

Remedial Investigation Report

Lower South Street Redevelopment Area Brownfield Cleanup Program

NYSDEC Site No. C360145

1005, 1009, 1011, 1013, and 1017 Lower South Street
City of Peekskill, Westchester County, New York

Revised January 2017



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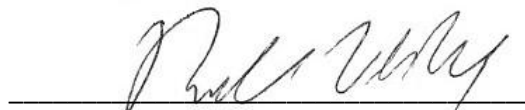
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I Russell Urban-Mead certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with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



Russell Urban-Mead, PG, CPG

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EXECUTIVE SUMMARY

The 11.6-acre Lower South Street (LSS) Site is comprised of two general areas: the Former L&L Salvage Site at 1005 and 1009 LSS, and the Former Global Recycling Site at 1011, 1013, and 1017 LSS. The Former L&L Site was initially developed as a residence which was converted to a junkyard property in 1950. The Former Global Recycling Site was also previously used for a residence, transitioning to a wood waste processing facility and operating a transfer station for construction and demolition (C&D) waste. The LSS Site is current unoccupied and includes four buildings, areas of soil stockpiles, paved areas, and overgrown vegetation. The historic source of contaminants is past automotive salvage activities and fill material. LSS Site soils include native soils and between 1 and 15 feet of fill material over bedrock, which is typically encountered between 1 and 13 feet bgs. Perched groundwater is occasionally encountered in overburden but groundwater is otherwise interpreted to reside only in the underlying fractured bedrock.

This Remedial Investigation (RI) Report describes supplemental site investigation activities that were implemented to evaluate and further delineate the nature and extent of identified historic environmental impacts at this Brownfields Cleanup Program (BCP) property (BCP C360145). This RI supplements significant data collected and reported in a 2014 Phase II Investigation report prepared by The Chazen Companies, a 2013 Site Closure Investigation Report/Facility Closure Plan prepared by Woodard & Curran (W&C), and a 2011 Environmental Site Investigation prepared by Tectonic Engineering & Surveying Consultants P.C. (Tectonic).

Across the five addresses of the LSS Site, identified compounds of concern in soil consist of polycyclic aromatic hydrocarbons (PAHs) and select metals on the Former L&L Site, sporadic occurrences of select metals on the northern end of 1011 LSS, metals at the western end of 1013 LSS, and select metals and polychlorinated biphenyls (PCBs) on the Former Global Recycling Site.

This RI served to more clearly define the location of otherwise well-known soil impacts so that more precise remedial alternatives can be developed and assessed. Since extensive investigations have been performed on the Former Global Recycling Site, the areas of investigation focused primarily on the Former L&L Site, although some supplemental sampling was also completed on the Former Global Recycling Site.

Based on this RI and prior reports, impacts to soil have now been delineated on the Former L&L Site (metals and PAHs) and between the office and Building 6 on 1017 LSS (lead and PCBs). This sampling identified another area of surface soil metals impacts in the center of the Former L&L Site that will be addressed during the remedy, as will removal of stockpiled materials. Soil removal actions are anticipated in northern and central parts of the Former L&L Site (metals and PAHs), at the western end of 1013 LSS, and between the office and Building 6 on 1017 LSS (lead and PCBs).

PAH impacts exceeding RRSCOs are present in 52 samples from the top two feet of soil across the LSS Site, were generally consistent across this urban property, and total semi-volatile organic compounds (SVOCs) are less than 100 ppm, with three exceptions that had a maximum total SVOC concentration of 403.57 ppm. There was no identified source associated with the three outliers and are considered to be associated with the urban area and site-wide fill material. To prevent exposure in the three areas of elevated PAHs, a soil cover or removal action is anticipated where the ground may be accessible to occupants.

Groundwater has generally not been encountered on the LSS Site, with very limited instances of perched groundwater. Two 2010 investigation locations encountered perched groundwater east of Building 3 and west of the office building, and reported no VOC or SVOC impacts. W&C's 2012 sampling encountered perched groundwater in one test pit west of Building 3 on 1013 LSS, and reported elevated concentrations of methyl tertiary-butyl ether (MTBE), SVOCs, and lead. Chazen encountered perched groundwater in one soil boring on 1017 LSS and the water sample met groundwater quality standards (GWQSS) for volatile organic compounds (VOCs), SVOCs, and PCBs. Exceedances of GWQSS were associated with sodium that is likely due to runoff from winter road salt applications and manganese that may be associated with fill material that is prevalent across the LSS Site. No remedy is anticipated for the limited perched groundwater at the LSS Site.

While VOCs have not been identified as a soil or groundwater contaminant at the LSS Site, approximately one third of vapor samples identified chlorinated VOC concentrations greater than the slab vapor action levels. Tetrachloroethene (PCE) and/or its degradation products were reported in some of these samples along with compounds associated with petroleum and automotive fluids. As a precaution, it is anticipated that the remedy will include installation of a vapor barrier with an option for an active sub-slab depressurization system (SSDS) in buildings to be constructed or used outside the building on 1013 LSS, the northern end of 1011 LSS, or the area of the existing office building on 1017 LSS. Deployment of the active SSDS would be conditional on post-construction indoor air sampling.

