-1011	6010	Zinc	J	High PDS recovery
W18STMGP-SB5B-1112	8270	2,2-oxybis(1-Chloropropane	R	Continuing calibration %D > 90%.
W18STMGP-SB5B-1112	8270	Fluorene	J	Initial calibration %RSD > 15%.
W18STMGP-SB5B-1112	8270	Phenanthrene	J	Continuing calibration %D > 20%.
W18STMGP-SB5B-1112	6010	Chromium	J	High CRDL recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB5B-1112	6010	Lead	J	High CRDL recovery.
W18STMGP-SB5B-1112	6010	Silver	J	High CRDL recovery.
W18STMGP-SB5B-1112DL	8270	Napthalene	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-SB5B-1112DL	8270	Benzo(b)fluoranthene	UJ	Low internal standard area counts.
W18STMGP-SB5B-1112DL	8270	Benzo(k)fluoranthene	UJ	Low internal standard area counts.
W18STMGP-SB5B-1112DL	8270	Benzo(a)pyrene	UJ	Low internal standard area counts.
W18STMGP-SB5B-1112DL	8270	Dibenz(a,h)anthracene	UJ	Low internal standard area counts.
W18STMGP-SB5B-1112DL	8270	Benzo(g,h,i)perylene	UJ	Low internal standard area counts.
W18STMGP-SB5B-2122	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB5B-2122	6010	Lead	J	High CRDL recovery.
W18STMGP-SB5B-2122	6010	Silver	J	High CRDL recovery.
W18STMGP-SB6-1012	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB6-1012	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.
W18STMGP-SB6-1012	8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-SB6-1012	9012	Cyanide	J	Low MS recovery. High laboratory duplicate RPD.
W18STMGP-SB6-1012	9012	Amenable Cyanide	J	High laboratory duplicate RPD.
W18STMGP-SB6-1012	6010	Antimony	J	Low MS/MSD recoveries. Low PDS recovery.
W18STMGP-SB6-1012	6010	Chromium	J	High CRDL recovery. Low MS/MSD recoveries.
W18STMGP-SB6-1012	7471	Mercury	J	Low CRDL recovery.
W18STMGP-SB6-1315	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB6-1315	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB6-1315	7471	Mercury	J	Low CRDL recovery.
W18STMGP-SB6-1315DL	8260	All Non-Detected Compounds	UJ	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	Methylcyclohexane	J	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	Benzene	J	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	Toluene	J	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	Ethylbenzene	J	Analyzed 17 days after collection. Initial calibration %RSD > 15%.
W18STMGP-SB6-1315DL	8260	m/p-Xylenes	J	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	o-Xylene	J	Analyzed 17 days after collection.
W18STMGP-SB6-1315DL	8260	Isopropylbenzene	J	Analyzed 17 days after collection.
W18STMGP-SB6-1921	8260	Acetone	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB6-1921	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.
W18STMGP-SB6-1921	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB6-1921	7471	Mercury	J	Low CRDL recovery.
W18STMGP-SB6-2426	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB6-2426	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.
W18STMGP-SB6-2426	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB6-2426	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-SB6-28.530.5	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank.
W18STMGP-SB6-28.530.5	8270	4-Nitrophenol	UJ	Low LCS recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB6-28.530.5	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB6-28.530.5	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-SB08-11.011.5	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB08-11.011.5	8260	Methylcyclohexane	J	Initial calibration %RSD > 15%.
W18STMGP-SB08-11.011.5	8260	Methylene chloride	U	Detected in method blank.
W18STMGP-SB08-11.011.5	8270	Pyrene	J	Low internal standard area counts. Initial calibration %RSD > 15%.
W18STMGP-SB08-11.011.5	8270	bis(2-Ethylhexyl)phthalate	J	Low internal standard area counts.
W18STMGP-SB08-11.011.5	9012	Cyanide	J	Bracketing CCV recoveries < 85%.
W18STMGP-SB08-11.011.5	9012	Cyanide-Amenable	UJ	Bracketing CCV recoveries < 85%.
W18STMGP-SB08-11.011.5DL	8270	bis(2-Ethylhexyl)phthalate	J	Low internal standard area counts. Continuing calibration %D > 20%.
W18STMGP-SB0814.5-15.0	8260	Acetone	J	Initial calibration %RSD > 15%.
W18STMGP-SB0814.5-15.0	8260	Methylene chloride	U	Detected in method blank.
W18STMGP-SB0814.5-15.0	8270	bis(2-Ethylhexyl)phthalate	J	Low internal standard area counts.
W18STMGP-SB0814.5-15.0	7471	Mercury	J	High CRDL recovery.
W18STMGP-SB0814.5-15.0	9012	Cyanide	UJ	Bracketing CCV recoveries < 85%.
W18STMGP-SB0814.5-15.0	9012	Cyanide-Amenable	UJ	Bracketing CCV recoveries < 85%.
W18STMGP-SB29-1113	8260	All Non-Detected Compounds	UJ	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Methylene chloride	J	Low surrogate recovery. Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB29-1113	8260	Chloroform	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Benzene	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Trichloroethene	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Toluene	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Tetrachloroethene	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	m/p-Xylenes	J	Low surrogate recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB29-1113	8260	o-Xylene	J	Low surrogate recovery.
W18STMGP-SB29-1113	8260	Isopropylbenzene	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,1,2,2-Tetrachloroethane	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,3-Dichlorobenzene	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,4-Dichlorobenzene	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,2-Dichlorobenzene	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,2-Dibromo-3-chloropropane	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8260	1,2,4-Trichlorobenzene	UJ	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113	8270	Bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.
W18STMGP-SB29-1113RE	8260	All Non-Detected Compounds	UJ	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Methylene chloride	J	Low surrogate recovery. Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB29-1113RE	8260	cis-1,2-Dichloroethene	J	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Chloroform	J	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Benzene	J	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Trichloroethene	J	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Toluene	J	Low surrogate recovery.
W18STMGP-SB29-1113RE	8260	Tetrachloroethene	J	Low surrogate recovery. Low internal standard area counts. Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB29-1113RE	8260	m/p-Xylenes	J	Low surrogate recovery. Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	Chlorobenzene	UJ	Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	Ethylbenzene	UJ	Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	o-Xylene	UJ	Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	Styrene	UJ	Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	Bromoform	UJ	Low internal standard area counts.
W18STMGP-SB29-1113RE	8260	Isopropylbenzene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,1,2,2-Tetrachloroethane	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,3-Dichlorobenzene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,4-Dichlorobenzene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,2-Dichlorobenzene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,2-Dibromo-3-chloropropane	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-1113RE	8260	1,2,4-Trichlorobenzene	R	Internal standard area count < 25% of 12-hour standard.
W18STMGP-SB29-3436	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB29-3436	8270	bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.
W18STMGP-SB29-3839	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB29-3839	8270	bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-SB29-4850	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB29-4850	8270	bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.
W18STMGP-SB29-4850	6010	Copper	R	Serial dilution %D > 100%.
W18STMGP-SB29-4850	6010	Lead	J	Serial dilution %D > 10%.
W18STMGP-SB29-4850	6010	Nickel	R	Serial dilution %D > 100%.
W18STMGP-SB29-4850	6010	Zinc	R	Serial dilution %D > 100%.
W18STMGP-SB30-2830	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-SB30-2830	6010	Selenium	J	High CRDL recovery.
W18STMGP-SB30-8486	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-SB30-8486	6010	Selenium	J	High CRDL recovery.
W18STMGP-SB66-2426	8260	Acetone	J	Detected in method blank.
W18STMGP-SB66-2426	8270	4,6-Dinitro-2-methylphenol	R	Continuing calibration %D > 90% and RRF < 0.050.
W18STMGP-SB66-2426	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB66-2426	7471	Mercury	UJ	Low CRDL recovery.
W18STMGP-SB66-8486	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D >20%.
W18STMGP-SB66-8486	6010	Selenium	J	High CRDL recovery.
W18STMGP-SB71-4850	8260	Methylene chloride	J	Initial calibration %RSD > 15%. Detected in method blank.
W18STMGP-SB71-4850	8270	bis(2-Ethylhexyl)phthalate	J	Continuing calibration %D > 20%.
W18STMGP-SB85A-1920	6010	Chromium	J	High CRDL recovery.
W18STMGP-SB85A-1920	6010	Lead	J	High CRDL recovery.
W18STMGP-SB85A-1920	6010	Silver	J	High CRDL recovery.
W18STMGP-TP1B-1.01.5	8260	Chlorobenzene	UJ	Low MS/MSD recoveries.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-TP1B-1.01.5	8260	Acetone	J	Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank. Detected in trip blank.
W18STMGP-TP1B-1.01.5	8260	Methylene chloride	J	Detected in method blank. Detected in equipment rinsate blank.
W18STMGP-TP1B-1.01.5	8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-TP1B-1.01.5	8270	2,4,5-Trichlorophenol	UJ	Low MS/MSD recoveries.
W18STMGP-TP1B-1.01.5	8270	Acenaphthene	UJ	Low MS/MSD recoveries.
W18STMGP-TP1B-1.01.5	8270	Diethylphthalate	UJ	Low LCS recovery.
W18STMGP-TP1B-1.01.5	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-TP1B-1.01.5	8270	Benzo(a)pyrene	J	Initial calibration %RSD > 15%.
W18STMGP-TP1B-1.01.5	8270	Benzo(g,h,i)perylene	J	Initial calibration %RSD > 15%.
W18STMGP-TP1B-1.01.5	8270	Cyanide	J	Laboratory duplicate RPD > 20%.
W18STMGP-TP1B-1.01.5	7471	Mercury	J	High CRDL recovery. High laboratory duplicate RPD.
W18STMGP-TP1B-1.01.5	6010	Selenium	UJ	Low CRDL recovery.
W18STMGP-TP21B-1.01.5	8260	Acetone	J	Low internal standard area counts. Initial calibration %RSD > 15%. Continuing calibration %D > 20%. Detected in method blank. Detected in trip blank.
W18STMGP-TP21B-1.01.5	8260	2-Butanone	J	Continuing calibration %D > 20%.
W18STMGP-TP21B-1.01.5	8260	Methylene chloride	J	Low internal standard area counts. Detected in equipment rinsate blank.
W18STMGP-TP21B-1.01.5	8260	2-Butanone	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	Methylcyclohexane	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	Toluene	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	Ethylbenzene	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	m/p-Xylenes	J	Low internal standard area counts.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-TP21B-1.01.5	8260	o-Xylene	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	1,4-Dichlorobenzene	J	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8260	All Non-Detected Compounds	UJ	Low internal standard area counts.
W18STMGP-TP21B-1.01.5	8270	Diethylphthalate	UJ	Low LCS recovery.
W18STMGP-TP21B-1.01.5	8270	Benzo(b)fluoranthene	J	Initial calibration %RSD > 15%.
W18STMGP-TP21B-1.01.5	8270	Benzo(a)pyrene	J	Initial calibration %RSD > 15%.
W18STMGP-TP21B-1.01.5	8270	Benzo(g,h,i)perylene	J	Initial calibration %RSD > 15%.
W18STMGP-TP21B-1.01.5	7471	Mercury	J	High CRDL recovery.
W18STMGP-TP21B-1.01.5	6010	Selenium	UJ	Low CRDL recovery.
W18STMGP-TP21B-1.01.5RE	8260	Acetone	J	Internal standard area count < 25% of 12-hour standard. Initial calibration %RSD > 15%. Continuing calibration %D >20%. Detected in method blank. Detected in trip blank.
W18STMGP-TP21B-1.01.5RE	8260	Methylene chloride	J	Internal standard area count < 25% of 12-hour standard. Detected in method blank. Detected in equipment rinsate blank.
W18STMGP-TP21B-1.01.5RE	8260	Toluene	J	Internal standard area count < 25% of 12-hour standard.
W18STMGP-TP21B-1.01.5RE	8260	m/p-Xylenes	J	Internal standard area count < 25% of 12-hour standard.
W18STMGP-TP21B-1.01.5RE	8260	o-Xylene	J	Internal standard area count < 25% of 12-hour standard.
W18STMGP-TP21B-1.01.5RE	8260	All Non-Detected Compounds	R	Internal standard area count < 25% of 12-hour standard.

Table 2. Qualified Analytical Data (continued)

Data Qualifier Definitions:

J	Estimated data. The reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.
R	Rejected data.
U	The analyte was not detected.
UJ	The analyte was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.

Acronym Definitions:

CRDL	Contract Required Detection Limit	PDS	Post-Digestion Spike
%D	Percent Difference	RPD	Relative Percent Difference
LCS	Laboratory Control Sample	RRF	Relative Response Factor
MS	Matrix Spike	%RSD	Percent Relative Standard Deviation
MSD	Duplicate Matrix Spike	SDG	Sample Delivery Group

Table 3: Soil Samples Analyzed for Volatile Organic Analytes More Than 10 Days After Collection

Sample	Collected	Analyzed	Total Days
W18STMGP-B9-2022DL	9/18/2004	9/30/2004	12
W18STMGP-B10-68	9/18/2004	9/30/2004	12
W18STMGP-B10-810	9/18/2004	9/30/2004	12
W18STMGP-B11-2729	9/18/2004	9/29/2004	11
W18STMGP-B11-2729DL	9/18/2004	9/30/2004	12
W18STMGP-B11-3537	9/18/2004	9/30/2004	12
W18STMGP-B11-3739	9/18/2004	9/29/2004	11
W18STMGP-SB30-2830	10/30/2004	11/12/2004	13
W18STMGP-SB66-8486	10/30/2004	11/12/2004	13
W18STMGP-SB29-1113	11/6/2004	11/18/2004	12
W18STMGP-SB29-1113RE	11/6/2004	11/19/2004	13
W18STMGP-SB29-3436	11/7/2004	11/18/2004	11
W18STMGP-SB29-3839	11/7/2004	11/18/2004	11
W18STMGP-SB29-4850	11/7/2004	11/19/2004	12
W18STMGP-SB71-4850	11/7/2004	11/19/2004	12
W18STMGP-SB3-3.03.5	4/29/2005	5/31/2005	32 *
W18STMGP-TP1B-1.01.5	5/4/2005	5/17/2005	13
W18STMGP-TP21B-1.01.5RE	5/4/2005	5/17/2005	13
W18STMGP-SB4-79	5/5/2005	5/19/2005	14
W18STMGP-SB4-1921	5/5/2005	5/17/2005	12
W18STMGP-SB4-1921DL	5/5/2005	5/17/2005	12
SB-5A(31-33)	5/3/2005	5/16/2005	13
W18STMGP-SB3-5-7	5/6/2005	5/17/2005	11
W18STMGP-SB3-13-15	5/6/2005	5/17/2005	11
W18STMGP-SB2-19-20.5	5/6/2005	5/17/2005	11
W18STMGP-SB6-1315	5/12/2005	5/26/2005	14
W18STMGP-SB6-1315DL	5/12/2005	5/29/2005	17 *
W18STMGP-SB6-1921	5/12/2005	5/24/2005	12
W18STMGP-SB66-2426	5/12/2005	5/24/2005	12

Note: All positive results are flagged with "J" qualifiers and all non-detected results are flagged with "UJ" qualifiers in the samples listed in this table. Qualifications exceeding only the USEPA Region 2 holding time (i.e., greater than 10 day but less than 15 days) are not listed in Table 2.

* Exceeds method-specified holding time.

West 18th Street Data Usability Summary Report

1.0 Introduction

TRC Quality Assurance (QA) staff reviewed data November 28, 2005. One sample delivery group (SDG) and a total of sixty-four separate sample analyses were reviewed. Chemtech in Mountainside, New Jersey generated the analytical data. Table 1 presents a listing of these samples, their collection dates and times, analytical methods used to generate data, and associated laboratory identifiers.

2.0 Review Criteria

The data review criteria used for this assessment are the values given in the following United States Environmental Protection Agency (USEPA), Region 2 documents:

- Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999, *Validating Volatile Organic Compounds by SW-846 Method 8260B*
- SOP Number HW-22, Revision 2, June 2001, *Validating Semivolatile Organic Compounds by SW-846 Method 8270*
- SOP Number HW-2, Revision 11, January 1992, *Evaluation of Metals Data for the CLP Program*

Items reviewed during the assessment process for volatile organic and semivolatile organic data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Recoveries and Retention Times
- Laboratory Control Sample (LCS) Results
- Sample Quantitation and Reported Quantitation Limits
- Target Compound Identification

Items reviewed during the assessment process for metals data and cyanide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Detection Limit Standards
- Blanks
- Interference Check Samples

- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Duplicate Results
- Serial Dilutions

Qualified sample data are listed Table 2.

3.0 Data Review/Validation Results

3.1 Data Completeness

All requirements for full raw data reporting are met for the reported data packages. That is, the data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables, as requested on chain-of-custody forms.

3.2 Preservation and Holding Times

3.2.1 Volatile Organic Analyses

All criteria are met.

3.2.2 Semivolatile Organic Analyses

All criteria are met.

3.2.3 Cyanide Analyses

All criteria are met.

3.2.4 Metals Analyses

All criteria are met.

3.3 GC/MS Tunes

All USEPA Region II criteria are met for volatile and semivolatile organic analyses.

3.4 Initial and Continuing Calibrations

3.4.1 Volatile Organic Analyses

Percent relative standard deviation (%RSD) values for several compounds are greater than 15% in the initial calibration analyzed on October 16, 2005 from 14:44 to 17:11. Detected concentrations of methyl tert-butyl ether in sample MW-12A, MW-22A, and MW-5B as well as acetone in samples MW-34A and MW-5A are flagged with “J” qualifiers.

The percent difference (%D) value for chloroethane in the continuing calibration analyzed on October 16, 2005 at 13:11 is greater than twenty percent. This compound was not detected in any associated field samples and data are not qualified based on this finding.

3.4.2 Semivolatile Organic Analyses

%RSD values for several compounds are greater than 15% in the initial calibration analyzed on October 20, 2005 from 21:55 to 23:36. Detected concentrations of fluoranthene and pyrene in sample MW-24A as well as fluoranthene in sample MW24ADL are flagged with "J" qualifiers.

%D values for several analytes in the continuing calibrations analyzed on October 21, 2005 at 01:15; October 21, 2005 at 14:00; and October 22, 2005 at 01:56 are greater than twenty percent. These analytes are not detected in associated samples and data are not qualified based on these findings.

The non-detected results for 2,4-dinitrophenol in samples MW-24ADL and MW-5ADL are flagged with "R" qualifiers since the %D in the associated continuing calibration analyzed on October 22, 2005 at 22:15 is greater than 90%.

3.4.3 Cyanide Analyses

All criteria are met.

3.4.4 Metals Analyses

All criteria are met.

3.5.1 Blanks

3.5.1 Volatile Organic Analyses

All criteria are met.

3.5.2 Semivolatile Organic Analyses

Di-n-butylphthalate was detected (11 µg/kg) in the method blank associated with Method 8270C analyses. The reported concentrations of di-n-butylphthalate in samples MW-12A, MW-22A, MW-12B, MW-7A, MW-34A, MW-31A, MW-40A, MW-29A, MW-29ARE, MW-24A, MW-24ADL, and MW-5A may include significant measurement contributions from laboratory sources of contamination and are flagged with "J" qualifiers.

3.5.3 Cyanide Analyses

All criteria are met.

3.5.4 Metals Analyses

Copper, nickel, selenium, and thallium were detected in the preparation blank. Reported concentrations of copper in associated samples MW-12A, MW-7A, and MW-5A; copper, nickel, and thallium in sample MW-22A; copper and nickel in samples MW-12B, MW-34A, and MW-31A; copper, nickel, and selenium in sample MW-40A; and thallium in sample MW-29A likely

include significant measurement contributions from laboratory sources of contamination and are flagged with “J” qualifiers.

3.6 Surrogate Recoveries

3.6.1 Volatile Organic Analyses

All criteria are met.