No further remedial investigation is recommended for the LSS Site. Sufficient data have been generated to be able to work with the developer to create a remedial strategy consistent with the BCP goals and the planned future use at the property that may include a hotel, retail, sports facility, and/or multi-family housing.

1.0 INTRODUCTION

This Remedial Investigation Report (RIR) describes the supplemental site investigation activities conducted to evaluate and delineate the nature and extent of historic environmental impacts identified at the Lower South Street Redevelopment Area (hereinafter referred to as the “LSS Site”). The LSS Site is located at 1005, 1009, 1011, 1013, and 1017 LSS in the City of Peekskill, Westchester County, New York. Chazen, on behalf of the City of Peekskill, completed this investigation under the New York State Brownfields Cleanup Program (BCP). This site is identified as BCP number C360145. This RIR was conducted with the oversight of the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH).

1.1 Remedial Investigation Objectives

The remedial investigation objective was to refine delineation of the nature and extent of contaminant impacts to soil, soil vapor, and groundwater for use in fate/transport assessment, and for use in evaluating and designing appropriate remedial methods, if needed. Investigation objectives were met through the collection and field screening and laboratory analysis of soil samples for contaminants of concern.

1.2 Site Description

A summary of background information for the LSS Site follows and contains a site description, site history, the area geology and hydrogeology, and known and suspected areas of concern. This information provided the basis for developing the sampling approach. This section of the RIR also summarizes relevant data and reports from previous investigations.

1.2.1 Site Location

The LSS Site is an 11.6-acre unoccupied property situated east of Lower South Street, south of Travis Lane, and west of Route 9 in the City of Peekskill, Westchester County, New York. The area is currently zoned M-2A: Industrial Design District. The intended future use is mixed-use commercial activity with possible hotel, retail, sports facility, and/or multi-family housing, for which the City plans to rezone the LSS Site to be consistent with the intended use. A map illustrating the site location is attached as **Figure 1**. The LSS Site is identified on the Westchester County Real Property Tax map as Section 32.20, Block 2 Lots 4, 5, 5.1, 6, and 7. The LSS Site and surrounding areas are shown on an orthophotograph as **Figure 2**, and a tax map as **Figure 3**.

1.2.2 Property Uses

The LSS Site is currently vacant, but was most recently used by separate parties for two different adjoining uses: the Former L&L Salvage Site occupied 1005 and 1009 LSS for auto salvage and

junkyard activities, and the Former Global Recycling Site occupied 1011, 1013, and 1017 LSS as a solid waste recycling and transfer station.

Nearby land uses are diverse. The LSS Site is situated south of Travis Lane, the City Maintenance garage, a vacant residence, and wooded County land; east of Lower South Street, automotive repair facility, vacant commercial space, multi-family housing, office space, a tree removal service, and a sand and gravel facility; north of HBA automotive (Sena Brothers) and Mearl Corporation; and west of State Route 9, with residential properties beyond.

1.2.2.1 Past Property Uses

The 2.81-acre Former L&L Site at 1005 and 1009 LSS has been vacated by the prior salvage and junkyard owner/operator. The Former L&L Site appears to have been initially developed as a residential site with a junkyard present from 1950.

The 8.79-acre Former Global Recycling Site at 1011, 1013, and 1017 LSS (formerly owned by Karta Corporation) was historically used for a residence, transitioning to processing wood waste and operating a transfer station for construction and demolition (C&D) waste. An office building on the western side of 1017 LSS was constructed circa 1981. Building 6 on the eastern side of 1017 LSS was constructed in 1988-1989. Building 4 on the southern end of 1011 LSS was constructed circa 2000. Building 3 on 1013 LSS was constructed between 2002 and 2004. Two additional buildings (1 and 2) were constructed on the northern area of 1011 LSS circa 2002 and demolished between April 2004 and October 2006. Building numbering from other reports has been used here for consistency.

1.2.2.2 Current Property Use

The LSS Site is currently vacant.

The Former L&L Site includes an inactive scale pit, a soil pile (previously estimated at 14,100 cubic yards), a pile of cobbles and boulders, a pile of mixed debris including cobbles, boulders, and concrete, some vehicle parts, and vegetated areas.

The Former Global Recycling Site contains four single-story, slab-on-grade buildings (office, and Buildings 3, 4 and 6). Paved driveways lead up to the buildings with paved areas on the front sides of the structures.

1.2.2.3 Proposed Future Property Uses

The desired future use is as a mixed-use, slab-on-grade, commercial center (e.g., hotel, sports facility) which may possibly include multi-family housing.

1.2.3 Environmental Setting

This section provides information on the site geology, soils, hydrogeology, surface water resources, and land uses in the site vicinity

1.2.3.1 Geology

Soils observed on the Former L&L Site and 1011 and 1017 LSS parcels during Chazen's 2014 Phase II Investigation and 2016 RI included both natural and fill material. Refusal at bedrock was encountered between 1 and 13 feet below ground surface (bgs) in most borings. Refusal was not encountered within 15 feet bgs in just four of 16 borings installed in 2014 and three of 29 borings installed in 2016. Using site investigation data and site elevation contours from the 2013 W&C report, Figure 5 provides a bedrock contour map and Figure 6 provided a Stratigraphic Cross-Section for the LSS Site.

Fill thicknesses range from 1 foot to at least 15 feet thick, and consist of brick, concrete, wood, rock, and asphalt. In addition:

- Fill material at the Former L&L Site also included coal/ash and fragments of the local bedrock were encountered near the bedrock surface.
- Fill material at 1011 LSS also included tile and glass, and exhibited an odor described as burnt or septic-like in some locations.
- Approximately half of the borings at 1011 LSS included what appeared to be undisturbed sand, silt, gneiss, and/or till.
- Fill material at 1013 LSS also included glass, coal/slag/ash, C&D waste including lumber, piping, fencing, rebar, and wire.
- Fill material at 1017 LSS included coal ash, glass, plastic, scrap metal, and a coal-like material.

A review of the Surficial Geologic Map of New York (Lower Hudson Sheet, 1989) indicates that surficial soils in the area of the Site are mapped as till. The United States Department of Agriculture (USDA) Soil Conservation Service's Soil Survey of Westchester County, New York maps soils on the Site as being composed of four soil types. Soils in Charlton-Chatfield complex, rolling, very rocky are described as acid loamy till derived mainly from schist, gneiss or granite. Soils in Charlton-Hollis Rock outcrop complex, rolling are described as a thin mantle of loamy till derived mainly from schist, granite and gneiss. Soils in Charlton-Hollis Rock outcrop complex, hilly are described as loamy till derived mainly from schist, granite and gneiss. Soils in Udorthents smoothed complex are described as gravelly and very gravelly loam.

According to the Soil Survey, depth to groundwater at the Site is generally greater than 18 inches below grade. Groundwater was not observed during the 2011 or 2014 investigations. Bedrock in the area of the LSS Site is mapped as greater than 10 inches below grade according to the above-referenced Soil Survey and Surficial Geologic Map and is mapped on the Geologic Map of New

York (Lower Hudson Sheet, 1970) as Upper Ordovician-aged mafic igneous and metamorphic rock.

1.2.3.2 Hydrogeology

The site does not support a consistent groundwater presence in overburden. Most soil borings over prior investigations encountered no groundwater. Perched groundwater was found above the bedrock surface during two previous investigations only in four locations, and perched groundwater was encountered only in one boring during the 2016 RI.

Within the underlying fractured bedrock formation, topography predicts groundwater migrates generally westward in the direction of the Hudson River. A 2014 SPLP data evaluation suggested that groundwater in the bedrock is unlikely to exceed Groundwater Quality Standards (GWQS).

Site contaminants do not present a groundwater exposure pathway due to direct ingestion as the LSS Site and surrounding properties are supplied with municipal water and sewer. The City of Peekskill's water source is Hollow Brook, which is fed by two reservoirs, each of which is located up gradient of the LSS Site.

1.2.3.3. Surface Water Resources

No surface water bodies are present on the LSS Site. The Hudson River is located approximately 0.30 miles to the west.

An unnamed Hudson River tributary nearest to the LSS Site is located approximately 0.08 mile to the north of the LSS Site, and outlets to Sandy Cove. Another tributary to the Hudson River, the Dickey Brook, is located approximately 0.32 miles south of the Site, flowing westward from the Blue Mountain Reservation area southeast of the City of Peekskill which includes Lake Mitchell and Lounsbury Pond. LSS Site stormwater is expected to flow towards these two tributaries and thence to the Hudson River.

1.2.4 Environmental History

Multiple previous investigations were conducted on the LSS Site and were discussed in more detail in the Work Plan. At the Former L&L Site, multiple spill response activities were conducted between 2000 and 2011, with the most recent pre-BCP sampling occurring in 2014 by Chazen with ASP B data deliverables. At 1011 LSS, an extensive sampling program was implemented in 2011 by Tectonic supplemented in 2014 by sampling by Chazen with ASP B data deliverables. Finally, extensive sampling by Woodard and Curran (W&C) was conducted on 1013 LSS and 1017 LSS, with the latest pre-BCP 2013 site characterization data including ASP B data and associated data validation. **Figure 4** provides a summary of prior sampling results that exceed the Restricted-Residential Use SCOs.

Findings of prior reports were used to develop areas of concern (AOCs) to be addressed during the Remedial Investigation reported upon here. The supplemental sampling was intended to meet the Remedial Investigation objectives to sufficiently characterize the LSS Site, and also potentially be sufficient to allow closure of open NYSDEC Spill #0010387 on the Former L&L Site.

Former L&L Site (1005 and 1009 LSS). Open NYSDEC Spill #0010387.