3.6.2 Semivolatile Organic Analyses

Recovery of one acid extractable surrogate is below laboratory-defined control limits in sample MW-12B. Per USEPA Region 2 guidance, data are not qualified since all remaining surrogate recoveries are within acceptance criteria.

Recoveries of two acid extractable surrogate compounds are less than laboratory-specified limits in sample MW-29A. Additionally, one of these recoveries is less than 10%. Per USEPA Region 2 requirements, reported results for phenol, 2-chlorophenol, 2-methylphenol, 3+4-methylphenols, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol are flagged with “R” qualifiers in this sample.

Recoveries of two acid extractable surrogate compounds are less than 10% in sample MW-29ARE. Again, reported results for phenol, 2-chlorophenol, 2-methylphenol, 3+4-methylphenols, 2-nitrophenol, 2,4-dimethylphenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol are flagged with “R” qualifiers in sample MW-29ARE.

3.7 Matrix Spike/Matrix Spike Duplicates

Data are not qualified based on matrix spike (MS) and duplicate matrix spike (MSD) alone. MS/MSD recoveries were compared with associated LCS data. When LCS recoveries are compliant and MS/MSD recoveries fall outside applicable limits, matrix interferences are confirmed and data are qualified. Analyte specific trends were not evident from MS/MSD recoveries; therefore, data are qualified for the spiked sample only

3.7.1 Volatile Organic Analyses

Sample MW-40A was analyzed as an MS/MSD pair. All criteria are met.

3.7.2 Semivolatile Organic Analyses

Sample MW-40A was analyzed as an MS/MSD pair. Most recoveries fall within laboratory-derived limits; however, recoveries of caprolactam and 4-nitrophenol are less than acceptance criteria. Reported non-detected results for these compounds are flagged with “UJ”

qualifiers in sample MW-40A. As noted in Section 3.9.2 of this evaluation, the recovery of caprolactam is also low in the associated laboratory control sample.

3.7.3 Cyanide Analyses

Sample MW-40A was analyzed as an MS/MSD pair. All criteria are met.

3.7.4 Metals Analyses

Sample MW-40A was analyzed as an MS/MSD pair. All criteria are met.

3.8 Internal Standard Recoveries and Retention Times

3.8.1 Volatile Organic Analyses

All criteria are met.

3.8.2 Semivolatile Organic Analyses

All criteria are met.

3.9 Laboratory Control Samples

3.9.1 Volatile Organic Analyses

All criteria are met.

3.9.2 Semivolatile Organic Analyses

The recovery of caprolactam in the LCS is less than laboratory-specified limits. Reported non-detected results for caprolactam in samples MW-12A, MW-22A, MW-12B, MW-7A, MW-34A, MW-31A, MW-40A, MW-29A, MW-29ARE, MW-24A, MW-24ADL, MW-5A, MW-5ADL, MW-5B, and FIELDBLANK are flagged with “UJ” qualifiers.

3.9.3 Cyanide Analyses

All criteria are met.

3.9.4 Metals Analyses

All criteria are met.

3.10 Sample Quantitation and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Select target analytes results were reported below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Some samples were analyzed at dilutions. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

3.10.1 Metals Analyses

Recoveries of mercury and lead are less than USEPA Region 2 limits in the reported detection limit standard. Reported non-detected results for these metals are flagged with "UJ" qualifiers and detected concentrations are flagged with "J" qualifiers in associated field samples MW-12A, MW-22A, MW-12B, MW-7A, MW-34A, MW-31A, MW-40A, MW-29A, MW-24A, MW-5A, MW-5B, and FIELDBLANK .

3.11 Target Compound Identification

3.11.1 Volatile Organic Analyses

All criteria are met.

3.11.2 Semivolatile Organic Analyses

All criteria are met.

3.11.3 Cyanide Analyses

All criteria are met.

3.11.4 Metals Analyses

The reported percent difference (%D) value for copper and zinc are greater than USEPA Region 2 limits in the serial dilution performed using sample MW-40A. Reported positive concentrations of copper and zinc in associated samples MW-12A, MW-22A, MW-12B, MW-7A, MW-34A, MW-31A, MW-40A, and MW-5A are flagged with "J" qualifiers.

3.12 Other Issues

3.12.1 Metals Analyses

Sample MW-40A was analyzed as a laboratory duplicate. The RPD value for zinc is greater than 10. Therefore, the reported concentrations of zinc are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers in samples MW-12A, MW-22A, MW-12B, MW-7A, MW-34A, MW-31A, MW-40A, MW-29A, MW-24A, MW-5A, MW-5B, and FIELDBLANK.

DATA ASSESSMENT NARRATIVE TABLES

Table 1: Samples Reviewed and Associated Analytical Methods

Matrix	Sample ID	Collected		Methods					Lab Sample ID
		Date	Time						
Water	MW-12A	10/11/05	10:27	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-01
Water	MW-22A	10/11/05	10:30	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-02
Water	MW-12B	10/11/05	12:00	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-03
Water	MW-7A	10/11/05	12:25	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-04
Water	MW-34A	10/11/05	15:20	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-05
Water	MW-31A	10/11/05	15:30	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-06
Water	TRIPBLANK	10/11/05	--	SW8260	--	--	--	--	T5205-07
Water	MW-40A	10/11/05	17:30	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-08
Water	MW-29A	10/12/05	10:02	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-11
Water	MW-29ARE	10/12/05	10:02	--	SW8270	--	--	--	T5205-11RE
Water	MW-24A	10/12/05	12:05	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-12
Water	MW-24ADL	10/12/05	12:05	--	SW8270	--	--	--	T5205-12DL
Water	MW-5A	10/12/05	14:32	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-13
Water	MW-5ADL	10/12/05	14:32	--	SW8270	--	--	--	T5205-13DL
Water	MW-5B	10/12/05	14:55	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-14
Water	FIELDBLANK	10/12/05	15:35	SW8260	SW8270	SW9012	SW6010	SW7470	T5205-15

SW *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, (U.S. Environmental Protection Agency)

8260 Method 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GCMS)

8270 Method 8270C - Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

9012 Method 9012A – Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)

6010 Method 6010B – Inductively Coupled Plasma-Atomic Emission Spectrometry

7470 Method 7470A – Mercury in Liquid Waste (Manual Cold-Vapor Technique)

Table 2: Qualified Analytical Data

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
MW-5A	8260	Acetone	J	Initial calibration %RSD > 15%.
MW-5A	8270	Caprolactam	UJ	Low LCS recovery.
MW-5A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-5A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-5A	6010	Lead	J	Low detection limit standard recovery.
MW-5A	7470	Mercury	J	Low detection limit standard recovery.
MW-5A	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
MW-5ADL	8270	Caprolactam	UJ	Low LCS recovery.
MW-5ADL	8270	2,4-Dinitrophenol	R	Initial calibration %RSD > 90%.
MW-5B	8270	Caprolactam	UJ	Low LCS recovery.
MW-5B	8260	Methyl tert-butyl ether	J	Initial calibration %RSD > 15%.
MW-5B	6010	Lead	UJ	Low detection limit standard recovery.
MW-5B	7470	Mercury	UJ	Low detection limit standard recovery.
MW-5B	6010	Zinc	UJ	High laboratory duplicate RPD.
MW-7A	8270	Caprolactam	UJ	Low LCS recovery.
MW-7A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-7A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-7A	6010	Lead	J	Low detection limit standard recovery.
MW-7A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-7A	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
MW-12A	8260	Methyl tert-butyl ether	J	Initial calibration %RSD > 15%.
MW-12A	8270	Caprolactam	UJ	Low LCS recovery.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
MW-12A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-12A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-12A	6010	Lead	UJ	Low detection limit standard recovery.
MW-12A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-12A	6010	Zinc	UJ	High laboratory duplicate RPD.
MW-12B	8270	Caprolactam	UJ	Low LCS recovery.
MW-12B	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-12B	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-12B	6010	Lead	UJ	Low detection limit standard recovery.
MW-12B	7470	Mercury	J	Low detection limit standard recovery.
MW-12B	6010	Nickel	J	Detected in associated method blank.
MW-12B	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
MW-22A	8260	Methyl tert-butyl ether	J	Initial calibration %RSD > 15%.
MW-22A	8270	Caprolactam	UJ	Low LCS recovery.
MW-22A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-22A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-22A	6010	Lead	UJ	Low detection limit standard recovery.
MW-22A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-22A	6010	Nickel	J	Detected in associated method blank.
MW-22A	6010	Thallium	J	Detected in associated method blank.
MW-22A	6010	Zinc	UJ	High laboratory duplicate RPD.
MW-24A	8270	Caprolactam	UJ	Low LCS recovery.
MW-24A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-24A	8270	Fluoranthene	J	Initial calibration %RSD > 15%.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
MW-24A	8270	Pyrene	J	Initial calibration %RSD > 15%.
MW-24A	6010	Lead	J	Low detection limit standard recovery.
MW-24A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-24A	6010	Zinc	UJ	High laboratory duplicate RPD.
MW-24ADL	8270	Caprolactam	UJ	Low LCS recovery.
MW-24ADL	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-24ADL	8270	Fluoranthene	J	Initial calibration %RSD > 15%.
MW-24ADL	8270	2,4-Dinitrophenol	R	Initial calibration %RSD > 90%.
MW-29A	8270	Phenol	R	Surrogate recovery < 10%.
MW-29A	8270	2-Chlorophenol	R	Surrogate recovery < 10%.
MW-29A	8270	2-Methylphenol	R	Surrogate recovery < 10%.
MW-29A	8270	3+4-Methylphenol	R	Surrogate recovery < 10%.
MW-29A	8270	2-Nitrophenol	R	Surrogate recovery < 10%.
MW-29A	8270	2,4-Dimethylphenol	R	Surrogate recovery < 10%.
MW-29A	8270	2,4-Dichlorophenol	R	Surrogate recovery < 10%.
MW-29A	8270	Caprolactam	UJ	Low LCS recovery.
MW-29A	8270	4-Chloro-3-methylphenol	R	Surrogate recovery < 10%.
MW-29A	8270	2,4,6-Trichlorophenol	R	Surrogate recovery < 10%.
MW-29A	8270	2,4,5-Trichlorophenol	R	Surrogate recovery < 10%.
MW-29A	8270	2,4-Dinitrophenol	R	Surrogate recovery < 10%.
MW-29A	8270	4-Nitrophenol	R	Surrogate recovery < 10%.
MW-29A	8270	4,6-Dinitro-2-methylphenol	R	Surrogate recovery < 10%.
MW-29A	8270	Pentachlorophenol	R	Surrogate recovery < 10%.
MW-29A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-29A	6010	Lead	J	Low detection limit standard recovery.
MW-29A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-29A	6010	Thallium	J	Detected in associated method blank.
MW-29A	6010	Zinc	UJ	High laboratory duplicate RPD.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
MW-29ARE	8270	Phenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2-Chlorophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2-Methylphenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	3+4-Methylphenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2-Nitrophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2,4-Dimethylphenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2,4-Dichlorophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	Caprolactam	UJ	Low LCS recovery.
MW-29ARE	8270	4-Chloro-3-methylphenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2,4,6-Trichlorophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2,4,5-Trichlorophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	2,4-Dinitrophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	4-Nitrophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	4,6-Dinitro-2-methylphenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	Pentachlorophenol	R	Surrogate recovery < 10%.
MW-29ARE	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-31A	8270	Caprolactam	UJ	Low LCS recovery.
MW-31A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-31A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-31A	6010	Lead	J	Low detection limit standard recovery.
MW-31A	7470	Mercury	UJ	Low detection limit standard recovery.
MW-31A	6010	Nickel	J	Detected in associated method blank.
MW-31A	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
MW-34A	8260	Acetone	J	Initial calibration %RSD > 15%.
MW-34A	8270	Caprolactam	UJ	Low LCS recovery.
MW-34A	8270	Di-n-butylphthalate	J	Detected in associated method blank.

Table 2. Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
MW-34A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-34A	6010	Lead	J	Low detection limit standard recovery.
MW-34A	7470	Mercury	J	Low detection limit standard recovery.
MW-34A	6010	Nickel	J	Detected in associated method blank.
MW-34A	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
MW-40A	8270	Caprolactam	UJ	Low MS/MSD recoveries. Low LCS recovery.
MW-40A	8270	4-Nitrophenol	UJ	Low MS/MSD recoveries.
MW-40A	8270	Di-n-butylphthalate	J	Detected in associated method blank.
MW-40A	6010	Copper	J	Detected in associated method blank. High serial dilution %D.
MW-40A	6010	Lead	UJ	Low detection limit standard recovery.
MW-40A	7470	Mercury	J	Low detection limit standard recovery.
MW-40A	6010	Nickel	J	Detected in associated method blank.
MW-40A	6010	Selenium	J	Detected in associated method blank.
MW-40A	6010	Zinc	J	High serial dilution %D. High laboratory duplicate RPD.
FIELDBLANK	8270	Caprolactam	UJ	Low LCS recovery.
FIELDBLANK	6010	Lead	UJ	Low detection limit standard recovery.
FIELDBLANK	7470	Mercury	UJ	Low detection limit standard recovery.
FIELDBLANK	6010	Zinc	UJ	High laboratory duplicate RPD.

Table 2. Qualified Analytical Data (continued)

Data Qualifier Definitions:

J	Estimated data. The reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.
R	Rejected data.
UJ	The analyte was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.

Acronym Definitions:

CRDL	Contract Required Detection Limit	PDS	Post-Digestion Spike
%D	Percent Difference	RPD	Relative Percent Difference
LCS	Laboratory Control Sample	RRF	Relative Response Factor
MS	Matrix Spike	%RSD	Percent Relative Standard Deviation
MSD	Duplicate Matrix Spike	SDG	Sample Delivery Group

Data Assessment Narrative

1.0 Introduction

TRC Quality Assurance (QA) staff reviewed data on August 18, 19, 20, 25, 26, 27, 30, and 31, 2004 as well as September 1 and 2, 2004. A total of eight sample delivery groups (SDGs) were reviewed that include eighty-one field samples (including field blanks). Chemtech in Mountainside, New Jersey generated the analytical data. Table 1 presents a listing of these samples, the dates and times they were collected, analytical methods used to generate data, and associated laboratory identifiers.

2.0 Review Criteria

The data review criteria used for this assessment are the values given in the following United States Environmental Protection Agency, Region 2 documents:

- Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999, *Validating Volatile Organic Compounds by SW-846 Method 8260B*
- SOP Number HW-22, Revision 2, June 2001, *Validating Semivolatile Organic Compounds by SW-846 Method 8270*
- SOP Number 23B, Revision 1.0, May 2002, *Validating PCB Compounds by SW-846 Method 8082*
- SOP Number HW-2, Revision 11, January 1992, *Evaluation of Metals Data for the CLP Program*

Items reviewed during the assessment process for volatile organic data, semivolatile organic data, and polychlorinated biphenyl (PCB) data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Internal Standard Recoveries and Retention Times
- Laboratory Control Sample (LCS) Results
- Sample Quantitation and Reported Quantitation Limits
- Target Compound Identification

Items reviewed during the assessment process for metals data and cyanide data include (as applicable):

- Data Completeness
- Holding Times and Sample Preservation

- Initial and Continuing Calibrations
- Detection Limit Standards
- Blanks
- Interference Check Samples
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Duplicate Results
- Serial Dilutions

Qualified sample data are listed Table 2.

3.0 Data Review/Validation Results

3.1 Data Completeness

3.1.1 Data Completeness - Volatile Organic Analytes

All requirements for full raw data reporting are met for the reported data packages. That is, the data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables, as requested on chain-of-custody forms.

It is noted that TCLP extraction dates are not reported; however, the laboratory-generated case narratives state “Holding Times met requirements.”

3.1.2 Data Completeness – Semivolatile Organic Analytes

The data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

It is noted that TCLP extraction dates are not reported; however, the laboratory-generated case narratives state “Holding Times met requirements.”

3.1.3 Data Completeness – Polychlorinated Biphenyls, Herbicides, and Pesticides

The data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

3.1.4 Data Completeness – Metals

The data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

3.1.5 Data Completeness – Cyanide and Other General Chemistry Analyses

The data packages were complete as defined under the requirements for the NYSDEC ASP Category B deliverables.

23.2 Preservation and Holding Times

3.2.1 Preservation and Holding Time – Volatile Organic Analytes

For a majority of volatile analyses, all holding time and sample preservation criteria are met.

Volatile GC/MS analyses of several soil samples occurred more than 10 days after sample collection. These affected samples are presented in Table 3. All analyses occurred within the method-defined holding time of 14 days but outside the USEPA Region II holding time (defined in SOP No. HW-24) of 10 days. Therefore, all positive results in the samples listed in Table 3 are flagged with a "J" qualifier and all non-detected results are flagged with a "UJ" qualifier, as noted in Table 2.

3.2.2 Preservation and Holding Time – Semivolatile Organic Analytes

All criteria are met.

3.2.3 Preservation and Holding Time – Polychlorinated Biphenyls, Herbicides, and Pesticides

Samples W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, and W18ST-COMP-4-28-04 were collected on April 28, 2004. These samples were extracted for PCB analyses on May 13, 2004. The time elapsed between collection and extraction is 15 days. EPA Region II requirements are that soil samples must be extracted within 14 days of collection. Reported concentrations of PCBs in the listed samples are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers.

Samples W18STMGP-B19-57, W18STMGP-B19-1719, W18STMGP-B20-911, W18STMGP-B20-1315, W18STMGP-B20-1920, W18STMGP-B20-4143, W18STMGP-B20-4951 were collected on May 2, 2004. These samples were extracted for herbicide analyses on May 25, 2004. The time elapsed between collection and extraction is 23 days. SW846 Chapter 4 requirements are that soil samples must be extracted within 14 days of collection. Because herbicides were not detected in any field sample, all non-detected results are flagged with "UJ" qualifiers.

Samples W18STMGP-B19-57, W18STMGP-B19-1719, W18STMGP-B20-911, W18STMGP-B20-1315, W18STMGP-B20-1920, W18STMGP-B20-4143, W18STMGP-B20-4951 were collected on May 2, 2004. These samples were extracted for pesticide analyses on May 25, 2004. The time elapsed between collection and extraction is 23 days. SW846 Chapter 4 requirements are that soil samples must be extracted within 14 days of collection. Because pesticides were not detected in any field sample, all non-detected results are flagged with "UJ" qualifiers.

3.2.4 Preservation and Holding Time – Metals

All criteria are met.

3.2.5 Preservation and Holding Time – Cyanide and Other General Chemistry Analyses

All criteria are met.

3.2 GC/MS Tunes

3.2.1 GC/MS Tunes – Volatile Organic Analytes

All USEPA Region II criteria are met.

3.2.2 GC/MS Tunes – Semivolatile Organic Analytes

All USEPA Region II criteria are met.

3.3 Initial and Continuing Calibrations

3.3.1 Initial and Continuing Calibrations – Volatile Organic Analytes

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 6, 2004 from 16:31 to 18:26. Reported concentrations of acetone and toluene in samples W18ST-B25-3334 and W18ST-B25-3334DL are flagged with "J" qualifiers.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 6, 2004 from 16:31 to 18:26. Reported concentrations of toluene in samples W18ST-B23-15 and W18ST-B50-810 are flagged with "J" qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 11, 2004 at 14:49. Reported concentrations of acetone in samples W18ST-B23-15 and W18ST-B50-810 are flagged with "J" qualifiers.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 3, 2004 from 18:54 to 20:51. Reported concentrations of toluene in samples W18ST-B51-14DL, W18ST-B51-22DL, W18ST-B49-1012DL, W18ST-COMP-4-28-04DL, W18ST-B49-1415DL, and W18ST-B49-1718DL are flagged with "J" qualifiers.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 6, 2004 from 14:37 to 16:33. Reported concentrations of carbon disulfide, cyclohexane, methylcyclohexane, and m-/p-xylenes in samples W18ST-B22-1113, W18ST-B22-1517, W18ST-B22-2627, W18ST-B22-2223, W18ST-B23-17, W18ST-B23-24, W18ST-B51-22, W18ST-B51-6, W18ST-B51-14, W18ST-B22-2223DL, W18ST-B23-9, W18ST-B23-17DL, W18ST-B23-24DL, W18ST-B51-6DL, W18ST-B51-33, W18ST-B50-2123, W18ST-B50-2627,

W18ST-B49-1012, W18ST-B49-1415, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04 are flagged with “J” qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 8, 2004 at 14:49. reported concentrations of methylene chloride, carbon disulfide, and methylcyclohexane in samples W18ST-B23-9, W18ST-B23-17DL, W18ST-B23-24DL, W18ST-B50-2627, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04 are flagged with “J” qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 15, 2004 at 15:06. The %D value for isopropylbenzene is 215.2 %. Reported concentration of carbon disulfide in sample W18STMGP-B36-57 is flagged with a “J” qualifier. Reported results for isopropylbenzene in samples W18STMGP-B36-57, W18STMGP-B36-1719, W18STMGP-B36-3335DL, W18STMGP-B36-3335,, W18STMGP-B73-1719, W18STMGP-TP4-56, and W18STMGP-B34-5 are flagged with “R” qualifiers.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 18, 2004 from 16:37 to 18:02. The reported concentration of acetone in sample W18STMGP-B34-3 is flagged with a “J” qualifier.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on May 25, 2004 from 14:33 to 16:13. Reported concentrations of acetone in samples W18STMGP-B38-1315, W18STMGP-B33-3537, W18STMGP-B33-3537DL, and W18STMGP-B33-3941 are flagged with “J” qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 11, 2004 at 12:00. The reported concentration of carbon disulfide in sample W18ST-B50-810 is flagged with a “J” qualifier.

3.3.2 Initial and Continuing Calibrations – Semivolatile Organic Analytes

The %D value for several analytes in the continuing calibration analyzed on May 4, 2004 at 23:53 are greater than 20%. The reported concentrations of benzo(g,h,i)perylene and dibenz(a,h)anthracene in samples W18ST-B24-2527DL, W18ST-36-34DL, W18ST-COMP-4-27-04DL, and W18ST-B25-2022DL are flagged with “J” qualifiers.

The % RSD values for several analytes are greater than 15% in the initial calibration analyzed on April 30, 2004 from 11:42 to 15:10. Reported concentrations of naphthalene, 2-methylnaphthalene, 1,1-biphenyl, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, di-n-butylphthalate, benzo(a)anthracene, and bis(2-ethylhexyl)phthalate in samples W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-3334, W18ST-B33-45, W18ST-B32-45, W18ST-B38-45, W18ST-B22-57,

W18ST-B25-3334DL, W18ST-B33-45DL, and W18ST-B22-57DL are flagged with "J" qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 4, 2004 at 16:27. The reported concentrations of benzo(g,h,i)perylene in samples W18ST-B33-45DL and W18ST-B22-57DL are flagged with "J" qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 3, 2004 at 23:40. The reported concentrations of 3-/4-methylphenols, naphthalene, 2-methylnaphthalene, fluorene, carbazole, and benzo(k)fluoranthene in samples W18ST-B22-1113, W18ST-B22-1517, W18ST-B22-2223, W18ST-B23-9, W18ST-B23-15, W18ST-B23-17, W18ST-B23-24, W18ST-B51-14, W18ST-B51-22, W18ST-B51-33, W18ST-B50-2123, W18ST-B49-1012, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04 are flagged with "J" qualifiers.

Several %D values are greater than 20% in the continuing calibration analyzed on May 4, 2004 at 18:25. The reported concentrations of fluorene and benzo(k)fluoranthene in samples W18ST-B22-1517DL, W18ST-B23-9DL, W18ST-B23-15DL, W18ST-B51-14DL, W18ST-B51-22DL, W18ST-B51-22DL2, W18ST-B51-33DL, W18ST-B50-2123DL, W18ST-B49-1012DL, W18ST-B49-1012DL2, W18ST-B49-1415, W18ST-B49-1718DL, W18ST-B49-1718DL2, W18ST-B49-2324DL, W18ST-COMP-4-28-04DL, W18ST-COMP-4-28-04DL2, W18ST-B51-6, and W18ST-B51-14DL2 are flagged with "J" qualifiers.

The average relative response factor (RRF) for pentachlorophenol is less than 0.050 in the initial calibration analyzed on June 10, 2004 from 16:46 to 19:28. The response factor (RF) for pentachlorophenol in the continuing calibration analyzed on June 11, 2004 at 15:23 is also less than 0.050. Therefore, reported concentrations of TCLP pentachlorophenol in samples W18STMGP-42804A, W18STMGP-42804B, W18STMGP-DECON-52204, and W18STMGP-52204 are flagged with "R" qualifiers.

3.3.3 Initial and Continuing Calibrations – Polychlorinated Biphenyls, Herbicides, and Pesticides

Initial and continuing calibration data are reported for two columns. The criteria to be used to qualify data are:

- Sample data are to be qualified when initial calibration acceptance criteria are not met on both columns
- Sample data are to be qualified when continuing calibration verification limits are not met on both columns

Since criteria are met for all parameters on at least one column for each calibration analysis, PCB and herbicide data were not qualified based on calibration results.

Percent difference values for pesticides 4,4'-DDT and methoxychlor are greater than 20% on both columns in the ending calibration verification analysis. All results in samples reported in SDG S2676 are flagged with "UJ" qualifiers.

3.3.4 Initial and Continuing Calibrations – Metals

All criteria are met.

3.3.5 Initial and Continuing Calibrations – Cyanide and Other General Chemistry Analyses

All criteria are met.

3.4 Detection Limit Standards

3.4.1 Detection Limit Standards – Metals

The percent recovery for mercury in the Contract Required Detection Limit (CRDL) standard analyzed on May 3, 2004 at 09:31 and associated with SDG S2370 is less than 50%. According to EPA Region II requirements, the reported result for mercury in sample W18ST-RB-01 is flagged with an "R" qualifier.

The percent recovery for mercury in the CRDL standard analyzed on May 6, 2004 at 11:28 is greater than acceptance criteria. All positive results for mercury are flagged with "J" qualifiers in samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-3233, W18ST-B25-3334, W18ST-B32-45, W18ST-B38-34, W18ST-B38-45, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-B22-57, W18ST-B24-2527, W18ST-B22-1113,W18ST-B22-1517, W18ST-B22-2223, W18ST-B22-2627, W18ST-B23-9, W18ST-B23-15, W18ST-B23-17, W18ST-B23-24, W18ST-B51-6, W18ST-B51-14, W18ST-B51-22, W18ST-B51-33, W18ST-B50-810, W18ST-B50-2123, W18ST-B50-2627, W18ST-B49-1012, W18ST-B49-1415, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04.

The percent recovery for mercury in the CRDL standard analyzed on May 7, 2004 at 11:53 is greater than acceptance criteria. All positive results for mercury are flagged with "J" qualifiers in samples W18ST-B50-23, W18ST-B33-45, and W18ST-B36-34.

Recovery of chromium is greater than EPA Region II limits and recovery of selenium is less than limits in the CRDL standard analyzed on May 10, 2004 at 10:24. All positive results for chromium and selenium are flagged with "J" qualifiers and non-detected results for selenium are flagged with "UJ" qualifiers in samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-3233, W18ST-B25-3334, W18ST-B50-23, W18ST-B33-45, W18ST-B32-45, W18ST-B38-34, W18ST-B38-45, W18ST-B36-34, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-

B22-57, W18ST-B24-2527, W18ST-B22-1113, W18ST-B22-1517, W18ST-B22-2223, W18ST-B22-2627, W18ST-B23-9, W18ST-B23-15, W18ST-B23-17, W18ST-B23-24, W18ST-B51-6, W18ST-B51-14, W18ST-B51-22, W18ST-B51-33, W18ST-B50-810, W18ST-B50-2123, W18ST-B50-2627, W18ST-B49-1012, W18ST-B49-1415, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04.

Recovery of thallium in the CRDL standard analyzed on May 17, 2004 at 10:24 is less than applicable limits. Because thallium was not detected in any associated sample, reported results for thallium in samples W18STMGP-B36-57, W18STMGP-B36-1719, W18STMGP-B36-2527, W18STMGP-B36-3335, W18STMGP-B73-1719, W18STMGP-TP4-56, W18STMGP-B34-3, and W18STMGP-B34-5 are flagged with "UJ" qualifiers.

Recovery of mercury in the CRDL standard analyzed on May 20, 2004 at 11:19 is less than applicable limits. Recovery of lead in the CRDL standard analyzed on May 26, 2004 at 19:21 is greater than EPA Region II limits. Since both mercury and lead were detected in all associated samples, reported results are flagged with "J" qualifiers in samples W18STMGP-B38-1315, W18STMGP-B38-2123, W18STMGP-B33-1113, W18STMGP-B33-1315, W18STMGP-B33-3537, and W18STMGP-B33-3941.

Recovery of TCLP mercury in the CRDL standard analyzed on May 20, 2004 at 08:30 is less than EPA Region II limits. The reported non-detected result for TCLP mercury in sample W18STMGP-COMP-5-16-04 is flagged with a "UJ" qualifier.

Recovery of TCLP mercury in the CRDL standard analyzed on May 26, 2004 at 16:27 is greater than EPA Region II limits. Reported concentrations of TCLP mercury in samples W18STMGP-DECON-4-27-04, W18STMGP-DECON-4-28-04, W18STMGP-DECON-5-8-04, W18STMGP-DECON-5-16-04A, and W18STMGP-DECON-5-16-04B are flagged with "J" qualifiers.

Recovery of TCLP mercury in the CRDL standard analyzed on May 28, 2004 at 09:58 is reported as 300%. The reported concentration of TCLP mercury in samples W18STMGP-DECON-4-26-04 is flagged with an "R" qualifier.

Recovery of TCLP lead in the CRDL standard analyzed on June 14, 2004 at 11:35 is less than EPA Region II limits. Reported concentrations of TCLP lead in samples W18STMGP-42804A, W18STMGP-42804B, W18STMGP-DECON-52204, and W18STMGP-52204 are flagged with "J" qualifier and non-detected results are flagged with "UJ" qualifiers.

3.5 Blanks

3.5.1 Blanks – Volatile Organic Analytes

All criteria were met.

3.5.2 Blanks – Semivolatile Organic Analytes

All criteria were met.

3.5.3 Blanks – Polychlorinated Biphenyls, Herbicides, and Pesticides

All criteria were met.

3.5.4 Blanks – Metals

All criteria were met.

3.5.5 Blanks – Cyanide and Other General Chemistry Analyses

All criteria were met.

3.6 Interference Check Samples

3.6.1 Interference Check Samples – Metals

All criteria were met

3.7 Surrogate Recoveries

3.7.1 Surrogate Recoveries – Volatile Organic Analytes

Recovery of 1,2-dichloroethane-d4 is less than 10% in sample W18ST-B51-22. Therefore, reported concentrations of target analytes are flagged with "J" qualifiers and non-detected analytes are flagged with "R" qualifiers in this analysis.

Recovery of 4-bromofluorobenzene is less than EPA Region II limits in sample W18STMGP-B73-1719RE. Because target analytes were not detected in this sample, all results are flagged with "UJ" qualifiers.

3.7.2 Surrogate Recoveries – Semivolatile Organic Analytes

While some surrogate recoveries fall outside of applicable limits, all USEPA Region II criteria are met and data were not qualified.

3.7.3 Surrogate Recoveries – Polychlorinated Biphenyls, Herbicides, and Pesticides

While some surrogate recoveries fall outside of applicable limits, all USEPA Region II criteria are met and data were not qualified.

3.8 Matrix Spike/Matrix Spike Duplicates

Data were not qualified based on matrix spike (MS) and duplicate matrix spike (MSD) alone. MS/MSD recoveries were compared with associated LCS data. When LCS recoveries are compliant and MS/MSD recoveries fall outside applicable limits, matrix interferences are confirmed and data are qualified. Unless otherwise noted, it is assumed that sample matrices are

sufficiently similar to qualify all field samples within a given SDG when aberrant recoveries are exhibited in MS/MSD analyses performed using a sample from the West 18th Street MGP site.

3.8.1 Matrix Spike/Matrix Spike Duplicates – Volatile Organic Analytes

Recoveries of toluene are greater than laboratory-defined limits in MS analyses of sample W18ST-B24-2527. Detected results for toluene in all soil samples in SDG 2370 are flagged with "J" qualifiers.

Recoveries of 1,1-dichloroethene are lower than laboratory-defined limits in the MS analysis of sample W18ST-B49-1415 and greater than limits in the associated MSD analysis. Because the direction is not confirmed, the aberration may be (at least in part) due to laboratory error. Data were not qualified.

3.8.2 Matrix Spike/Matrix Spike Duplicates – Semivolatile Organic Analytes

Recoveries of fluoranthene and indeno(1,2,3-cd)pyrene are lower than laboratory-defined limits in MS/MSD analyses of sample W18ST-B24-2527. Reported concentrations of the listed analytes are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers in associated samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-2527, W18ST-B24-2527DL, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-2022DL, W18ST-B25-2022DL2, W18ST-B25-3233, W18ST-B25-3233DL, W18ST-B25-3334, W18ST-B25-3334DL, W18ST-B50-23, W18ST-B33-45, W18ST-B33-45DL, W18ST-B32-45, W18ST-B38-34, W18ST-B38-34DL, W18ST-B38-45, W18ST-B36-34, W18ST-B36-34DL, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-COMP-4-27-04DL, W18ST-B22-57, and W18ST-B22-57DL.

Recoveries of hexachlorocyclopentadiene, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene are less than laboratory-defined limits and recovery of benzo(b)fluoranthene is greater than acceptance criteria in MS/MSD analyses of sample W18STMGP-TP4-56. Reported concentrations of these analytes in samples are flagged with "J" qualifiers (only positive results of benzo(b)fluoranthene are flagged with "J" qualifiers) and non-detected results are flagged with "UJ" qualifiers in associated samples W18STMGP-B36-57, W18STMGP-B36-57DL, W18STMGP-B36-1719, W18STMGP-B36-2527, W18STMGP-B36-2527DL, W18STMGP-B36-2527DL2, W18STMGP-B36-3335, W18STMGP-B73-1719, W18STMGP-TP4-56, W18STMGP-TP4-56DL, W18STMGP-B34-3, and W18STMGP-B34-5.

3.8.3 Matrix Spike/Matrix Spike Duplicates – Polychlorinated Biphenyls, Herbicides, and Pesticides

Recoveries of target PCB analytes spiked into sample W18ST-COMP-4-24-04 are greater than laboratory-derived acceptance criteria. The reported concentration of Aroclor 1260 in sample W18ST-COMP-4-24-04 is flagged with a "J" qualifier.

Recoveries of herbicides 2,4-D and 2,4,5-TP fall below laboratory-specified recovery limits in MS/MSD analyses of sample W18STMGP-B20-4951. The reported non-detected results for all samples analyzed for herbicides in SDG S2676 are flagged with "UJ" qualifiers.

Recoveries of pesticides endrin aldehyde and endrin sulfate are less than laboratory-defined recovery limits in MS/MSD analyses of sample W18STMGP-B20-4951. Since these compounds were not detected, reported results for were flagged with "UJ" qualifiers in samples W18STMGP-B19-1719, W18STMGP-B19-57, W18STMGP-B20-911, W18STMGP-B20-1315, W18STMGP-B20-1920, W18STMGP-B20-4143, and W18STMGP-B20-4951.

3.8.4 Matrix Spike/Matrix Spike Duplicates – Metals

Recoveries of zinc are low in the matrix spike performed on sample W18ST-B24-2527. Reported concentrations of zinc in samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-3233, W18ST-B25-3334, W18ST-B50-23, W18ST-B33-45, W18ST-B32-45, W18ST-B38-34, W18ST-B38-45, W18ST-B36-34, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-B22-57, and W18ST-B24-2527 are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers.

The post-digestion spike (PDS) recovery of zinc in sample W18ST-B24-2527 is less than 75%. Reported concentrations of zinc in samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-3233, W18ST-B25-3334, W18ST-B50-23, W18ST-B33-45, W18ST-B32-45, W18ST-B38-34, W18ST-B38-45, W18ST-B36-34, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-B22-57, and W18ST-B24-2527 are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers.

Recoveries of mercury are high in matrix spike analyses performed on sample W18ST-B49-1415. Reported concentrations of mercury in samples W18ST-B22-1113, W18ST-B22-1517, W18ST-B22-2223, W18ST-B22-2627, W18ST-B23-9, W18ST-B23-15, W18ST-B23-17, W18ST-B23-24, W18ST-B51-6, W18ST-B51-14, W18ST-B51-22, W18ST-B51-33, W18ST-B50-810, W18ST-B50-2123, W18ST-B50-2627, W18ST-B49-1012, W18ST-B49-1415, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04 are flagged with "J" qualifiers.

Recoveries of antimony, copper, and silver are low in matrix spike analyses performed on sample W18STMGP-TP4-56. Reported concentrations of these analytes in samples WW18STMGP-B36-57, W18STMGP-B36-1719, W18STMGP-B36-2527, W18STMGP-B36-3335, W18STMGP-B73-1719, W18STMGP-TP4-56, W18STMGP-B34-3, and W18STMGP-B34-5 are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers.

Recoveries of antimony and copper are low in a PDS analysis performed on sample W18STMGP-TP4-56. Reported concentrations of these analytes in samples WW18STMGP-B36-57, W18STMGP-B36-1719, W18STMGP-B36-2527, W18STMGP-B36-3335, W18STMGP-B73-1719, W18STMGP-TP4-56, W18STMGP-B34-3, and W18STMGP-B34-5 are flagged with "J" qualifiers.

Recoveries of TCLP silver are low in the MS analyses performed on sample W18STMGP-COMP-5-16-04. The reported non-detected result for TCLP silver in this sample is flagged with a "UJ" qualifier.

3.8.5 Matrix Spike/Matrix Spike Duplicates – Cyanide and Other General Chemistry Analyses

All criteria were met.

3.9 Internal Standard Recoveries and Retention Times

3.9.1 Internal Standards – Volatile Organic Analytes

Area counts for all internal standards in sample W18ST-B24-2527 are less than 50% the count in the associated 12-hour standard. Reported concentrations of all detected compounds are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers in this sample. It is noted that all internal standard recoveries are within method-defined limits in the ten-fold dilution of this sample.

Area counts for all internal standards in sample W18ST-B25-3334 are less than 50% the count in the associated 12-hour standard. Reported concentrations of all detected compounds are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers in this sample. It is noted that all internal standard recoveries are within method-defined limits in the five-fold dilution of this sample.

Recovery of internal standard 1,4-dichlorobenzene-d_4 in sample W18ST-B33-45 is less than 50% of the recovery in the associated 12-hour standard. All associated compounds in this sample were not detected. Therefore, results for isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "UJ" qualifiers.

Recoveries of internal standard compounds 1,4-difluorobenzene, chlorobenzene-d_5, and 1,4-dichlorobenzene-d_4 in sample W18ST-B22-2223 are less than 50% of the recoveries in the associated 12-hour standard. Reported concentrations of benzene, toluene, ethylbenzene, m-/p-xylenes, o-xylene, and isopropylbenzene are flagged with "J" qualifiers. Reported non-detected results for carbon tetrachloride, 1,2,-dichloroethane, trichloroethene, 1,2-dichloropropane, bromodichloromethane, 4-methyl-2-pentanone, trans-1,3-dichloropropene, cis-1,3-dichloropropene, 1,1,2-trichloroethane, 2-hexanone, dibromochloromethane, 1,2-dibromoethane, tetrachloroethene, chlorobenzene, styrene, bromoform, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "UJ" qualifiers.