Excavation in 2003 generated stockpiles that remain on the Former L&L Site. Chazen's 2014 soil borings to assess remaining soil conditions in both the 0 to 2-foot depth interval and deeper intervals (ranging from 4 to 10 feet bgs) did not identify VOC or PCB impacts (ASP B data were collected for nine 2014 borings on the 1.8 acres). SVOCs were detected at concentrations greater than the RRSCOs in the northern part of the Former L&L Site in the 0 to 2-foot depth interval and in one deeper sample location (slightly exceeding the SCOs). Elevated lead was also present in one northwestern boring in the 0 to 2-foot depth interval.

2016 RI sampling in this AOC included:

- Soil sampling to further assess soils in the northern part of the Former L&L Site (near prior Chazen borings SB-1, SB-2, and SB-6). Confirmatory delineation borings included surface soil and deeper samples. COCs for this area were SVOCs, PCBs, and lead. In addition, to confirm the understood absence of VOCs in this area, 20% of soil samples were analyzed for VOCs.
- Soil gas samples were collected to screen for VOCs.
- Chazen's 2014 data were submitted for evaluation in a DUSR.
- The presence of several material stockpiles made sampling beneath them impractical. Sampling beneath the stockpiles was reserved as confirmatory work to be completed during implementation of the site remedy that would include the removal and disposal of the stockpiles.
- Groundwater was not encountered during the RI so was not sampled. The absence of groundwater was consistent with Former L&L Site investigations.

1011 LSS (part of Former Global Recycling Site).

The 2011 Site Investigation at 1011 LSS by Tectonic identified fill material and two primary impact areas that reported concentrations of PAHs, PCBs, mercury or arsenic greater than the Part 375 RRSCOs. Reported exceedances were north of Building 4 and near former Buildings 1 and 2, and appeared to be associated with fill material that includes asphalt and fill material. Elevated barium concentrations were also reported. Soil vapor sampling at the northern end of this parcel suggested the presence of VOCs in soils; however, corresponding soil sampling met Unrestricted Use SCOs for VOCs. In general, Chazen's 2014 sampling confirmed results of prior sampling.

2016 RI sampling in this AOC included:

- A subslab vapor sample was collected from Building 4 to screen for subsurface VOCs.
- Surface soil samples were collected from the unpaved northern part of 1011 LSS.
- Chazen's 2014 data were submitted for evaluation in a DUSR.
- Groundwater was not encountered during the RI so was not sampled. The absence of groundwater was consistent with previous 1011 LSS investigations.

1013 and 1017 LSS (part of Former Global Recycling Site). W&C's extensive sampling was documented in their 2013 Site Closure Investigation Report/Facility Closure Report, and the results were evaluated in a DUSR. Given the extensive sampling performed to-date on 1013 LSS and 1017 LSS, only limited additional sampling was recommended by Chazen and approved by NYSDEC to be conducted under the 2016 RI.

2016 RI sampling for this AOC included:

- Area between Building 6 and office building on 1017 LSS. Since prior sampling identified lead and PCB-impacted soil, additional borings were installed to delineate lead and PCB impacts in this area. In addition, to confirm the understood absence of VOCs in this area, 20% of soil samples were analyzed for VOCs.
- Soil vapor sampling was conducted in two locations in the area northwest of Building 3 on 1013 LSS to screen for subsurface VOCs.
- Subslab vapor samples were collected from Buildings 3, 6, and the office building.
- Consistent with prior investigations in this area, perched groundwater was encountered in a limited number of borings. During the 2016 RI, perched groundwater was encountered in just one boring and was sampled.

2.0 BCP SOIL, GROUNDWATER, AND SOIL VAPOR INVESTIGATION

The intended RI activities were described in the site's BCP Work Plan that was approved by NYSDEC on June 17, 2016. The Work Plan included the Field Sampling Plan (FSP), Health and Safety Plan (HASP), Community Air Monitoring Plan (CAMP), and Quality Assurance Project Plan (QAPP). Site activities were performed following the methods described in the planning documents, with few exceptions as noted in this report.

Field work for this investigation was conducted between July 5 and July 11, 2016, and included the installation of 29 soil borings, field screening of the borings for VOCs and lead, the collection of surface and subsurface soil samples, sampling one groundwater sample where perched groundwater was encountered, and the collection of soil vapor and subslab soil vapor samples. The 2016 RI sampling locations are shown on **Figure 4**, with sampling locations from previous investigations also shown for comparison.

Samples were shipped to Chemtech, a New York State Environmental Laboratory Approval Program (NYS ELAP) certified laboratory, for analysis. ASP Level B deliverables were generated in order to evaluate data quality and to ensure that data quality was sufficient to make decisions regarding the need for further investigation. Laboratory summary tables for this RI are provided in **Appendix B**, with prior results summaries included in **Appendix C** for the 2014 Phase II Investigation, and **Appendix D** for other prior investigations. The Chemtech analytical reports are provided in **Appendix F**. The data were reviewed and the Data Usability Summary Reports (DUSRs) provided in **Appendix E** were prepared by Data Validation Services. The data are being entered into NYSDEC's EQulS system and the remaining electronic submittal is included in **Appendix F**.

2.1 Soil Quality Investigation

Soil borings were installed in the northeastern area of the Former L&L Site on July 5 and 6, in the northwestern area of the Former L&L Site on July 7, and between Building 6 and office building on 1017 LSS on July 8. In addition to the borings, five surface soil locations were sampled on July 6, 2016 from unpaved areas within Former L&L Site and northern part of LSS 1011.

2.1.1 Soil Boring Installation

Soils borings were installed with a Geoprobe Systems® 6620DT direct push machine. The soil core samples were collected utilizing a five-foot Geoprobe® Macro-Core® sampler. The Macro-Core sampler was lined with plastic sleeves which, when removed from the sampler, were cut open vertically to allow examination of relatively undisturbed five-foot interval samples. Geologic observations are presented in Section 1.2.3.1 and in the boring logs included in **Appendix A**.

Soil borings were installed to depths ranging from 3 to 15 feet bgs. Refusal was encountered in 26 of the 29 borings at depths ranging between 3 and 13 feet bgs. Borings SB-09, SB-15, and SB-22 did not encounter refusal at the Work Plan's planned maximum boring depth of 15 feet bgs.

One 55-gallon drum containing soil cuttings was sealed, labeled, and left on Site inside Building 6.

2.1.2 Soil Boring Sampling

At each boring, a Chazen geologist evaluated the soil profile, field screened soil, and collected laboratory soil samples consistent with planned investigation activities described in the FSP.

Consistent with the FSP, soil was screened for VOCs by placing soil aliquots in a plastic bag and using a photoionization detector (PID). Total VOC readings were measured with a PID in the headspace air in the bag above the soil.

Soil samples collected around prior sample locations LL-SB-1 and TP-2 were also field screened for lead using a handheld x-ray fluorescence (XRF) spectrometer. PID and XRF readings were recorded on the soil boring logs and field notes. Typically, one sample was collected across 5-foot intervals of consistent geologic material, while multiple samples from 5-foot interval samples were screened when geologic or other physical changes were noted.

Soil samples for analysis were collected into laboratory-supplied containers, which were then labeled and placed in a cooler with ice before being shipped to the analytical laboratory. Standard chain-of-custody procedures were followed as presented in the QAPP. Samples were analyzed for constituents specified in the FSP.

2.1.3 Surface Soil Sampling

Five surface soil samples (SS-01 through SS-05) were collected from 0 to 2 inches bgs depth interval using dedicated, disposable plastic scoops. Samples were screened for VOCs consistent with procedures described in Section 2.1.2.

2.1.4 Soil Sampling Results

Analytical soil sampling results are summarized in **Tables 1 through 4** with comparison to NYSDEC Part 375 Unrestricted Use (UU) and Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs). **Tables 2.1.4a through 2.4.1c** are provided in the text to show RI and 2014 Phase II sample results that exceed USCOs and RRSCOs. Sample analyses and results for each AOC are discussed below in the following sections. Several trace acetone concentrations were reported above the USCO but significantly lower than the RRSCO; as acetone is a common laboratory artifact it is not considered a site contaminant or discussed further.

2.1.4.1 Former L&L Site (1005 and 1009 LSS)

Northeastern PAH Delineation Area (see Figure 4A). Ten borings were installed in this area (SB-1 through SB-10) to further delineate previously identified PAH impacts in the 2014 LL-SB2, LL-SB6, and LL-SB6A soil boring locations. At each boring, soil samples were collected from the 0 to 2 inch, 0 to 2 foot, and bottom depth intervals for analysis of full list SVOCs, which includes PAHs. Samples from borings SB-05 and SB-10 were also analyzed for TAL Metals and PCBs at each sampled depth interval, and full list VOCs (0 to 2 foot depth interval only). RI results are discussed below along with an evaluation with previous investigation results.

- RI PAH sample results were less than USCOs in three of ten borings. PAHs concentrations exceeding RRSCOs were reported in the 0 to 2-inch samples in four borings, and in the 0 to 2-foot samples from five borings. Among these samples, seven individual PAH concentrations exceeded USCOs and six individual PAH concentrations exceeded RRSCOs (benzo(a)anthracene in five borings, benzo(a)pyrene in six borings, benzo(b)fluoranthene in seven borings, chrysene in one boring, dibenzo(a,h)anthracene in two borings, and

indeno(1,2,3-cd)pyrene in six borings). Individual PAH concentrations were less than 2.6 ppm except in SB-9(0-2ft) where the highest PAH concentration was 6.2 ppm. The average SVOC concentrations ranged from 0.28 to 1.8 ppm, except for SB-9(0-2ft) that averaged 4.09 ppm. Soil borings exhibiting these elevated values were SB-2, SB-3, SB-4, SB-5, SB-6, SB-8, and SB-9.

Considering also pre-BCP samples, PAH impacts exceeding RRSCOs are present in the top two feet of soil in this area, and do not extend to the deeper samples where PAHs mostly meet USCOs. The highest PAH concentrations were found in SB-9(0-2ft) (6.2 ppm) and the two 2014 borings LL-SB2(0-2ft) (14.8 ppm) and LL-SB6(0-2ft) (23.3 ppm).