Recoveries of all internal standard compounds are less than 50% of that in the associated 12-hour standard in sample W18ST-B22-2223DL. Reported concentrations of acetone, benzene, toluene, ethylbenzene, xylenes, and isopropylbenzene are flagged with "J" qualifiers. All remaining non-detected compounds are flagged with "UJ" qualifiers.

Recovery of internal standard chlorobenzene-d_5 in sample W18ST-B22-2627 is less than 50% of the recovery in the associated 12-hour standard. Recoveries of the remaining three internal standard compounds are less than 25% of those in the associated 12-hour standard. Reported concentrations of acetone, carbon disulfide, 2-butanone, benzene, toluene, ethylbenzene, xylenes, and isopropylbenzene are flagged with "J" qualifiers. Reported non-detected results for tetrachloroethene, chlorobenzene, styrene, and bromoform are flagged with "UJ" qualifiers. All remaining non-detected results are flagged with "R" qualifiers.

Recoveries of all internal standard compounds are less than 25% of that in the associated 12-hour standard in sample W18ST-B23-24. Reported concentrations of benzene, toluene, ethylbenzene, xylenes, styrene, and isopropylbenzene are flagged with "J" qualifiers. All remaining non-detected compounds are flagged with "R" qualifiers.

Recovery of internal standard compound 1,4-dichlorobenzene-d_4 is less than 50% of that in the associated 12-hour standard in sample W18ST-B51-6. The reported concentration of 1,1,2,2-tetrachloroethane is flagged with a "J" qualifier. Non-detected results for the dichlorobenzenes, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "UJ" qualifiers.

Recoveries of internal standard compounds pentafluorobenzene, 1,4-difluorobenzene, and chlorobenzene-d_5 in sample W18ST-23-17 are less than 50% of those in the associated 12-hour standard. Reported concentrations of acetone, methylcyclohexane, benzene, toluene, ethylbenzene, and xylenes are flagged with "J" qualifiers. Reported non-detected for all remaining compounds (except 1,1,2,2-tetrachloroethane, dichlorobenzenes, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene) are flagged with "UJ" qualifiers.

Recoveries of pentafluorobenzene and 1,4-dichlorobenzene-d_4 in sample W18ST-B51-22 are less than 50% of those in the associated 12-hour standard. Reported concentrations of cyclohexane, methylcyclohexane, and isopropylbenzene are flagged with "J" qualifiers. The remaining affected non-detected compounds are flagged with "R" qualifiers based on low surrogate recoveries (see Section 3.7.1).

Recoveries of all internal standard compounds are less than 25% of that in the associated 12-hour standard in sample W18ST-B51-14. Reported concentrations of cyclohexane, methylcyclohexane, benzene, toluene, ethylbenzene, xylenes, and isopropylbenzene are flagged with "J" qualifiers. All remaining non-detected compounds are flagged with "R" qualifiers.

Recoveries of all internal standard compounds are less than 25% of that in the associated 12-hour standard in sample W18ST-COMP-4-28-04. Reported concentrations of methylcyclohexane, benzene, toluene, ethylbenzene, xylenes, styrene, and isopropylbenzene are flagged with "J" qualifiers. All remaining non-detected compounds are flagged with "R" qualifiers.

Recovery of pentafluorobenzene in sample W18ST-B49-1718 is less than 25% of that in the associated 12-hour standard. Recovery of 1,4-dichlorobenzene-d_4 in sample W18ST-B49-1718 is more than 200% of that in the associated 12-hour standard. Reported concentration of methylene chloride, cyclohexane, methylcyclohexane, and isopropylbenzene are flagged with "J" qualifiers. Non-detected analytes associated with internal standard pentafluorobenzene are flagged with "R" qualifiers.

Recoveries of internal standard compounds chlorobenzene-d_5 and 1,4-dichlorobenzene-d_4 in sample W18ST-B49-1012 are more than 200% of that in the associated 12-hour standard. Reported concentrations of ethylbenzene, xylenes, and isopropylbenzene in this sample are flagged with "J" qualifiers.

Recoveries of pentafluorobenzene, 1,4-difluorobenzene, and chlorobenzene-d5 in sample W18ST-B49-1415 are less than 25% of that in the associated 12-hour standard. Recovery of internal standard chlorobenzene-d5 is more than 200% of that in the associated 12-hour standard in this sample. Reported concentrations of acetone, benzene, toluene, ethylbenzene, xylenes, styrene, and isopropylbenzene are flagged with "J" qualifiers. All remaining non-detected results are flagged with "R" qualifiers (except 1,1,2,2-tetrachloroethane, dichlorobenzenes, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene).

Recoveries of all internal standards are below method-defined limits in sample W18STMGP-B73-1719. Recovery of 1,4-dichlorobenzene-d4 is less than 25% of that in the associated 12-hour standard. Reported concentrations of benzene and toluene are flagged with "J" qualifiers. Non-detected results for isopropylbenzene, 1,1,2,2-tetrachloroethane,

dichlorobenzenes, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "R" qualifiers. All remaining non-detected results are flagged with "UJ" qualifiers.

Recovery of 1,4-dichlorobenzene-d4 is below method-defined limits in sample W18STMGP-B36-3335. Non-detected results for isopropylbenzene, 1,1,2,2-tetrachloroethane, dichlorobenzenes, 1,2-dibromo-3-chloropropane, and 1,2,4-trichlorobenzene are flagged with "UJ" qualifiers.

Recoveries of all internal standards are less than 25% of those in the associated 12-hour standard in sample W18STMGP-B73-1719RE. All results in this sample are flagged with "R" qualifiers.

Recoveries of internal standards 1,4-difluorobenzene and chlorobenzene-d5 are below method-defined limits in sample W18STMGP-DECON-4-27-04. Recovery of chlorobenzene-d5 is less than 25% of that in the associated 12-hour standard. The reported concentration of TCLP benzene is flagged with a "J" qualifier. Non-detected results for TCLP carbon tetrachloride, TCLP 1,2-dichloroethane, and TCLP trichloroethene are flagged with "UJ" qualifiers. Non-detected results for tetrachloroethene and chlorobenzene are flagged with "R" qualifiers.

Recoveries of internal standards 1,4-difluorobenzene and chlorobenzene-d5 are below method-defined limits in sample W18STMGP-DECON-5-8-04. The reported concentration of TCLP benzene is flagged with a "J" qualifier. Non-detected results for TCLP carbon tetrachloride, TCLP 1,2-dichloroethane, TCLP trichloroethene, TCLP tetrachloroethene, and TCLP chlorobenzene are flagged with "UJ" qualifiers.

Recoveries of internal standards pentafluorobenzene, 1,4-difluorobenzene, and chlorobenzene-d5 are below method-defined limits in sample W18STMGP-DECON-4-27-04RE. Recovery of chlorobenzene-d5 is less than 25% of that in the associated 12-hour standard. The reported concentration of TCLP benzene is flagged with a "J" qualifier. Non-detected results for TCLP tetrachloroethene and TCLP chlorobenzene are flagged with "R" qualifiers. All remaining non-detected results are flagged with "UJ" qualifiers.

Recoveries of internal standards 1,4-difluorobenzene and chlorobenzene-d5 are below method-defined limits in sample W18STMGP-DECON-5-8-04RE. The reported concentration of TCLP benzene is flagged with a "J" qualifier. Non-detected results for TCLP carbon tetrachloride, TCLP 1,2-dichloroethane, TCLP trichloroethene, TCLP tetrachloroethene, and TCLP chlorobenzene are flagged with "UJ" qualifiers.

3.9.2 Internal Standards – Semivolatile Organic Analytes

The recovery of internal standard perylene-d_{12} is less than method-specified limits in analysis of sample W18ST-B22-57. Reported concentrations of benzo(b)fluoranthene,

benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene in this sample are flagged with "J" qualifiers.

The recovery of internal standard naphthylene-d_8 is less than method-specified limits in analysis of sample W18ST-B22-1517. Reported concentrations of naphthalene and 2-methylnaphthalene in this sample are flagged with "J" qualifiers. Non-detected results for acetophenone, nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 4-chloroaniline, hexachlorobutadiene, caprolactam, and 4-chloro-3-methylphenol are flagged with "UJ" qualifiers.

With the exception of phenanthrene-d10, all internal standard recoveries in sample W18ST-COMP-4-28-04DL2 are less than method-defined limits. Reported concentrations of naphthalene, 2-methylnaphthalene, acenaphthene, dibenzofuran, fluorene, pyrene, benzo(a)anthracene, chrysene, and benzo(a)pyrene in this sample are flagged with "J" qualifiers. All remaining non-detected results (except those referenced to internal standard phenanthrene-d10) are flagged with "UJ" qualifiers.

Recoveries of internal standards 1,4-dichlorobenzene-d_4, naphthalene-d_8, and perylene-d_{12} are below method-defined limits in sample W18ST-B51-22DL2. Reported concentrations of naphthalene, 2-methylnaphthalene, benzo(b)fluoranthene, and benzo(a)pyrene in this sample are flagged with "J" qualifiers. Non-detected results for the remaining compounds referenced to the listed internal standards are flagged with "UJ" qualifiers.

Recoveries of internal standards 1,4-dichlorobenzene-d_4, naphthalene-d_8, chrysene-d_{12}, and perylene-d_{12} are below method-defined limits in sample W18ST-B49-1718DL2. Reported concentrations of naphthalene, 2-methylnaphthalene, pyrene, benzo(a)anthracene, chrysene, and benzo(a)pyrene in this sample are flagged with "J" qualifiers. Non-detected results for the remaining compounds referenced to the listed internal standards are flagged with "UJ" qualifiers.

Recoveries of internal standards 1,4-dichlorobenzene-d_4, naphthalene-d_8, and chrysene-d_{12}, are below method-defined limits in sample W18ST-B51-14DL2. Reported concentrations of naphthalene, 2-methylnaphthalene, pyrene, benzo(a)anthracene, and chrysene in this sample are flagged with "J" qualifiers. Non-detected results for the remaining compounds referenced to the listed internal standards are flagged with "UJ" qualifiers.

The recovery of internal standard 1,4-dichlorobenzene-d_4 is less than method-specified limits in analysis of sample W18ST-B49-1012DL2. Reported non-detected results benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3-/4-methylphenols, N-nitroso-di-n-propylamine, and hexachloroethane are flagged with "UJ" qualifiers.

The recovery of internal standard 1,4-dichlorobenzene-d_4 is less than method-specified limits in analysis of sample W18ST-COMP-4-28-04DL. Reported non-detected results benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3-/4-methylphenols, N-nitroso-di-n-propylamine, and hexachloroethane are flagged with "UJ" qualifiers.

The recovery of internal standard 1,4-dichlorobenzene-d_4 is less than method-specified limits in analysis of sample W18ST-B51-22DL. Reported non-detected results benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3-/4-methylphenols, N-nitroso-di-n-propylamine, and hexachloroethane are flagged with "UJ" qualifiers.

The recovery of internal standard 1,4-dichlorobenzene-d_4 is less than method-specified limits in analysis of sample W18ST-B49-1718DL. Reported non-detected results benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3-/4-methylphenols, N-nitroso-di-n-propylamine, and hexachloroethane are flagged with "UJ" qualifiers.

The recovery of internal standard chrysene-d_{12} is less than method-specified limits in analysis of sample W18ST-B49-1415. Reported concentrations of pyrene and bis(2-ethylhexyl) phthalate are flagged with "J" qualifiers in this sample. Reported non-detected results butylbenzyl phthalate, 3,3'-dichlorobenzidine, benzo(a)anthracene, chrysene, di-n-octyl phthalate, and indeno(1,2,3-cd)pyrene are flagged with "UJ" qualifiers.

Recoveries of all internal standards are below method-defined limits in sample W18ST-B49-1415DL. Reported concentrations of detected semivolatile organic compounds in this sample are flagged with "J" qualifiers. Non-detected results for the remaining compounds are flagged with "UJ" qualifiers.

The recovery of internal standard 1,4-dichlorobenzene-d_4 is less than method-specified limits in analysis of sample W18ST-B51-14DL. Reported non-detected results benzaldehyde, phenol, bis(2-chloroethyl)ether, 2-chlorophenol, 2-methylphenol, 2,2-oxybis(1-chloropropane), 3-/4-methylphenols, N-nitroso-di-n-propylamine, and hexachloroethane are flagged with "UJ" qualifiers.

The recovery of internal standard perylene-d_{12} is less than method-specified limits in analysis of sample W18STMGP-B36-57. Reported concentrations of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene in this sample are flagged with "J" qualifiers and non-detected results are flagged with "UJ" qualifiers.

3.10 Laboratory Control Samples

3.10.1 Laboratory Control Samples – Volatile Organic Analytes

All criteria are met.

3.10.2 Laboratory Control Samples – Semivolatile Organic Analytes

All criteria were met.

3.10.3 Laboratory Control Samples – Polychlorinated Biphenyls, Herbicides, and Pesticides

All criteria were met.

3.10.4 Laboratory Control Samples – Metals

All criteria were met.

3.10.5 Laboratory Control Samples – Cyanide and Other General Chemistry Analyses

All criteria were met.

3.11 Sample Quantitation and Reported Quantitation Limits

3.11.1 Quantitation Limits – Volatile Organic Analytes

Sample calculations were spot-checked; there were no errors noted.

Select target analytes results were reported below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Some samples were analyzed using dilutions. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

Some samples were analyzed using diluted sample amounts. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

3.11.2 Quantitation Limits – Semivolatile Organic Analytes

Sample calculations were spot-checked; there were no errors noted.

Select target analytes results were reported below the lowest calibration standard level and quantitation limit. These results were qualified as estimated (J) by the laboratory.

Some samples were analyzed using diluted extracts. Generally, some target analytes are reported at concentrations within the calibration range in these samples; however, most target analytes are reported as not detected and are associated with elevated reporting limits.

3.11.3 Quantitation Limits – Polychlorinated Biphenyls, Herbicides, and Pesticides

Samples did not require dilutions. All criteria were met.

3.9.5 Quantitation Limits – Cyanide and Other General Chemistry Analyses

Samples did not require dilutions. All criteria were met.

3.12 Target Compound Identification

3.12.1 Target Compound Identification – Volatile Organic Analytes

All criteria are met.

3.12.2 Target Compound Identification – Semivolatile Organic Analytes

All criteria are met.

3.12.3 Target Compound Identification – Polychlorinated Biphenyls, Herbicides, and Pesticides

All criteria are met.

3.13 Duplicate Results

3.13.1 Duplicate Results – Metals

Relative percent difference (RPD) values for mercury and zinc are greater than 20% in duplicate analyses of sample W18ST-B24-2527.

3.13.2 Duplicate Results – Cyanide and Other General Chemistry Analyses

All criteria were met for laboratory duplicate analyses.

3.14 Serial Dilutions

3.14.1 Serial Dilutions – Metals

Percent difference values for chromium, nickel and zinc in the serial dilution performed using sample W18ST-B24-2527 are greater than 10%. Reported concentrations of chromium, nickel, and zinc in samples W18ST-B24-57, W18ST-B24-79, W18ST-B24-3335, W18ST-B64-3335, W18ST-B24-5355, W18ST-B25-79, W18ST-B25-2022, W18ST-B25-3233, W18ST-B25-3334, W18ST-B50-23, W18ST-B33-45, W18ST-B32-45, W18ST-B38-34, W18ST-B38-45, W18ST-B36-34, W18ST-COMP-4-24-04, W18ST-COMP-4-27-04, W18ST-B22-57, and W18ST-B24-2527 are flagged with “J” qualifiers.

Percent difference values for mercury and zinc in the serial dilution performed using sample W18ST-B49-1415 are greater than 10%. Reported concentrations of mercury and zinc in samples W18ST-B22-1113, W18ST-B22-1517, W18ST-B22-2223, W18ST-B22-2627, W18ST-B23-9, W18ST-B23-15, W18ST-B23-17, W18ST-B23-24, W18ST-B51-6, W18ST-B51-14, W18ST-B51-22, W18ST-B51-33, W18ST-B50-810, W18ST-B50-2123, W18ST-B50-2627, W18ST-B49-1012, W18ST-B49-1415, W18ST-B49-1718, W18ST-B49-2324, and W18ST-COMP-4-28-04 are flagged with "J" qualifiers.

Percent difference values for antimony, chromium, copper, lead, and zinc in the serial dilution performed using sample W18STMGP-TP4-56 are greater than 10%. Reported concentrations of these analytes in samples WW18STMGP-B36-57, W18STMGP-B36-1719, W18STMGP-B36-2527, W18STMGP-B36-3335, W18STMGP-B73-1719, W18STMGP-TP4-56, W18STMGP-B34-3, and W18STMGP-B34-5 are flagged with "J" qualifiers.

The percent difference value for TCLP lead in the serial dilution performed using sample W18STMGP-COMP-5-16-04 is greater than 10%. The reported concentration of TCLP lead in sample WW18STMGP-COMP-5-16-04 is flagged with a "J" qualifier.