- RI metals concentrations exceeding USCOs were reported in the SB5 and SB10 samples. The top two inches of SB-5 reported cadmium, copper and lead concentrations that greater than RRSCOs, while composite concentrations in the top two feet were less than RRSCOs. Similarly, the top two inches of SB-10 reported an elevated copper concentration greater than the RRSCO while the 0 to 2 foot composite sample met the copper RRSCO; however, cadmium and copper concentrations were also found in a deeper sample (SB-10(10-12ft)).

Considering both RI and pre-BCP sample histories, metals exceeding RRSCOs in this area are present primarily in the top two inches of soil in this area, consistent with vertical metals distributions elsewhere on the Former L&L Site. One outlier reported a barium concentration in 2014 sample LL-SB5, that was greater than other lower concentrations reported on the Former L&L Site; however, its concentration is within the range of concentrations reported elsewhere on the LSS Site.

- VOCs and PCBs results met RRSCOs in the 2016 RI samples, with only one sample (SB5(0-2in) slightly exceeding the USCO for PCBs.

Northwestern Lead Delineation Area (see **Figure 4A**). Four delineation borings were planned for this area, but ten borings were ultimately installed (SB-11 through SB-20) as work progressed iteratively to field screen lead impacts identified by the 2014 LL-SB1 soil boring location. A parking area, thick vegetation, and steep slopes limited borings to the east of SB-20. At each boring, soil samples were collected from the 0 to 2 inch, 0 to 2 foot, and bottom depth intervals then field-screened for lead using a handheld XRF analyzer.

XRF lead concentrations are summarized in **Table 3B** along with corresponding laboratory lead results. Laboratory samples were collected for lead analysis from the interval exhibiting the highest single XRF reading in SB-11(0-2in), and also from delineation endpoint locations where XRF readings met the XRF threshold delineation goal of 200 ppm. In addition, the SB-12(0-2in) sample was analyzed for full list SVOCs, TAL Metals, and PCBs. As PID readings were 0 ppm in all locations with no indications of VOCs to bias related lab analyses, the three samples representing

20% of total samples were selected for analysis of full list VOCs from the 0 to 2 foot depth intervals from borings SB-16, SB-18, and SB-19.

Due to a chain-of-custody error, the samples from SB-18 (6.5-8.5ft) and both SB-19 samples intended for lead analysis were analyzed instead for PCBs. However, the two shallow SB-18 samples reported lead concentrations less than the RRSCO so the deeper sample was likely to be similar, and the lead concentration in SB-19(0-2 inches) is presumed to exceed the RRSCO based on the elevated XRF result. Results from this area are discussed below along with consideration of previous investigation results.

- RI lead concentrations exceeding the USCO were reported in samples collected from four of ten borings (SB-11, SB-12, SB-16, SB-18). These met the RRSCO except for SB-11(0-2in), which was collected from the LL-SB1 “hotspot.” Based on XRF readings, lead concentrations in the top two inches of SB-15, SB-17, SB-19, and SB-20, and sample SB-17(0-2.5’) are presumed to be greater than the 400 ppm RRSCO. Copper and zinc concentrations were reported greater than their USCOs in sample SB-12(0-2in) and were significantly less than the RRSCOs.

Considering also the pre-BCP sample data for this portion of the Former L&L Site, lead in surface soil (0 to 2 inches) exceeds the RRSCO in the LL-SB1, SB-11, SB-15, SB-17, SB-19, and SB-20 locations, with impacts extending to approximately 2 feet in borings LL-SB1 and SB-17. The area of surficial lead impacts may also extend farther southward based on elevated lead reported in nearby surface samples SS-1, SS-2, and SS-3 (see next section) and a 2014 sampling result of 111 ppm for LL-SB4(0-2ft).

- PCBs results met RRSCOs and only one sample (SB-19(0-2in)), slightly exceeded the USCO for PCBs.
- VOCs and SVOCs met USCOs.

Central Area of Former L&L Site (see **Figure 4A**). As planned, three surface soil samples (SS-01 through SS-03) were collected in unpaved areas north of the soil stockpiles described in the prior sections. Samples were analyzed for full list SVOCs, TAL Metals, and PCBs, and SS-03 also analyzed for full list VOCs. RI results are discussed below along with an evaluation with previous investigation results. RI results are discussed below along with an evaluation relative to investigation results in the vicinity.

- Four metals were reported at concentrations greater than RRSCOs in the three surface soil samples. SS-2 reported notably high concentrations of copper (15,400 ppm and lead 11,700 ppm). Among the three samples, mercury ranged from 1.2 to 1.87 ppm, cadmium ranged from 10.5 to 17.7 ppm.

On the basis of the three recent surface soil samples, elevated metals concentrations remain in the center of the Former L&L Site. Based on delineation activities elsewhere on Former L&L Site, these concentrations are likely to be restricted to the top two feet of soil. The area of surficial lead impacts may extend northward based on lead detected in samples SB-19 and SB-20, and the 2014 sampling result of 111 ppm for LL-SB4(0-2ft).