DATA ASSESSMENT NARRATIVE TABLES

Table 1: Samples Reviewed and Associated Analytical Methods

Matrix	Sample ID	Collection Date	Collection Time	Methods						Lab Sample ID
Soil	W18ST-B24-57	4/24/2004	1330	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-01
Soil	W18ST-B24-79	4/24/2004	1335	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-02
Soil	W18ST-B24-2527	4/24/2004	1440	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-03
Soil	W18ST-B24-3335	4/24/2004	1445	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-06
Soil	W18ST-B64-3335	4/24/2004	1600	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-07
Soil	W18ST-B24-5355	4/24/2004	1415	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-08
Soil	W18ST-B25-79	4/26/2004	1047	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-09
Soil	W18ST-B25-2022	4/26/2004	1120	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-10
Soil	W18ST-B25-3233	4/26/2004	1245	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-11
Soil	W18ST-B25-3334	4/26/2004	1250	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-12
Soil	W18ST-B50-23	4/25/2004	1020	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-13
Soil	W18ST-B33-45	4/25/2004	1045	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-14
Soil	W18ST-B32-45	4/25/2004	1230	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-15
Soil	W18ST-B38-34	4/25/2004	1325	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-16
Soil	W18ST-B38-45	4/25/2004	1335	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-17
Soil	W18ST-B36-34	4/25/2004	1620	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-18
Soil	W18ST-COMP-4-24-04	4/28/2004	0930	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-19
Soil	W18ST-COMP-4-27-04	4/28/2004	0945	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-20
Soil	W18ST-RB-01	4/27/2004	1453	SW8260	SW8270	--	SW9012	SW6010	SW7470	S2370-21
Soil	W18ST-B22-57	4/27/2004	1550	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2370-22
Soil	W18ST-B22-1113	4/27/2004	1525	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-01
Soil	W18ST-B22-1517	4/27/2004	1620	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-02
Soil	W18ST-B22-2223	4/27/2004	1625	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-03
Soil	W18ST-B22-2627	4/27/2004	1630	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-04
Soil	W18ST-B23-9	4/27/2004	1502	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-05
Soil	W18ST-B23-15	4/27/2004	1525	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-06
Soil	W18ST-B23-17	4/27/2004	1530	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-07

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods						Lab Sample ID
Soil	W18ST-B23-24	4/27/2004	1547	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-08
Soil	W18ST-B51-6	4/27/2004	0927	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-09
Soil	W18ST-B51-14	4/27/2004	0947	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-10
Soil	W18ST-B51-22	4/27/2004	1208	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-11
Soil	W18ST-B51-33	4/27/2004	1252	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-12
Soil	W18ST-B50-810	4/27/2004	0930	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-13
Soil	W18ST-B50-2123	4/27/2004	1015	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-14
Soil	W18ST-B50-2627	4/27/2004	1020	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-15
Soil	W18ST-B49-1012	4/28/2004	1400	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-16
Soil	W18ST-B49-1415	4/28/2004	1405	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-17
Soil	W18ST-B49-1718	4/28/2004	1411	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-20
Soil	W18ST-B49-2324	4/28/2004	1420	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-21
Soil	W18ST-COMP-4-28-04	4/28/2004	1446	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2371-22
Soil	W18STMGP-B36-57	5/8/2004	1020	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-01
Soil	W18STMGP-B36-1719	5/8/2004	1035	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-02
Soil	W18STMGP-B36-2527	5/8/2004	1150	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-03
Soil	W18STMGP-B36-3335	5/8/2004	1200	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-04
Soil	W18STMGP-B73-1719	5/8/2004	1035	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-05
Soil	W18STMGP-TP4-56	5/8/2004	1215	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-06
Soil	W18STMGP-COMP-5-8-04	5/8/2004	1400	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2516-09
Soil	W18STMGP-B34-3	5/10/2004	1200	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-10
Soil	W18STMGP-B34-5	5/10/2004	1215	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2516-11
Soil	W18ST-COMP-4-24-04	4/28/2004	0930	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-01
Soil	W18ST-COMP-4-27-04	4/28/2004	0945	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-02
Soil	W18ST-COMP-4-28-04	4/28/2004	1446	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-03
Soil	W18STMGP-COMP-5-1-04	5/1/2004	1510	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-04

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods						Lab Sample ID
Soil	W18STMGP-COMP-5-2-04	5/2/2004	1545	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-05
Soil	W18STMGP-COMP-5-3-04	5/3/2004	1415	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-06
Soil	W18STMGP-COMP-5-4-04	5/4/2004	1115	SW8260[a]	SW8270[a]	SW8082	See Note	SW6010[a]	SW7471[a]	S2531-07
Soil	W18STMGP-B38-1315	5/16/2004	1030	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-01
Soil	W18STMGP-B38-2123	5/16/2004	1037	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-02
Soil	W18STMGP-B33-1113	5/16/2004	1200	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-03
Soil	W18STMGP-B33-1315	5/16/2004	1210	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-04
Soil	W18STMGP-B33-3537	5/16/2004	1508	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-05
Soil	W18STMGP-B33-3941	5/16/2004	1530	SW8260	SW8270	--	SW9012	SW6010	SW7471	S2601-06
Soil	W18STMGP-COMP-5-16-04	5/16/2004	1614	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2601-07
Soil	W18STMGP-B19-57	5/2/2004	0850	SW8151	SW8081	SW8082	--	--	--	S2676-01
Soil	W18STMGP-B19-1719	5/2/2004	0920	SW8151	SW8081	SW8082	--	--	--	S2676-02
Soil	W18STMGP-B20-911	5/2/2004	1122	SW8151	SW8081	SW8082	--	--	--	S2676-03
Soil	W18STMGP-B20-1315	5/2/2004	1343	SW8151	SW8081	SW8082	--	--	--	S2676-04
Soil	W18STMGP-B20-1920	5/2/2004	1345	SW8151	SW8081	SW8082	--	--	--	S2676-05
Soil	W18STMGP-B20-4143	5/2/2004	1415	SW8151	SW8081	SW8082	--	--	--	S2676-06
Soil	W18STMGP-B20-4951	5/2/2004	1430	SW8151	SW8081	SW8082	--	--	--	S2676-07
Soil	W18STMGP-DECON-4-26-04	5/21/2004	1230	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-01
Soil	W18STMGP-DECON-4-27-04	5/21/2004	1245	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-02
Soil	W18STMGP-DECON-4-28-04	5/21/2004	1259	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-03
Soil	W18STMGP-DECON-5-8-04	5/21/2004	1330	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-04
Soil	W18STMGP-DECON-5-16-04A	5/21/2004	1345	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-05
Soil	W18STMGP-DECON-5-16-04B	5/21/2004	1356	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2683-06
Soil	W18STMGP-42804A	6/8/2004	1030	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2988-01

Table 1: Samples Reviewed and Associated Analytical Methods (continued)

Matrix	Sample ID	Collection Date	Collection Time	Methods						Lab Sample ID
Soil	W18STMGP-42804B	6/8/2004	1045	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2988-02
Soil	W18STMGP-DECON-52204	6/8/2004	1115	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2988-03
Soil	W18STMGP-52204	6/8/2004	1125	SW8260[a]	SW8270[a]	--	See Note	SW6010[a]	SW7471[a]	S2988-04

SW *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, (U.S. Environmental Protection Agency)
8081 Method 8081A – Organochlorine Pesticides by Gas Chromatography
8082 Method 8082 – Polychlorinated Biphenyls (PCBs) by Gas Chromatography
8151 Method 8151A – Chlorinated Herbicides by GC using Methylation or Pentafluorobenzylation Derivatization
8260 Method 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
8270 Method 8270C – Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
9012 Method 9012A – Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)
6010 Method 6010B – Inductively Coupled Plasma-Atomic Emission Spectrometry
7471 Method 7471A – Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)
-- No data

[a] Toxicity characteristic leaching procedure (TCLP) data are reported for this method.

NOTE: Data are reported for corrosivity by Method 9045, ignitability by the method given in Chapter 7 of SW846, reactive sulfide by the method given in Section 7.3.3.2 of Chapter 7 of SW846, and reactive sulfide by the method given in Section 7.3.4.2 of Chapter 7 of SW846.

Table 2: Qualified Analytical Data

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B19-1719	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.
W18STMGP-B19-1719	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B19-1719	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B19-1719	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B19-1719	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B19-1719	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B19-57	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.
W18STMGP-B19-57	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B19-57	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B19-57	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B19-57	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B19-57	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-911	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.
W18STMGP-B20-911	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B20-911	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B20-911	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B20-911	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-911	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-1315	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B20-1315	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B20-1315	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B20-1315	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B20-1315	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-1315	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-1920	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.
W18STMGP-B20-1920	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B20-1920	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B20-1920	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B20-1920	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-1920	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-4143	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.
W18STMGP-B20-4143	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B20-4143	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B20-4143	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B20-4143	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-4143	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-4951	SW8151	All non-detected herbicides results.	UJ	Extracted 9 days past holding time expiration. Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B20-4951	SW8081	All non-detected pesticides results.	UJ	Extracted 9 days past holding time expiration.
W18STMGP-B20-4951	SW8081	Endrin aldehyde	UJ	Low MS/MSD recoveries.
W18STMGP-B20-4951	SW8081	Endosulfan sulfate	UJ	Low MS/MSD recoveries.
W18STMGP-B20-4951	SW8081	4,4'-DDT	UJ	%D > 20 in ending calibration verification analysis.
W18STMGP-B20-4951	SW8081	Methoxychlor	UJ	%D > 20 in ending calibration verification analysis.
W18ST-B22-1113	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%.
W18ST-B22-1113	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B22-1113	SW6010	Chromium	J	High CRDL recovery.
W18ST-B22-1113	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B22-1113	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B22-1113	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B22-1113	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B22-1113	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B22-1113	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B22-1113	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B22-1517	SW8260	Methylcyclohexane	J	Initial calibration %RSD >15%.
W18ST-B22-1517	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B22-1517	SW6010	Chromium	J	High CRDL recovery.
W18ST-B22-1517	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B22-1517	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B22-1517	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B22-1517	SW8270	Acetophenone	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	Nitrobenzene	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	Isophorone	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B22-1517	SW8270	2-Nitrophenol	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	Naphthalene	J	Low internal standard recovery. Continuing calibration %D >20%.
W18ST-B22-1517	SW8270	4-Chloroaniline	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	Caprolactam	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18ST-B22-1517	SW8270	2-Methylnaphthalene	J	Low internal standard recovery. Continuing calibration %D >20%.
W18ST-B22-1517	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B22-1517	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B22-1517	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B22-1517DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B22-1517DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B22-2223	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%.
W18ST-B22-2223	SW8260	Methylcyclohexane	J	Initial calibration %RSD >15%.
W18ST-B22-2223	SW8260	Carbon tetrachloride	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Benzene	J	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2-Dichloroethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Trichloroethene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2-Dichloropropane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Bromodichloromethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	4-Methyl-2-pentanone	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Toluene	J	Low internal standard recovery.
W18ST-B22-2223	SW8260	trans-1,3-Dichloropropene	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B22-2223	SW8260	cis-1,3-Dichloropropene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,1,2-Trichloroethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	2-Hexanone	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Dibromochloromethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2-Dibromoethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Tetrachloroethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Chlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Ethylbenzene	J	Low internal standard recovery.
W18ST-B22-2223	SW8260	m-/p-Xylenes	J	Low internal standard recovery. Initial calibraton %RSD >15%.
W18ST-B22-2223	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B22-2223	SW8260	Styrene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Bromoform	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	Isopropylbenzene	J	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,1,2,2-Tetrachloroethane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,3-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,4-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2-Dibromo-3-chloropropane	UJ	Low internal standard recovery.
W18ST-B22-2223	SW8260	1,2,4-Trichlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2223	SW6010	Chromium	J	High CRDL recovery.
W18ST-B22-2223	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B22-2223	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B22-2223	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B22-2223	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B22-2223	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B22-2223	SW8270	Fluorene	J	Continuing calibration %D >20%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B22-2223	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B22-2223	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B22-2223DL	SW8260	Acetone	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	Benzene	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	Toluene	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	Ethylbenzene	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	m-/p-Xylenes	J	Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B22-2223DL	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	Isopropylbenzene	J	Low internal standard recovery.
W18ST-B22-2223DL	SW8260	All non-detected volatile compounds.	UJ	Low internal standard recovery.
W18ST-B22-2627	SW8260	Acetone	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW8260	Carbon disulfide	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B22-2627	SW8260	2-Butanone	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW8260	Benzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW8260	Toluene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW8260	Tetrachloroethane	UJ	Low internal standard recovery.
W18ST-B22-2627	SW8260	Chlorobenzene	UJ	Low internal standard recovery.
W18ST-B22-2627	SW8260	Ethylbenzene	J	Low internal standard recovery.
W18ST-B22-2627	SW8260	m-/p-Xylenes	J	Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B22-2627	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B22-2627	SW8260	Styrene	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B22-2627	SW8260	Bromoform	UJ	Low internal standard recovery.
W18ST-B22-2627	SW8260	Isopropylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW8260	All non-detected volatile compounds (except those flagged "UJ")	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B22-2627	SW6010	Chromium	J	High CRDL recovery.
W18ST-B22-2627	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B22-2627	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B22-2627	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B22-57	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B22-57	SW7471	Mercury	J	High CRDL recovery.
W18ST-B22-57	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B22-57	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B22-57	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B22-57	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B22-57	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B22-57	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B22-57	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B22-57	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B22-57	SW8270	Benzo(b)fluoranthene	J	Low internal standard recovery.
W18ST-B22-57	SW8270	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18ST-B22-57	SW8270	Benzo(a)pyrene	J	Low internal standard recovery.
W18ST-B22-57	SW8270	Dibenz(a,h)anthracene	J	Low internal standard recovery.
W18ST-B22-57	SW8270	Benzo(g,h,i)perylene	J	Low internal standard recovery.
W18ST-B22-57DL	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B22-57DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-B22-57DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B22-57DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B23-9	SW8260	Methylcyclohexane	J	Initial calibraton %RSD >15%. Continuing calibration %D >20%.
W18ST-B23-9	SW8260	m-/p-Xylenes	J	Initial calibraton %RSD >15%.
W18ST-B23-9	SW6010	Chromium	J	High CRDL recovery.
W18ST-B23-9	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B23-9	SW6010	Selenium	J	Low CRDL recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B23-9	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B23-9	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B23-9	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B23-9	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-9	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B23-9	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-9DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-9DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-15	SW8260	Acetone	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B23-15	SW6010	Chromium	J	High CRDL recovery.
W18ST-B23-15	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B23-15	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B23-15	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B23-15	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B23-15	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B23-15	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-15	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B23-15	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-15DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-15DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-17	SW8260	Dichlorodifluoromethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Chloromethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Vinyl chloride	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Bromomethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Chloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Trichlorofluoromethane	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B23-17	SW8260	1,1,2-Trichlorotrifluoroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,1-Dichloroethene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Acetone	J	Low internal standard recovery.
W18ST-B23-17	SW8260	Carbon disulfide	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Methyl tert-butyl ether	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Methyl acetate	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Methylene chloride	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	tran-1,2-Dichloroethene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,1-Dichloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Cyclohexane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	2-Butanone	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Carbon tetrachloride	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	cis-1,2-Dichloroethene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Chloroform	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,1,1-Trichloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Methylcyclohexane	J	Low internal standard recovery.
W18ST-B23-17	SW8260	Benzene	J	Low internal standard recovery.
W18ST-B23-17	SW8260	1,2-Dichloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Trichloroethene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,2-Dichloropropane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Bromodichloromethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	4-Methyl-2-pentanone	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Toluene	J	Low internal standard recovery.
W18ST-B23-17	SW8260	trans-1,3-Dichloropropene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	cis-1,3-Dichloropropene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,1,2-Trichloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	2-Hexanone	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B23-17	SW8260	Dibromochloromethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	1,2-Dibromoethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Tetrachloroethane	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Chlorobenzene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Ethylbenzene	J	Low internal standard recovery.
W18ST-B23-17	SW8260	m-/p-Xylenes	J	Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B23-17	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B23-17	SW8260	Styrene	UJ	Low internal standard recovery.
W18ST-B23-17	SW8260	Bromoform	UJ	Low internal standard recovery.
W18ST-B23-17	SW6010	Chromium	J	High CRDL recovery.
W18ST-B23-17	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B23-17	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B23-17	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B23-17	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B23-17	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B23-17	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-17	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B23-17	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-17DL	SW8260	Methylene chloride	J	Continuing calibration %D >20%.
W18ST-B23-17DL	SW8260	Methylcyclohexane	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B23-17DL	SW8260	m-/p-Xylenes		Initial calibration %RSD >15%.
W18ST-B23-24	SW8260	Benzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW8260	Toluene	J	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B23-24	SW8260	Ethylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW8260	m-/p-Xylenes	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B23-24	SW8260	o-Xylenes	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW8260	Styrene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW8260	Isopropylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW8260	All non-detected volatile compounds	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B23-24	SW6010	Chromium	J	High CRDL recovery.
W18ST-B23-24	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B23-24	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B23-24	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B23-24	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B23-24	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B23-24	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B23-24	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B23-24	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B23-24DL	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B23-24DL	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B24-2527	SW8260	Benzene	J	Low internal standard recovery.
W18ST-B24-2527	SW8260	Toluene	J	High MS/MSD recoveries. Low internal standard recovery.
W18ST-B24-2527	SW8260	Chlorobenzene	J	Low internal standard recovery.
W18ST-B24-2527	SW8260	Ethylbenzene	J	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B24-2527	SW8260	m-/p-Xylenes	J	Low internal standard recovery.
W18ST-B24-2527	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B24-2527	SW8260	Isopropylbenzene	J	Low internal standard recovery.
W18ST-B24-2527	SW8260	All non-detected volatile compounds.	UJ	Low internal standard recovery.
W18ST-B24-2527	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B24-2527	SW7471	Mercury	J	High CRDL recovery.
W18ST-B24-2527	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B24-2527	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B24-2527	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B24-2527	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24-2527	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B24-2527DL	SW8260	Toluene	J	High MS/MSD recoveries. Initial calibration %RSD >15%.
W18ST-B24-2527DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-B24-2527DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24-2527DL	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B24-3335	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B24-3335	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B24-3335	SW7471	Mercury	J	High CRDL recovery.
W18ST-B24-3335	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B24-3335	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B24-3335	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B24-3335	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Di-n-butylphthalate	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B24-3335	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B24-3335	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24-3335	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B24-3335DL	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B24-5355	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B24-5355	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B24-5355	SW7471	Mercury	J	High CRDL recovery.
W18ST-B24-5355	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B24-5355	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B24-5355	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B24-5355	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B24-5355	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B24-5355	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B24-5355	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24-5355	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B24-57	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B24-57	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B24-57	SW7471	Mercury	J	High CRDL recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B24-57	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B24-57	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B24-57	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B24-57	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24-57	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B24 79	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B24 79	SW7471	Mercury	J	High CRDL recovery.
W18ST-B24 79	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B24 79	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B24 79	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B24 79	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B24 79	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B25-2022	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B25-2022	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B25-2022	SW7471	Mercury	J	High CRDL recovery.
W18ST-B25-2022	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B25-2022	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B25-2022	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B25-2022	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-2022	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B25-2022DL	SW8270	Dibenz(a,h)anthracene	J	Continuing calibration %D >20%.
W18ST-B25-2022DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-B25-2022DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-2022DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B25-2022DL2	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-2022DL2	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B25-3233	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B25-3233	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B25-3233	SW7471	Mercury	J	High CRDL recovery.
W18ST-B25-3233	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B25-3233	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B25-3233	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B25-3233	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-3233	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B25-3233DL	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B25-3233DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-3233DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B25-3334	SW8260	Acetone	J	Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B25-3334	SW8260	Methylcyclohexane	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	Benzene	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	Toluene	J	High MS/MSD recoveries. Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B25-3334	SW8260	Ethylbenzene	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	m-/p-Xylenes	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	o-Xylene	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	Isopropylbenzene	J	Low internal standard recovery.
W18ST-B25-3334	SW8260	All non-detected volatile compounds.	UJ	Low internal standard recovery.
W18ST-B25-3334	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B25-3334	SW7471	Mercury	J	High CRDL recovery.
W18ST-B25-3334	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B25-3334	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B25-3334	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B25-3334	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B25-3334	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-3334	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B25-3334DL	SW8260	Toluene	J	High MS/MSD recoveries. Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B25-3334DL	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B25-3334DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-3334DL	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B25-3334DL2	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B25-79	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B25-79	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B25-79	SW7471	Mercury	J	High CRDL recovery.
W18ST-B25-79	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B25-79	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B25-79	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B25-79	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B25-79	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B32-45	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B32-45	SW7471	Mercury	J	High CRDL recovery.
W18ST-B32-45	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B32-45	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B32-45	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B32-45	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B32-45	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B32-45	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B32-45	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B32-45	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B32-45	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B32-45	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B33-1113	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B33-1113	SW7471	Mercury	J	Low CRDL recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B33-1315	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B33-1315	SW7471	Mercury	J	Low CRDL recovery.
W18STMGP-B33-3537	SW8260	Acetone	J	Initial calibration %RSD >15%.
W18STMGP-B33-3537	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B33-3537	SW7471	Mercury	J	Low CRDL recovery.
W18STMGP-B33-3537DL	SW8260	Acetone	J	Initial calibration %RSD >15%.
W18STMGP-B33-3941	SW8260	Acetone	J	Initial calibration %RSD >15%.
W18STMGP-B33-3941	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B33-3941	SW7471	Mercury	J	Low CRDL recovery.
W18ST-B33-45	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B33-45	SW8260	Isopropylbenzene	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,1,2,2-Tetrachloroethane	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,3-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,4-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,2-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,2-Dibromo-3-chloropropane	UJ	Low internal standard recovery.
W18ST-B33-45	SW8260	1,2,4-Trichlorobenzene	UJ	Low internal standard recovery.
W18ST-B33-45	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B33-45	SW7471	Mercury	J	High CRDL recovery.
W18ST-B33-45	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B33-45	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B33-45	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B33-45	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B33-45	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B33-45	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B33-45	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B33-45DL	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B33-45DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-B33-45DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B33-45DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B34-3	SW8260	Acetone	J	Initial calibration %RSD >15%.
W18STMGP-B34-3	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B34-3	SW6010	Antimony	UJ	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B34-3	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B34-3	SW6010	Silver	UJ	Low MS/MSD recoveries.
W18STMGP-B34-3	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B34-3	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B34-3	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B34-3	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B34-3	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B34-3	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B34-3	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B34-3	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B34-3	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-B34-5	SW8260	Isopropylbenzene	R	Continuing calibration %D >90%.
W18STMGP-B34-5	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B34-5	SW6010	Antimony	J	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B34-5	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B34-5	SW6010	Silver	UJ	Low MS/MSD recoveries.
W18STMGP-B34-5	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B34-5	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B34-5	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B34-5	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B34-5	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B34-5	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B34-5	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B34-5	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B34-5	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW8260	Isopropylbenzene	R	Continuing calibration %D >90%.
W18STMGP-B36-1719	SW6010	Thallium	UJ	Low CRDL recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B36-1719	SW6010	Antimony	UJ	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B36-1719	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B36-1719	SW6010	Silver	UJ	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B36-1719	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B36-1719	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B36-1719	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B36-1719	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B36-1719	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B36-2527	SW6010	Antimony	J	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B36-2527	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B36-2527	SW6010	Silver	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B36-2527	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B36-2527	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B36-2527	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B36-2527	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B36-2527	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B36-2527DL	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B36-2527DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B36-2527DL	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-2527DL2	SW8270	Benzo(g,h,i)perylene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW8260	Isopropylbenzene	R	Low internal standard recovery. Continuing calibration %D >90%.
W18STMGP-B36-3335	SW8260	1,1,2,2-Tetrachloroethane	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW8260	1,3-Dichlorobenzene	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW8260	1,2-Dichlorobenzene	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW8260	1,4-Dichlorobenzene	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW8260	1,2-Dibromo-3-chloropropane	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW8260	1,2,4-Trichlorobenzene	UJ	Low internal standard recovery.
W18STMGP-B36-3335	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B36-3335	SW6010	Antimony	UJ	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B36-3335	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B36-3335	SW6010	Silver	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B36-3335	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B36-3335	SW6010	Zinc	J	Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B36-3335	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B36-3335	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335	SW8270	Benzo(g,h,i)perylene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-3335DL	SW8260	Isopropylbenzene	R	Continuing calibration %D >90%.
W18ST-B36-34	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B36-34	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B36-34	SW7471	Mercury	J	High CRDL recovery.
W18ST-B36-34	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B36-34	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B36-34	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B36-34	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B36-34	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B36-34DL	SW8270	Dibenz(a,h)anthracene	J	Continuing calibration %D >20%.
W18ST-B36-34DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-B36-34DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B36-34DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-B36-57	SW8260	Carbon disulfide	J	Continuing calibration %D >20%.
W18STMGP-B36-57	SW8260	Isopropylbenzene	R	Continuing calibration %D >90%.
W18STMGP-B36-57	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B36-57	SW6010	Antimony	J	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B36-57	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B36-57	SW6010	Silver	UJ	Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B36-57	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B36-57	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B36-57	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B36-57	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries. Low internal standard recovery.
W18STMGP-B36-57	SW8270	Benzo(k)fluoranthene	J	Low internal standard recovery.
W18STMGP-B36-57	SW8270	Benzo(a)pyrene	J	Low internal standard recovery.
W18STMGP-B36-57	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57	SW8270	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18STMGP-B36-57	SW8270	Benzo(g,h,i)perylene	UJ	Low MS/MSD recoveries. Low internal standard recovery.
W18STMGP-B36-57DL	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57DL	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57DL	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57DL	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-B36-57DL	SW8270	Benzo(g,h,i)perylene	UJ	Low MS/MSD recoveries.
W18STMGP-B38-1315	SW8260	Acetone	J	Initial calibration %RSD >15%.
W18STMGP-B38-1315	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B38-1315	SW7471	Mercury	J	Low CRDL recovery.
W18STMGP-B38-2123	SW6010	Lead	J	High CRDL recovery.
W18STMGP-B38-2123	SW7471	Mercury	J	Low CRDL recovery.
W18ST-B38-34	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B38-34	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B38-34	SW7471	Mercury	J	High CRDL recovery.
W18ST-B38-34	SW6010	Nickel	J	Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B38-34	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B38-34	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B38-34	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B38-34	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B38-34DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B38-34DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B38-45	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B38-45	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B38-45	SW7471	Mercury	J	High CRDL recovery.
W18ST-B38-45	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B38-45	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B38-45	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B38-45	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	2-Methylnaphthalene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	1,1-Biphenyl	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Acenaphthylene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Acenaphthene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Dibenzofuran	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Anthracene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B38-45	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B38-45	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B49-1012	SW8260	Methylcyclohexane		Initial calibration %RSD >15%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1012	SW8260	Ethylbenzene	J	High internal standard recovery.
W18ST-B49-1012	SW8260	m-/p-Xylenes	J	High internal standard recovery. Initial calibration %RSD >15%.
W18ST-B49-1012	SW8260	o-Xylene	J	High internal standard recovery.
W18ST-B49-1012	SW8260	Isopropylbenzene	J	High internal standard recovery.
W18ST-B49-1012	SW6010	Chromium	J	High CRDL recovery.
W18ST-B49-1012	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B49-1012	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B49-1012	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B49-1012	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1012	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B49-1012	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B49-1012DL	SW8260	Toluene	J	Initial calibration %RSD >15%.
W18ST-B49-1012DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1012DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B49-1012DL2	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B49-1012DL2	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1415	SW8260	Dichlorodifluoromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1415	SW8260	Chloromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Vinyl chloride	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Bromomethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Chloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Trichlorofluoromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,1,2-Trichlorotrifluoroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,1-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Acetone	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Carbon disulfide	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Methyl tert-butyl ether	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Methyl acetate	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Methylene chloride	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	tran-1,2-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,1-Dichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Cyclohexane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	2-Butanone	R	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1415	SW8260	Carbon tetrachloride	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	cis-1,2-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Chloroform	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,1,1-Trichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Methylcyclohexane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Benzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,2-Dichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Trichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,2-Dichloropropane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Bromodichloromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	4-Methyl-2-pentanone	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Toluene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	trans-1,3-Dichloropropene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	cis-1,3-Dichloropropene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,1,2-Trichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	2-Hexanone	R	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1415	SW8260	Dibromochloromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	1,2-Dibromoethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Tetrachloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Chlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Ethylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	m-/p-Xylenes	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B49-1415	SW8260	o-Xylene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Styrene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Bromoform	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1415	SW8260	Isopropylbenzene	J	High internal standard recovery.
W18ST-B49-1415	SW6010	Chromium	J	High CRDL recovery.
W18ST-B49-1415	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B49-1415	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B49-1415	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B49-1415	SW8270	Pyrene	J	Low internal standard recovery.
W18ST-B49-1415	SW8270	Butylbenzyl phthalate	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	3,3'-Dichlorobenzidine	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	Benzo(a)anthracene	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	Chrysene	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	bis(2-Ethylhexyl)phthalate	J	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1415	SW8270	Di-n-octyl phthalate	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low internal standard recovery.
W18ST-B49-1415	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1415DL	SW8260	Toluene	J	Initial calibration %RSD >15%.
W18ST-B49-1415DL	SW8270	Naphthalene	J	Low internal standard recovery.
W18ST-B49-1415DL	SW8270	2-Methylnaphthalene	J	Low internal standard recovery.
W18ST-B49-1415DL	SW8270	All non-detected semivolatile organic analytes	UJ	Low internal standard recovery.
W18ST-B49-1718	SW8260	Dichlorodifluoromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Chloromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Vinyl chloride	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Bromomethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Chloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Trichlorofluoromethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	1,1,2-Trichlorotrifluoroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	1,1-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Acetone	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Carbon disulfide	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Methyl tert-butyl ether	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Methyl acetate	R	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1718	SW8260	Methylene chloride	J	Internal standard recovery <25% of that in the associated 12-hour standard. Continuing calibration %D >20%.
W18ST-B49-1718	SW8260	tran-1,2-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	1,1-Dichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Cyclohexane	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	2-Butanone	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	cis-1,2-Dichloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Chloroform	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	1,1,1-Trichloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B49-1718	SW8260	Methylcyclohexane	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%. Continuing calibration %D <20%.
W18ST-B49-1718	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B49-1718	SW8260	Isopropylbenzene	J	High internal standard recovery.
W18ST-B49-1718	SW6010	Chromium	J	High CRDL recovery.
W18ST-B49-1718	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B49-1718	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B49-1718	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B49-1718	SW8270	3-/4-Methylphenols	J	Continuing calibration %D >20%.
W18ST-B49-1718	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B49-1718	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1718	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1718	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B49-1718	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B49-1718DL	SW8260	Toluene	J	Continuing calibration %D >20%.
W18ST-B49-1718DL	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B49-1718DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-1718DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B49-1718DL2	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Acetophenone	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Nitrobenzene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Isophorone	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-1718DL2	SW8270	2-Nitrophenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Naphthalene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	4-Chloroaniline	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Caprolactam	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	2-Methylnaphthalene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Pyrene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Butylbenzylphthalate	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	3,3'-Dichlorobenzidine	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Benzo(a)anthracene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Chrysene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	bis(2-Ethylhexyl)phthalate	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Di-n-octyl phthalate	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Benzo(b)fluoranthene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Benzo(k)fluoranthene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Benzo(a)pyrene	J	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.
W18ST-B49-1718DL2	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-2324	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B49-2324	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B49-2324	SW6010	Chromium	J	High CRDL recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B49-2324	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B49-2324	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B49-2324	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B49-2324	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B49-2324	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B49-2324	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B49-2324	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B49-2324	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B49-2324DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B50-810	SW8260	Acetone	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B50-810	SW8260	Carbon disulfide	J	Continuing calibration %D >20%.
W18ST-B50-810	SW6010	Chromium	J	High CRDL recovery.
W18ST-B50-810	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B50-810	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B50-810	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B50-2123	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B50-2123	SW6010	Chromium	J	High CRDL recovery.
W18ST-B50-2123	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B50-2123	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B50-2123	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B50-2123	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B50-2123	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B50-2123	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B50-2123	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B50-2123	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B50-2123DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B50-2123DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B50-23	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B50-23	SW7471	Mercury	J	High CRDL recovery.
W18ST-B50-23	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B50-23	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-B50-23	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B50-23	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B50-23	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B50-23	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-B50-2627	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B50-2627	SW8260	Cyclohexane	J	Initial calibration %RSD >15%.
W18ST-B50-2627	SW8260	Methylcyclohexane	J	Initial calibration %RSD >15%. Continuing calibration %D >20%.
W18ST-B50-2627	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B50-2627	SW6010	Chromium	J	High CRDL recovery.
W18ST-B50-2627	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B50-2627	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B50-2627	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B51-6	SW8260	Carbon disulfide	J	Initial calibration %RSD >15%.
W18ST-B51-6	SW8260	Cyclohexane	J	Initial calibration %RSD >15%.
W18ST-B51-6	SW8260	Methylcyclohexane	J	Initial calibration %RSD >15%.
W18ST-B51-6	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B51-6	SW8260	Isopropylbenzene	J	Low internal standard recovery.
W18ST-B51-6	SW8260	1,1,2,2-Tetrachloroethane	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-6	SW8260	1,3-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B51-6	SW8260	1,2-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B51-6	SW8260	1,4-Dichlorobenzene	UJ	Low internal standard recovery.
W18ST-B51-6	SW8260	1,2-Dibromo-3-chloropropane	UJ	Low internal standard recovery.
W18ST-B51-6	SW8260	1,2,4-Trichlorobenzene	UJ	Low internal standard recovery.
W18ST-B51-6	SW6010	Chromium	J	High CRDL recovery.
W18ST-B51-6	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B51-6	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B51-6	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B51-6	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-6	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-6DL	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B51-14	SW8260	Cyclohexane	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B51-14	SW8260	Methylcyclohexane	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B51-14	SW8260	Benzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B51-14	SW8260	Toluene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B51-14	SW8260	Ethylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B51-14	SW8260	m-/p-Xylenes	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-B51-14	SW8260	o-Xylene	J	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-14	SW8260	Isopropylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B51-14	SW8260	All non-detected volatile compounds.	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-B51-14	SW6010	Chromium	J	High CRDL recovery.
W18ST-B51-14	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B51-14	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B51-14	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B51-14	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B51-14	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B51-14	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-14	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B51-14	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-14DL	SW8260	Toluene	J	Initial calibration %RSD >15%.
W18ST-B51-14DL	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B51-14DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-14DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-14DL2	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-14DL2	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Acetophenone	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Nitrobenzene	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Isophorone	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2-Nitrophenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Naphthalene	J	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	4-Chloroaniline	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Caprolactam	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	2-Methylnaphthalene	J	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Pyrene	J	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Butylbenzylphthalate	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	3,3'-Dichlorobenzidine	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Benzo(a)anthracene	J	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Chrysene	J	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	bis(2-Ethylhexyl)phthalate	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Di-n-octyl phthalate	UJ	Low internal standard recovery.
W18ST-B51-14DL2	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-14DL2	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-22	SW8260	Cyclohexane	J	Surrogate recovery < 10%. Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B51-22	SW8260	Methylcyclohexane	J	Surrogate recovery < 10%. Low internal standard recovery. Initial calibration %RSD >15%.
W18ST-B51-22	SW8260	Benzene	J	Surrogate recovery < 10%.
W18ST-B51-22	SW8260	Toluene	J	Surrogate recovery < 10%.
W18ST-B51-22	SW8260	Ethylbenzene	J	Surrogate recovery < 10%.
W18ST-B51-22	SW8260	m-/p-Xylenes	J	Surrogate recovery < 10%. Initial calibration %RSD >15%.
W18ST-B51-22	SW8260	o-Xylene	J	Surrogate recovery < 10%.
W18ST-B51-22	SW8260	Isopropylbenzene	J	Surrogate recovery < 10%. Low internal standard recovery.
W18ST-B51-22	SW8260	All non-detected volatile compounds.	R	Surrogate recovery < 10%.
W18ST-B51-22	SW6010	Chromium	J	High CRDL recovery.
W18ST-B51-22	SW7471	Mercury	J	High CRDL recovery. High MS/MSD recoveries. Serial dilution %D >10%.
W18ST-B51-22	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B51-22	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B51-22	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B51-22	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B51-22	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-22	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B51-22	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-22DL	SW8260	Toluene	J	Initial calibration %RSD >15%.
W18ST-B51-22DL	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	Phenol	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-22DL	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B51-22DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-22DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-22DL2	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Acetophenone	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Nitrobenzene	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Isophorone	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2-Nitrophenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Naphthalene	J	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	4-Chloroaniline	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B51-22DL2	SW8270	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Caprolactam	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	2-Methylnaphthalene	J	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Benzo(b)fluoranthene	J	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Benzo(k)fluoranthene	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Benzo(a)pyrene	J	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.
W18ST-B51-22DL2	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-22DL2	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-33	SW8260	Carbon disulfide	J	Initial calibraton %RSD >15%.
W18ST-B51-33	SW8260	m-/p-Xylenes	J	Initial calibration %RSD >15%.
W18ST-B51-33	SW6010	Chromium	J	High CRDL recovery.
W18ST-B51-33	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-B51-33	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-B51-33	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-B51-33	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-B51-33	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-B51-33	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-33	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-B51-33	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B51-33DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-B51-33DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-B64-3335	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-B64-3335	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-B64-3335	SW7471	Mercury	J	High CRDL recovery.
W18ST-B64-3335	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-B64-3335	SW6010	Selenium	J	Low CRDL recovery.
W18ST-B64-3335	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-B64-3335	SW8270	Naphthalene	J	Initial calibration %RSD >15%.
W18ST-B64-3335	SW8270	Fluorene	J	Initial calibration %RSD >15%.
W18ST-B64-3335	SW8270	Phenanthrene	J	Initial calibration %RSD >15%.
W18ST-B64-3335	SW8270	Benzo(a)anthracene	J	Initial calibration %RSD >15%.
W18ST-B64-3335	SW8270	bis(2-Ethylhexyl)phthalate	J	Initial calibration %RSD >15%.
W18ST-B64-3335	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-B64-3335	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-B64-3335DL	SW8260	Toluene	J	High MS/MSD recoveries.
W18STMGP-B73-1719	SW8260	All non-detected volatile compounds (except those flagged "R").	UJ	Low internal standard recovery.
W18STMGP-B73-1719	SW8260	Benzene	J	Low internal standard recovery.
W18STMGP-B73-1719	SW8260	Toluene	J	Low internal standard recovery.
W18STMGP-B73-1719	SW8260	Isopropylbenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard. Continuing calibration %D >90%.
W18STMGP-B73-1719	SW8260	1,1,2,2-Tetrachloroethane	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-B73-1719	SW8260	1,3-Dichlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-B73-1719	SW8260	1,2-Dichlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-B73-1719	SW8260	1,4-Dichlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-B73-1719	SW8260	1,2-Dibromo-3-chloropropane	R	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-B73-1719	SW8260	1,2,4-Trichlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-B73-1719	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-B73-1719	SW6010	Antimony	UJ	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.
W18STMGP-B73-1719	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-B73-1719	SW6010	Silver	J	Low MS/MSD recoveries.
W18STMGP-B73-1719	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-B73-1719	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-B73-1719	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-B73-1719	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-B73-1719	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-B73-1719	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-B73-1719	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-B73-1719	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18STMGP-B73-1719	SW8270	Benzo(g,h,i)perylene	UJ	Low MS/MSD recoveries.
W18STMGP-B73-1719RE	SW8260	All non-detected volatile compounds.	R	Low surrogate recovery. All internal standard recoveries are <25% of those in the associated 12-hour standard.
W18ST-COMP-4-24-04	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-COMP-4-24-04	SW8082	Aroclor 1016	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-24-04	SW8082	Aroclor 1221	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-24-04	SW8082	Aroclor 1232	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-24-04	SW8082	Aroclor 1242	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-24-04	SW8082	Aroclor 1248	UJ	Extracted 1 day past holding time expiration.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-24-04	SW8082	Aroclor 1254	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-24-04	SW8082	Aroclor 1260	J	Extracted 1 day past holding time expiration. High MS/MSD recoveries.
W18ST-COMP-4-24-04	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.
W18ST-COMP-4-24-04	SW7471	Mercury	J	High CRDL recovery.
W18ST-COMP-4-24-04	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-COMP-4-24-04	SW6010	Selenium	J	Low CRDL recovery.
W18ST-COMP-4-24-04	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18ST-COMP-4-24-04	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-COMP-4-24-04	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low MS/MSD recoveries.
W18ST-COMP-4-24-04DL	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-COMP-4-27-04	SW8260	Toluene	J	High MS/MSD recoveries.
W18ST-COMP-4-27-04	SW8082	Aroclor 1016	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1221	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1232	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1242	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1248	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1254	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW8082	Aroclor 1260	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-27-04	SW6010	Chromium	J	High CRDL recovery. Serial dilution %D >10%.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-27-04	SW7471	Mercury	J	High CRDL recovery.
W18ST-COMP-4-27-04	SW6010	Nickel	J	Serial dilution %D >10%.
W18ST-COMP-4-27-04	SW6010	Selenium	J	Low CRDL recovery.
W18ST-COMP-4-27-04	SW6010	Zinc	J	Low MS/MSD recoveries. Low PDS recovery.
W18ST-COMP-4-27-04	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-COMP-4-27-04	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-COMP-4-27-04DL	SW8270	Dibenz(a,h)anthracene	J	Continuing calibration %D >20%.
W18ST-COMP-4-27-04DL	SW8270	Benzo(g,h,i)perylene	J	Continuing calibration %D >20%.
W18ST-COMP-4-27-04DL	SW8270	Fluoranthene	J	Low MS/MSD recoveries.
W18ST-COMP-4-27-04DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18ST-COMP-4-28-04	SW8260	Methylcyclohexane	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%. Continuing calibration %D <20%.
W18ST-COMP-4-28-04	SW8260	Benzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8260	Toluene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8260	Ethylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8260	m-/p-Xylenes	J	Internal standard recovery <25% of that in the associated 12-hour standard. Initial calibration %RSD >15%.
W18ST-COMP-4-28-04	SW8260	o-Xylene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8260	Styrene	J	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8260	Isopropylbenzene	J	Internal standard recovery <25% of that in the associated 12-hour standard.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-28-04	SW8260	All non-detected volatile compounds.	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18ST-COMP-4-28-04	SW8082	Aroclor 1016	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1221	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1232	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1242	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1248	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1254	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW8082	Aroclor 1260	UJ	Extracted 1 day past holding time expiration.
W18ST-COMP-4-28-04	SW6010	Chromium	J	High CRDL recovery.
W18ST-COMP-4-28-04	SW7471	Mercury	J	High CRDL recovery. Serial dilution %D >10%. High MS/MSD recoveries.
W18ST-COMP-4-28-04	SW6010	Selenium	UJ	Low CRDL recovery.
W18ST-COMP-4-28-04	SW6010	Zinc	J	Serial dilution %D >10%.
W18ST-COMP-4-28-04	SW8270	Naphthalene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04	SW8270	2-Methylnaphthalene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04	SW8270	Carbazole	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04DL	SW8260	Toluene	J	Initial calibration %RSD >15%.
W18ST-COMP-4-28-04DL	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-28-04DL	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04DL	SW8270	Benzo(k)fluoranthene	J	Continuing calibration %D >20%.
W18ST-COMP-4-28-04DL2	SW8270	Benzaldehyde	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Phenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	bis(2-Chloroethyl)ether	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Chlorophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Methylphenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,2-Oxybis(1-chloropropane)	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Acetophenone	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	3-/4-Methylphenols	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	N-Nitroso-di-n-propylamine	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Hexachloroethane	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Nitrobenzene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Isophorone	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Nitrophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4-Dimethylphenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	bis(2-Chloroethoxy)methane	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4-Dichlorophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Naphthalene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	4-Chloroaniline	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Hexachlorobutadiene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Caprolactam	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-28-04DL2	SW8270	4-Chloro-3-methylphenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Methylnaphthalene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Hexachlorocyclopentadiene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4,6-Trichlorophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4,5-Trichlorophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	1,1-Biphenyl	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Chloronaphthalene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2-Nitroaniline	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Dimethylphthalate	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Acenaphthylene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,6-Dinitrotoluene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	3-Nitroaniline	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Acenaphthene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4-Dinitrophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	4-Nitrophenol	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Dibenofuran	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	2,4-Dinitrotoluene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Diethylphthalate	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	4-Chlorophenyl phenyl ether	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Fluorene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	4-Nitroaniline	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Pyrene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Butylbenzylphthalate	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	3,3'-Dichlorobenzidine	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Benzo(a)anthracene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Chrysene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	bis(2-Ethylhexyl)phthalate	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18ST-COMP-4-28-04DL2	SW8270	Di-n-octyl phthalate	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Benzo(b)fluoranthene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Benzo(k)fluoranthene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Benzo(a)pyrene	J	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Indeno(1,2,3-cd)pyrene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Dibenz(a,h)anthracene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Benzo(g,h,i)perylene	UJ	Low internal standard recovery.
W18ST-COMP-4-28-04DL2	SW8270	Fluorene	J	Continuing calibration %D >20%.
W18STMGP-COMP-5-16-04	SW6010	TCLP Silver	UJ	Low MS/MSD recoveries.
W18STMGP-COMP-5-16-04	SW6010	TCLP Lead	J	Serial dilution %D >10%.
W18STMGP-COMP-5-16-04	SW6010	TCLP Mercury	UJ	Low CRDL recovery.
W18STMGP-DECON-4-26-04	SW7470	TCLP Mercury	R	CRDL recovery >150%.
W18STMGP-DECON-4-27-04	SW8260	TCLP Carbon tetrachloride	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04	SW8260	TCLP Benzene	J	Low internal standard recovery.
W18STMGP-DECON-4-27-04	SW8260	TCLP 1,2-Dichloroethane	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04	SW8260	TCLP Trichloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04	SW8260	TCLP Tetrachloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-DECON-4-27-04	SW8260	TCLP Chlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-DECON-4-27-04	SW7470	TCLP Mercury	J	High CRDL recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Vinyl chloride	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP 1,1-Dichloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP 2-Butanone	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Carbon tetrachloride	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Chloroform	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Benzene	J	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP 1,2-Dichloroethane	UJ	Low internal standard recovery.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Trichloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Tetrachloroethene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-DECON-4-27-04RE	SW8260	TCLP Chlorobenzene	R	Internal standard recovery <25% of that in the associated 12-hour standard.
W18STMGP-DECON-4-28-04	SW7470	TCLP Mercury	J	High CRDL recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP Carbon tetrachloride	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP Benzene	J	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP 1,2-Dichloroethane	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP Trichloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP Tetrachloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW8260	TCLP Chlorobenzene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04	SW7470	TCLP Mercury	J	High CRDL recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP Carbon tetrachloride	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP Benzene	J	Low internal standard recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP 1,2-Dichloroethane	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP Trichloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP Tetrachloroethene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-8-04RE	SW8260	TCLP Chlorobenzene	UJ	Low internal standard recovery.
W18STMGP-DECON-5-16-04A	SW7470	TCLP Mercury	J	High CRDL recovery.
W18STMGP-DECON-5-16-04B	SW7470	TCLP Mercury	J	High CRDL recovery.
W18STMGP-DECON-52204	SW6010	TCLP Lead	UJ	Low CRDL recovery.
W18STMGP-DECON-52204	SW8270	TCLP Pentachlorophenol	R	Initial Calibration RRF and continuing calibration RF <0.050.
W18ST-RB-01	SW6010	Mercury	R	CRDL recovery <50%.
W18STMGP-TP4-56	SW8260	Isopropylbenzene	R	Continuing calibration %D >90%.
W18STMGP-TP4-56	SW6010	Thallium	UJ	Low CRDL recovery.
W18STMGP-TP4-56	SW6010	Antimony	J	Low PDS recovery. Serial dilution %D >10%. Low MS/MSD recoveries.