- RI PAH sample result concentrations exceeded RRSCOs only in the two samples closer to the northeastern area of the Former L&L Site. Similar to those nearby results, seven individual PAH concentrations exceeded USCOs, and five individual PAH concentrations exceeded RRSCOs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene). Individual PAH concentrations were less than 3.2 ppm. The average SVOC concentrations ranged from 0.34 to 1.14 ppm.

Considering also pre-BCP data, PAH impacts exceeding RRSCOs are generally present in the top two inches of soil in this area, and are generally consistent with PAH concentrations across the LSS Site. Addressing lead concentrations in these areas will likely result in removal of most shallow PAH impacts and will thus be the driver for a PAH remedy in this area.

- RI PCB results reported elevated PCBs in SS-2 greater than the RRSCO, and the SS-1 result exceed the USCO but meets the RRSCO. SS-3 did not report PCBs.

The SS-2 location also has elevated lead concentrations that, as noted in the bullet above, is likely to be the driver for the remedy in this area.

- VOCs met USCOs.

2.1.4.2 1011 LSS – Northern Area

Two surface soil samples (SS-4 and SS-5) were collected in unpaved areas in the northern part of 1011 LSS. Samples were analyzed for full list SVOCs, TAL Metals, and PCBs. SS-5 was also analyzed for full list VOCs. PID readings for both samples were 0 ppm. Sample results were below USCOs with the following exceptions:

- RI PAH results were less than USCOs except for one compound in SS-4 (benzo(b)fluoranthene at 1.2 ppm) that slightly exceeded the RRSCO of 1 ppm.

This finding was generally consistent with or lower than other PAH results reported in prior investigations in this area. Considering also pre-BCP samples, PAH impacts exceeding RRSCOs are present in the top few feet of soil in this area, and decrease with depth. The highest PAH concentrations were found in B24(1-3ft) at 325.2 ppm and 1011-SB-4 (1.5-3.5ft) at 299.6 ppm.

- RI metals reported in the SS-5 surface soil sample met USCOs; metals in the SS-4 surface soil sample reported five metals concentrations greater than USCOs, one of which exceeded RRSCO.

Cadmium concentrations reported in the area during prior investigations did not identify USCO exceedances. Slightly elevated levels of arsenic and mercury have been reported in other locations scattered across this area.

- RI results reported PCBs in SS-4 greater than the USCO, but both samples met the RRSCO.
- VOCs met USCOs.

2.1.4.3 1017 LSS - Area Between Building 6 and Office Building

Nine delineation borings were installed through the concrete slab in this area (SB-21 through SB-29) to delineate PCB and lead impacts previously detected in the TP-2 location (**Figure 4B**). At each boring soil samples were collected from approximately the top two feet beneath the concrete slab and from the bottom depth intervals. These were then field-screened for lead using a handheld XRF analyzer.

Elevated lead was identified in two borings north of TP-2 and additional borings were installed until the lead impact area was approximately defined with XRF readings generally less than 200 ppm. Delineation end-point samples from borings SB-23, SB-24, SB-25, and SB-28 were analyzed for total lead to supplement XRF field readings. To meet the 20% criteria for VOC sampling, four samples were selected for VOC analysis, with a bias towards samples with higher XRF lead readings.

Ten samples representing shallow and deep intervals were also collected from six of the nine borings and analyzed for PCB content; selected samples included the four borings closest to TP-2 (SB-21 through SB-24).

RI results are discussed below along with an evaluation with previous investigation results.

- RI lead concentrations met the RRSCO but were greater than the USCO in the SB-24, SB-25, and SB-28 samples, with lead reported below the USCO in the SB-23 sample. XRF lead concentrations with corresponding laboratory lead results are summarized in **Table 3B**, and a chart for Table 3B presents a graphic correlation of these data and shows that an XRF reading of 368 ppm generally correlates to a laboratory result of 400 ppm which is the lead RRSCO.
- Consolidated data indicate a limited area of lead impacts where TP-2 is the highest identified lead concentration exceeding the RRSCO. The area encompasses sample

locations TP-2, SB-22, and SB-27. The area measures approximately 4 feet deep, 25 feet wide, and 25 feet long.

- RI PCB concentrations were greater than the USCO in four shallow samples and one deeper sample, with one of the samples slightly exceeding the RRSCO (SB-25 at 2.7 ppm).

Consolidated data indicate that TP-2 is the highest identified PCB concentration in this area, and concentrations decrease with distance from this location. The area where PCB concentrations are greater than the RRSCO encompasses sample locations TP-1, TP-2, and SB-25, and extends approximately 20 to 25 feet out from TP-2.

- VOCs met USCOs.