Table 2: Qualified Analytical Data (continued)

Field Identification	Analytical Method	Analyte	Flag	Reason for Qualification
W18STMGP-TP4-56	SW6010	Copper	J	Low MS/MSD recoveries. Low PDS recovery. Serial dilution %D >10%.
W18STMGP-TP4-56	SW6010	Silver	J	Low MS/MSD recoveries.
W18STMGP-TP4-56	SW6010	Chromium	J	Serial dilution %D >10%.
W18STMGP-TP4-56	SW6010	Lead	J	Serial dilution %D >10%.
W18STMGP-TP4-56	SW6010	Zinc	J	Serial dilution %D >10%.
W18STMGP-TP4-56	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-TP4-56	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-TP4-56	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	Hexachlorocyclopentadiene	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	2,4-Dinitrophenol	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	4,6-Dinitro-2-methylphenol	UJ	Low MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	Benzo(b)fluoranthene	J	High MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	Indeno(1,2,3-cd)pyrene	J	Low MS/MSD recoveries.
W18STMGP-TP4-56DL	SW8270	Benzo(g,h,i)perylene	J	Low MS/MSD recoveries.
W18STMGP-42804A	SW6010	TCLP Lead	J	Low CRDL recovery.
W18STMGP-42804A	SW8270	TCLP Pentachlorophenol	R	Initial Calibration RRF and continuing calibration RF <0.050.
W18STMGP-42804B	SW6010	TCLP Lead	J	Low CRDL recovery.
W18STMGP-42804B	SW8270	TCLP Pentachlorophenol	R	Initial Calibration RRF and continuing calibration RF <0.050.
W18STMGP-52204	SW6010	TCLP Lead	J	Low CRDL recovery.
W18STMGP-52204	SW8270	TCLP Pentachlorophenol	R	Initial Calibration RRF and continuing calibration RF <0.050.

Data Qualifier Definitions:

J Estimated data. The reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.

Table 2: Qualified Analytical Data (continued)

R	Rejected data.
U	The analyte was not detected.
UJ	The analyte was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.

Acronym Definitions:

CRDL	Contract Required Detection Limit
%D	Percent Difference
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Duplicate Matrix Spike
PDS	Post-Digestion Spike
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
SDG	Sample Delivery Group
TCLP	Toxicity Characteristic Leaching Procedure

Table 3: Soil Samples Analyzed for Volatile Organic Analytes More Than 10 Days After Collection

Sample	Method	Days Between Collection and Analysis
W18ST-B24-57	SW8260	12
W18ST-B24-79	SW8260	12
W18ST-B24-2527	SW8260	12
W18ST-B24-2527DL	SW8260	13
W18ST-B24-3335	SW8260	13
W18ST-B24-3335DL	SW8260	13
W18ST-B64-3335	SW8260	13
W18ST-B64-3335DL	SW8260	13
W18ST-B64-3335DL2	SW8260	14
W18ST-B24-5355	SW8260	13
W18ST-B25-79	SW8260	11
W18ST-B25-2022	SW8260	11
W18ST-B25-2022DL	SW8260	11
W18ST-B25-3233	SW8260	11
W18ST-B25-3233DL	SW8260	11
W18ST-B25-3334	SW8260	11
W18ST-B25-3334DL	SW8260	11
W18ST-B25-3334DL2	SW8260	11
W18ST-B50-23	SW8260	12
W18ST-B33-45	SW8260	12
W18ST-B32-45	SW8260	12
W18ST-B38-34	SW8260	12
W18ST-B38-45	SW8260	12
W18ST-B36-34	SW8260	12
W18ST-B22-1113	SW8260	11
W18ST-B22-1517	SW8260	11
W18ST-B22-2223	SW8260	11
W18ST-B22-2223DL	SW8260	11
W18ST-B22-2627	SW8260	11
W18ST-B22-2627DL	SW8260	14
W18ST-B23-9	SW8260	11
W18ST-B23-15	SW8260	14
W18ST-B23-17	SW8260	11
W18ST-B23-17DL	SW8260	11
W18ST-B23-24	SW8260	11

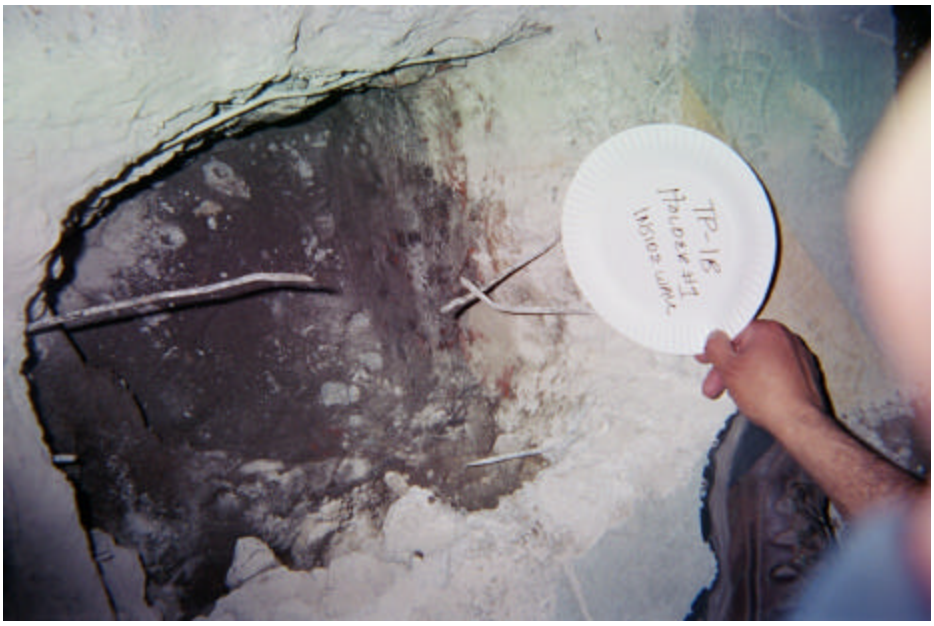
Table 3: Soil Samples Analyzed for Volatile Organic Analytes More Than 10 Days After Collection (continued)

Sample	Method	Days Between Collection and Analysis
W18ST-B23-24DL	SW8260	11
W18ST-B51-6	SW8260	11
W18ST-B51-6DL	SW8260	11
W18ST-B51-14	SW8260	11
W18ST-B51-14DL	SW8260	14
W18ST-B51-22	SW8260	11
W18ST-B51-22DL	SW8260	14
W18ST-B51-33	SW8260	11
W18ST-B50-810	SW8260	14
W18ST-B50-2123	SW8260	11
W18ST-B50-2627	SW8260	11
W18ST-B50-2627DL	SW8260	14
W18ST-B49-1012DL	SW8260	13
W18ST-B49-1415	SW8260	11
W18ST-B49-1415DL	SW8260	13
W18ST-B49-1718DL	SW8260	13
W18ST-B49-2324DL	SW8260	13
W18ST-COMP-4-28-04DL	SW8260	13
W18STMGP-B36-2527DL	SW8260	11
W18STMGP-B73-1719RE	SW8260	11
W18STMGP-B33-3537	SW8260	11
W18STMGP-B33-3941	SW8260	11

Note: All positive results are flagged with "J" qualifiers and all non-detected results are flagged with "UJ" qualifiers in the samples listed in this table. These qualifications are not listed in Table 2.

Full Analytical Data Reports from the Laboratory are included on the enclosed compact discs.

Area 1 – Test Pit 1



Area 1 – Test Pit 1B

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 1 – Test Pit 1B

Area 2 – Test Pit 2

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 2 – Test Pit 2

Area 2 – Test Pit 2

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 2 – Test Pit 2

Area 3 – Test Pit 3

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 3 – Test Pit 3

Area 3 – Test Pit 3

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 4 – Test Pit 5

Area 4 – Test Pit 5

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 3 – Test Pit 6

Area 3 – Test Pit 6

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Area 3 – Test Pit 6

Area 3 – Test Pit 6

Consolidated Edison Company of New York, Inc.
Former West 18th Street Gas Works
Appendix D - Site Photographs taken during Site Characterization Study

Remedial Investigation Work Plan

For the

Former West 18th Street Gas Works

Manhattan, New York

VCA Site # V00530-2

Prepared For:
Consolidated Edison Company of New York, Inc.
31-01 20th Avenue
Long Island City, NY 11105-2048

Prepared By:
TRC Environmental Corporation
1200 Wall Street West
Lyndhurst, New Jersey 07071

January 2006

1 INTRODUCTION

This Remedial Investigation Work Plan (RIWP) was prepared by TRC Environmental Corporation (TRC) on behalf of Consolidated Edison Company of New York, Inc. (Con Edison). It describes the field activities that will be conducted during the remedial investigation of the Former West 18th Street Works Site (the Site, VCA Site # V00530-2) in the Chelsea section of the west side of Manhattan. The former Site, which operated from approximately 1834 to approximately 1914 when the last of the gas holders were demolished, occupied a four-block area bounded by West 16th and West 20th Streets between 10th Avenue and the current bulkhead along the Hudson River. In addition, a small parcel located along the south side of West 18th Street, west of 10th Avenue, contained two gas holders. The plant included the gas works, which was located on the block between West 17th and West 18th Streets, a total of eleven above-ground gas holders previously located on various parcels, and coal storage areas. The former plant site currently contains commercial and industrial businesses that include storage warehouses, office buildings, art galleries, commercial studios and public parking lots. Implementation of the RI will generate analytical data from soil borings and monitoring wells, with which an evaluation of potential environmental impacts related to the former site operations can be completed.

2 PROJECT BACKGROUND

Con Edison has entered into a Voluntary Cleanup Agreement (Index # D2-0003-02-08) (the VCA) with the New York State Department of Conservation (NYSDEC) to investigate and, if necessary, remediate its former MGP sites and manufactured gas holder sites. The former West 18th Street Gas Works is a former manufactured gas plant, the former grounds of which are now owned by third parties.

As an initial site investigation phase, Con Edison conducted a Site Characterization Study (SCS) at the Site from 2003 to 2005. The results of the SCS showed that soil and groundwater quality beneath various areas of the site has been impacted by operations of the former MGP. Based on these findings, and in accordance with the terms of the VCA, Con Edison will conduct a Remedial Investigation (RI) at the site. The work plan presented here in outlines the technical approach to the RI and the procedures and protocols that will be implemented during the investigation.

3 PROJECT OBJECTIVES AND IMPLEMENTATION

This RIWP has been developed based on the *West 18th Street Manufactured Gas Plant Site History Report,* dated August 2002, prepared by Parsons, the *Site Characterization Study Report for the Former West 18th Street Gas Works*, dated January 2006, prepared by TRC, and the NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (December 2002).

The objectives of the RI are to:

- Delineate the horizontal and vertical extent of MGP-impacted soil and groundwater identified during the Site Characterization Study;
- Determine if soil and or groundwater conditions pose an acute health risk and if so, do these conditions warrant implementation of interim remedial measure; and
- Provide sufficient data with which to develop a proposed Site remediation strategy, if necessary.

The RIWP specifies the number, type and location of samples and the protocols and procedures that will be used during the RI. In brief, the project objectives outlined above will be achieved through:

- Installation of soil borings to further evaluate subsurface conditions, for collection and analysis of soil samples, to further delineate subsurface geology, and to further delineate the areas of the site containing MGP-affected soil, as identified during the SCS.
- Installation of a shallow (i.e., water table) groundwater monitoring wells and shallow/deep groundwater monitoring well clusters.
- Measurement of groundwater elevations to clarify groundwater flow direction, evaluation of the presence of non-aqueous phase liquids (NAPLs) in the subsurface, and collection of groundwater samples from the complete groundwater monitoring well network for laboratory analysis.

Table 1 identifies the anticipated minimum number of soil boring and monitoring well locations. It is Con Edison's objective to maintain flexibility within the RI program, to add or adjust soil boring and/or monitoring well locations based upon additional field observations or analytical data, such that the delineation efforts can be completed in a cost-effective and timely manner. The addition of potential "step-out" borings or monitoring wells to the RI program will be discussed with the NYSDEC and the New York State Department of Health (NYSDOH) prior to

implementation. It is not Con Edison's objective to demonstrate compliance of every constituent with NYSDEC RSCOs. Many of the NYSDEC RSCOs are typically exceeded in urban fill, upon which most of the Site was constructed. The field observations and analytical data will be interpreted and compared with applicable NYSDEC and NYSDOH standards, criteria and guidance values. Provisions in the previously prepared SCS site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) will be implemented during the RI fieldwork for the protection of all Site workers and the community-at-large. The CAMP was developed based on NYSDOH guidelines and in cooperation with the NYSDEC and NYSDOH. Similarly, field procedures and QA/QC protocols specified in the SCS Field Sampling Plan and the QA/QC Project Plan will also be implemented. A competent, experienced, and professional team that combines the necessary technical, regulatory, and managerial experience on MGP sites will implement the RIWP, HASP, FSP, and QA/QC Project Plan to accomplish the project objectives.

The key activities that will be completed during the RI are listed below.

- Identification and location of subsurface utilities through site reconnaissance, including geophysical surveying;
- Drilling and sampling of soil borings;
- Installation and sampling of groundwater monitoring wells;
- Surveying;
- Analysis of samples by a NYSDOH ELAP-certified laboratory; and
- Evaluation and reporting of results.

The planned field investigation, as described in this RIWP, will be implemented upon approval of the RIWP by NYSDEC and NYSDOH. A project schedule will be provided to the NYSDEC at that time. Although an attempt will be made to perform all field work in one mobilization, it is anticipated that the field work will be implemented during multiple field events as necessary in response to staggered receipt of rights-of-entry by the owners of the various properties that comprise the site, access considerations, receipt of permits, and availability of subcontractors (e.g., drillers, surveyors, etc.).

A Remedial Investigation Report will be generated upon receipt and interpretation of the analytical data. The report will include a description of the following:

1. A Site history summary;

2. A description of the physical settings of the Site;
3. A technical overview of the RI activities, including a summary of the overall nature of contamination at the Site;
4. Findings, conclusions and recommendations;
5. Scaled site maps;
6. Tabulated analytical data and laboratory analytical reports;
7. Soil boring and monitoring well construction logs; and.
8. Summary of field observations and measurements;

Interpretation of the data and field observations will be used to:

- Delineate the aerial and vertical extent of residual MGP waste materials/impacts on soil and groundwater identified during the SCS;
- Develop a proposed Site Conceptual Model;
- Update the qualitative exposure assessment, as necessary; and
- Identify the need for, and develop, a proposed Site Remediation Strategy.

The Remedial Investigation Report will be submitted to the NYSDEC and NYSDOH.

TABLE 1
PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

SAMPLE ID	LOCATION	RATIONALE/PROVIDE HORIZONTAL OR VERTICAL DELINEATION IN THE AREA OF:	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
SB-200	West of Block 691, Lot 1, in the parking lane of Route 9A.	SB-38	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-201	West of the parking lot on West 19th Street, in the parking lane of Route 9A.	SB-36 and SB-38	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-202	West of the parking lot on West 19th Street, in the parking lane of Route 9A.	SB-36 and SB-38	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-203	Northern side of 19th Street sidewalk, near western corner of Block 691, Lot 15.	SB-34	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-204	Northern side of 19th Street sidewalk, near eastern corner of Block 691, Lot 15.	SB-15 and SB-13	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-205	Northern side of 19th Street sidewalk, approximate center of Block 691, Lot 29.	SB-9	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-206	West of Block 690, Lot 12, in the right lane of Route 9A.	West of remediation area	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-207	Block 690, Lot 46, towards the northern portion of the property.	SB-15 and SB-13	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-208	Block 690, Lot 20, towards the northwestern portion of the property.	SB-12	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-209	Block 690, Lot 29, under the Highline Elevated Rail Tracks (Defunct)	SB-9 and SB-12	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-210	Southern side of 19th Street sidewalk, abutting Block 690, Lot 29.	SB-9	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-211	West of Block 690, Lot 12, in the parking lane of Route 9A.	West of remediation area	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.

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PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

SAMPLE ID	LOCATION	RATIONALE/PROVIDE HORIZONTAL OR VERTICAL DELINEATION IN THE AREA OF:	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
SB-212	Block 690, Lot 46, in the southern portion of the property.	North and east of the remediation area, and SB-14 and SB-15	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-213	Block 690, Lot 20, northwest portion of property.	East of remediation area, and SB-14	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-214	Block 690, Lot 20, northwest portion of property.	SB-12 and SB-14	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-215	Block 690, Lot 29, west central portion of the property.	SB-9, SB-10 and SB-11	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-216	Chelsea Piers service road, west of Route 9A and Block 690, Lot 12.	SB-18 and SB-26	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-217	West of Block 690, Lot 12, in the southern portion of the parking lane of Route 9A.	West of remediation area	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-218	South of Block 690, Lot 12, in the northern portion of West 18th Street.	South of remediation area, north of SB-25	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-219	Block 690, Lot 20, southwestern portion of property.	East of remediation area, and SB-14	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-220	South of Block 690, Lot 20, in the northern portion of West 18th Street (mid-block).	South of SB-14, southwest of remediation area	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-221	Block 690, Lot 20, south central portion of the property.	SB-11, SB-12 and SB-14	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-222	Block 690, Lot 20, south eastern portion of the property.	SB-11	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-223	South of Block 690, Lot 20, in the northern portion of West 18th Street near 10th Avenue.	South of SB-10 and SB-11	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.

TABLE 1
PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

SAMPLE ID	LOCATION	RATIONALE/PROVIDE HORIZONTAL OR VERTICAL DELINEATION IN THE AREA OF:	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
SB-224	Southeast of Block 690, Lot 29, on the sidewalk.	SB-10	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-225	West of Block 689, Lot 17, in the parking lane of Route 9A.	Southwest of remediation area, northwest of SB-25	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first. See Note D.
SB-226	On the southern sidewalk of West 18th Street, north of Block 689, Lot 17 (western side of the lot).	North of SB-25 and south of remediation area, with a focus on DNAPL	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of bedrock, or 100 feet, whichever is encountered first. If a low permeability unit is encountered (minimum 5-foot thickness), a steel casing will be set into the unit. Drilling will commence through the casing (a minimum of 24 hours after casing installation) to the planned terminal drilling depth.
SB-227	On the southern sidewalk of West 18th Street, north of Block 689, Lot 17 (east of SB-226).	North of SB-50 and south of remediation area	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-228	On the southern sidewalk of West 18th Street, north of Block 689, Lot 17 (eastern side of the lot).	North of SB-19 ad SB-47	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-229	On the sidewalk along 10th Avenue, east of Block 689, Lot 17	East of SB-19	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-230	Within the building footprint, northern portion of Block 715, Lot 59.	Slightly upgradient and outside of Gas Holder No. 7; believed to be hydraulically downgradient of Gas Holder No. 6	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-231	Chelsea Piers service road, west of Route 9A and Block 689, Lot 17.	SB-26 and SB-27	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-232	Northwestern portion of Block 689, Lot 17.	Between SB-24 cluster and SB-25, focus on DNAPL	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of bedrock, or 100 feet, whichever is encountered first. If a low permeability unit is encountered (minimum 5-foot thickness), a steel casing will be set into the unit. Drilling will commence through the casing (a minimum of 24 hours after casing installation) to the planned terminal drilling depth.

TABLE 1
PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

SAMPLE ID	LOCATION	RATIONALE/PROVIDE HORIZONTAL OR VERTICAL DELINEATION IN THE AREA OF:	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
MW/SB-233	Western portion of Block 689, Lot 17.	East of SB-24 cluster, focus on DNAPL	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of bedrock, or 100 feet, whichever is encountered first. If a low permeability unit is encountered (minimum 5-foot thickness), a steel casing will be set into the unit. Drilling will commence through the casing (a minimum of 24 hours after casing installation) to the planned terminal drilling depth.
SB-234	Northeastern portion of Block 689, lot 17.	South of SB-19 and SB-47	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-235	Chelsea Piers service road, west of Route 9A and West 17th Street.	South of SB-27, north of SB-43	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-236	Southwestern portion of Block 689, Lot 17.	South of SB-24 cluster, focus on DNAPL	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of bedrock, or 100 feet, whichever is encountered first. If a low permeability unit is encountered (minimum 5-foot thickness), a steel casing will be set into the unit. Drilling will commence through the casing (a minimum of 24 hours after casing installation) to the planned terminal drilling depth.
SB-237	On the northern sidewalk of West 17th Street, southwestern area of Block 689, Lot 17.	Southeast of SB-24 cluster and south of SB-51, focus on DNAPL	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of bedrock, or 100 feet, whichever is encountered first. If a low permeability unit is encountered (minimum 5-foot thickness), a steel casing will be set into the unit. Drilling will commence through the casing (a minimum of 24 hours after casing installation) to the planned terminal drilling depth.
MW/SB-238	South of Chelsea Piers, west of Route 9A and Block 688, Lot 1001.	East of SB-43, SB-44, SB-45, SB-46 area	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-239	Within Route 9A parking lane, northern area, west of Block 688, Lot 1001.	Unexplored area, vicinity of former Gas Holders (Nos. 8, 9, 10, and 11)	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-240	Within the building footprint, northwestern corner of Block 688, Lot 1001.	Unexplored area, vicinity of former gas holders. West of SB-30, further south of SB-237	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-241	Within the building footprint, central portion of Block 688, Lot 1001.	South of SB-30	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.

TABLE 1
PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

SAMPLE ID	LOCATION	RATIONALE/PROVIDE HORIZONTAL OR VERTICAL DELINEATION IN THE AREA OF:	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
SB-242	Within the building footprint, north central portion of Block 688, Lot 1001.	Unexplored area, southeast of SB-30	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-243	Within the building footprint, northeastern portion of Block 688, Lot 1001.	Unexplored area, southeast of SB-30	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-244	Within the building footprint, northeastern portion of Block 688, Lot 1001.	Unexplored area, east of SB-30	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-245	South of Chelsea Piers, west of Route 9A and Block 688, Lot 1001.	Southeast of SB-43, SB-44, SB-45 and SB-46 area	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-246	Within Route 9A parking lane, southern area, west of Block 688, Lot 1001.	Unexplored area, vicinity of former Gas Holders (Nos. 8, 9, 10, and 11)	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-247	Within the building footprint, southwestern area of Block 688, Lot 1001.	Unexplored area, east of former Gas Holders (Nos. 8, 9, 10, and 11)	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
MW/SB-248	Within the building footprint, south central portion of Block 688, Lot 1001.	Unexplored area, east of former Gas Holders (Nos. 8, 9, 10, and 11)	Soil/GW	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.
SB-249	Within the building footprint, southeastern portion of Block 688, Lot 1001.	Unexplored area, east of former Gas Holders (Nos. 8, 9, 10, and 11)	Soil	See Note A.	Hollow Stem Auger and Split-Spoon	TCL VOCs, TCL SVOCs, PP Metals. See Notes B and C.	Top of first low permeability unit (5-foot minimum thickness), top of bedrock, or 50 feet bgs, whichever is encountered first.

NOTES:

A: Up to five (5) soil samples may be collected from each soil boring, dependent upon the field conditions encountered. See Section 3.3.2 of the SCS Report for sampling strategies.
B: Additional sample parameters may include GC Fingerprint, Diesel Range Organics, and/or Gasoline Range Organics based upon the discretion of the field geologist.
C: TCL VOCs will be analyzed using Method 8260B. TCL SVOCs will be analyzed using Method 8270C. PP Metals will be analyzed using Method 6010B/7000 Series. All referenced methods are taken from the most recent version of USEPA SW-846.

bgs = below ground surface

TABLE 2
PROPOSED REMEDIAL INVESTIGATION SAMPLING RATIONALE
FORMER WEST 18TH STREET GAS WORKS

TYPE/ID	LOCATION	RATIONALE	MATRIX	SAMPLE DEPTH(S)	METHOD	ANALYTICAL PARAMETERS	COMPLETION DEPTH
MW-213A	Northwestern corner of Block 690, Lot 20.	Identify potential impacts in the fill unit hydraulically downgradient from the MW-12 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0003	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-217A	West of Block 690, Lot 12, in the southern portion of the parking lane of Route 9A.	Identify potential impacts in the fill unit hydraulically downgradient from the remediation area.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-217B	West of Block 690, Lot 12, in the southern portion of the parking lane of Route 9A.	Identify potential impacts in the underlying aquifer hydraulically downgradient from the SB-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0002	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation. The monitoring well will be double-cased and installed in a semi-confined or confined aquifer. See Note D.
MW-219A	Southwestern corner of Block 690, Lot 20.	Identify potential impacts in the fill unit hydraulically downgradient from the MW-12 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0004	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-222A	Southeastern corner of Block 690, Lot 20.	Identify potential impacts in the fill unit hydraulically downgradient from former Gas Holders (Nos. 3 and 4).	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0005	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-224A	Southeast of Block 690, Lot 29, on the sidewalk.	Identify potential impacts in the fill unit hydraulically side/upgradient from former Gas Holders (Nos. 3 and 4).	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0006	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-231A	Chelsea Piers service road, west of Route 9A and Block 689, Lot 17.	Identify potential impacts in the fill unit hydraulically downgradient from the remediation area and west of MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-231B	Chelsea Piers service road, west of Route 9A and Block 689, Lot 17.	Identify potential impacts in the underlying aquifer hydraulically sidegradient from the remediation area and west of MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation. The monitoring well will be double-cased and installed in a semi-confined or confined aquifer. See Note D.
MW-232A	Northwestern portion of Block 689, Lot 17.	Identify potential impacts in the fill unit near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-232B	Northwestern portion of Block 689, Lot 17.	Identify potential impacts in the underlying aquifer near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation. The monitoring well will be double-cased and installed in a semi-confined or confined aquifer. See Note D.
MW-233A	Western portion of Block 689, Lot 17.	Identify potential impacts in the fill unit near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-233B	Western portion of Block 689, Lot 17.	Identify potential impacts in the underlying aquifer near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation. The monitoring well will be double-cased and installed in a semi-confined or confined aquifer. See Note D.
MW-236A	Southwestern portion of Block 689, Lot 17.	Identify potential impacts in the fill unit near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-236B	Southwestern portion of Block 689, Lot 17.	Identify potential impacts in the underlying aquifer near MW-24 cluster.	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation. The monitoring well will be double-cased and installed in a semi-confined or confined aquifer. See Note D.
MW-238A	South of Chelsea Piers, west of Route 9A and Block 688, Lot 1001.	Identify groundwater quality in the fill unit in the vicintiy of the former Gas Holders (Nos. 8, 9, 10, and 11).	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-246A	Within Route 9A parking lane, southern area, west of Block 688, Lot 1001.	Identify groundwater quality in the fill unit in the vicintiy of the former Gas Holders (Nos. 8, 9, 10, and 11).	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.
MW-248A	Within the building footprint, southcentral portion of Block 688, Lot 1001.	Identify groundwater quality in the fill unit in downgradient of SB-30 and sidegradient (east) to the former Gas Holders (Nos. 8, 9, 10, and 11).	Aqueous	Monitoring Well screen mid-point, based upon EPA SOP#: GW 0001	Hollow Stem Auger	TCL VOCs, TCL SVOCs, and PP Metals. See Notes A and B.	TBD during field investigation, but not expected to exceed 25 feet bgs. See Note C.

NOTES:

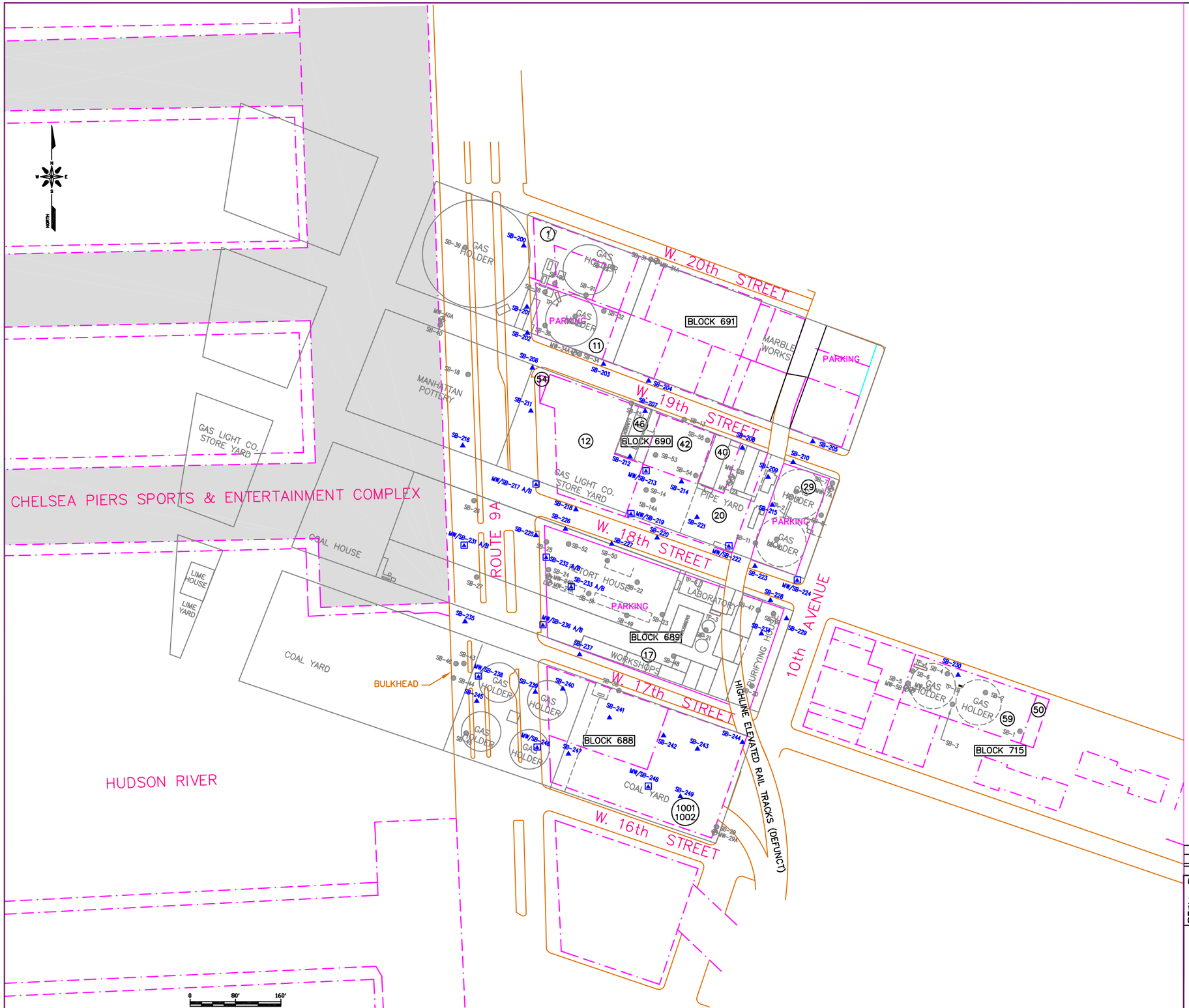
A: If LNAPL or DNAPL (measured at a thickness of greater than 1/16-inch), a groundwater sample will not be collected. Instead, a sample of the product will be collected and analyzed for GC Fingerprint, Diesel Range Organics, and/or Gasoline Range Organics based upon the discretion of the field geologist.

B: TCL VOCs will be analyzed using Method 8260B. TCL SVOCs will be analyzed using Method 8270C. PP Metals will be analyzed using Method 6010B/7000 Series. All referenced methods are taken from the most recent version of USEPA SW-846.

C: Each well will be constructed using 2-inch diameter polyvinyl chloride (PVC) casing and slotted screen. The screen will be a 20-slot, 10-feet long and installed such that it straddle the water table with 7 feet of screen below and 3 feet above the water table). In addition, each well will include a two-foot long sump for the collection of dense non-aqueous phase liquid (DNAPL), if encountered during drilling.

D: Each well will be constructed using a steel casing set 2 to 3 feet into the low permeability semi-confining or confining unit (minimum thickness of the unit is 5 feet). A minimum of 24 hours will be allowed for the grout to cure prior to resuming drilling activities. The monitoring well will be constructed of 2-inch diameter PVC casing and slotted screen. The screen will be a 20-slot,10-feet long, and installed such that the top of the well screen is within 1 foot of the bottom of the low permeability semi-confining or confining unit.

bgs = below ground surface



- ▲ PROPOSED RI SOIL BORING LOCATION
- ▲ PROPOSED RI MONITORING WELL LOCATION
- ▭ SCS TEST PIT LOCATION (TP–)
- ● SCS SOIL BORING LOCATION (SB–)
- ⊕ SCS MONITORING WELL LOCATION (MW–)
- HISTORIC FEATURES

SYMBOL	REVISIONS	DATE	APPROVAL

TRC
Customer–Focused Solutions
1200 Wall Street West, 2nd Floor
Lyndhurst, New Jersey 07071
(201) 933–5541

CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.

FIGURE 1

PROPOSED REMEDIAL INVESTIGATION SAMPLE LOCATIONS

DESIGN:		SHEET	OF
DRAWN:		SCALE: SEE GRAPHIC SCALE	
CHECKED:			