Lower South Street BCP Remedial Investigation
Table 2.1.4a SVOCs in Soil Greater than SCOs

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site -2014			Northeastern Former L&L Site-2016									
Investigation Year			2014 Phase II			2016 RI									
Sample Location			LL-SB2	LL-SB6	LL-SB6A	SB-02	SB-03	SB-04	SB-04	SB-05	SB-6	SB-08	SB-09		
Sample ID	Unrestricted Use	Restricted-Residential Use	LL-SB-2(0-2ft)	LL-SB-6(0-2ft)	LL-SB-6A(8-10ft)	LSS-SB-SB02(0-2ft)	LSS-SB-SB03(0-2ft)	LSS-SB-SB04(0-2in)	LSS-SB-SB04(0-2ft)	LSS-SB-SB05(0-2in)	LSS-SB-SB05(0-2ft)	LSS-SB-SB06(0-2in)	LSS-SB-XD01	LSS-SB-SB08(0-2in)	LSS-SB-SB09(0-2ft)
Lab Sample Number			F2341-03	F2341-10	F2341-11	H3951-05	H3951-08	H3951-10	H3951-11	H3951-13	H3951-14	H3951-16	H3951-23	H3972-02	H3972-06
Sampling Date			5/13/2014	5/13/2014	5/13/2014	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/6/2016	7/6/2016	7/6/2016	7/5/2016	7/6/2016	7/6/2016
Benzo(a)anthracene	1	1	13.0 D	12.6 D	1.5	1.1	2.1	1.4	2.5 J	1.5 J	1.3 J	0.83 J	1 J	1 J	6.2
Benzo(a)pyrene	1	1	11.0 D	18.7 D	1.3	1.2	1.9	1.5	2.3 J	1.7 J	1.3 J	1.1 J	0.94 J	0.98 J	4.5
Benzo(b)fluoranthene	1	1	14.8 D	23.3 D	1.5	1.2	2.3	1.8	2.4 J	2.1	1.7	1.4 J	1.1 J	1.3 J	5.7
Benzo(k)fluoranthene	0.8	3.9	4.90 JD	7.60 D	0.66	0.57 J	0.87 J	0.81 J	0.84 J	0.69 J	0.58 J	0.37 J	0.38 J	0.35 J	3.1
Chrysene	1	3.9	12.2 D	10.8 D	1.5	0.86	1.5 J	1.1	1.9 J	1.4 J	0.9 J	0.78 J	0.71 J	0.71 J	5.4
Dibenzo(a,h)anthracene	0.33	0.33	0.93	0.6	0.220 J	0.25 J	0.5 J	0.33 J	3.5 U	1.9 U	1.7 U	1.8 U	1.7 U	1.6 U	0.77 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	6.30 JD	11.6 D	0.63	0.55 J	0.84 J	0.73 J	0.88 J	1.1 J	0.59 J	1 J	0.37 J	0.41 J	1.4

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northwestern	Central Former L&L Site		Northern 1011 LSS			
Investigation Year			2014 Phase II	2016 RI		2014 Phase II		2016 RI	
Sample Location			LL-SB1	SS-01	SS-02	2014 Phase II Investigation		SS-04	
Sample ID	Unrestricted Use	Restricted-Residential Use	LL-SB-1(0-2ft)	LSS-SS-SS01(0-2in)	LSS-SS-SS02(0-2in)	1011-SB-1(8-10ft)	1011-SB-3(4-6.5ft)	1011-SB-4(1.5-3.5ft)	LSS-SS-SS04(0-2in)
Lab Sample Number			F2341-01	H3972-11	H3972-12	F2336-01	F2336-03	F2336-06	H3972-14
Sampling Date			5/13/2014	7/6/2016	7/6/2016	5/14/2014	5/14/2014	5/14/2014	7/6/2016
Benzo(a)anthracene	1	1	2.4	2	2	0.99	3.60 J	16.1	0.84
Benzo(a)pyrene	1	1	2	1.8	2.6	0.85	3.30 J	12.6	0.92
Benzo(b)fluoranthene	1	1	2	2.4	3.2	1.2	4.4 J	14.9	1.2
Benzo(k)fluoranthene	0.8	3.9	0.98	0.99	0.93	0.430 J	1.00 J	6.5	0.48
Chrysene	1	3.9	1.9	1.8	1.5	0.96	3.10 J	12.7	0.81
Dibenzo(a,h)anthracene	0.33	0.33	0.280 J	0.43 J	0.65	0.760 U	4.30 U	1.50 J	0.22 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.87	1	1.6	0.760 U	1.30 J	5.2	0.45

Qualifiers defined in Appendix with Laboratory Summary Tables

Lower South Street BCP Remedial Investigation
Table 2.1.4b Metals in Soil Greater than SCOs

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site												
Investigation Year			2014 Phase II							2016 RI					
Sample Location			LL-SB-2		LL-SB-3	LL-SB-5		LL-SB-6	LL-SB-6A	SB-05			SB-10		
Sample ID	Unrestricted Use	Restricted-Residential Use	LL-SB-2(0-2ft)	LL-SB-2(4-8ft)	LL-SB-3(0-2ft)	LL-SB-5(0-2ft)	LL-SB-5(6-8ft)	LL-SB-6(0-2ft)	LL-SB-6A(8-10ft)	LSS-SB-SB05(0-2in)	LSS-SB-SB05(0-2ft)	LSS-SB-SB05(2-4ft)	LSS-SB-SB10(0-2in)	LSS-SB-SB10(0-2ft)	LSS-SB-SB10(10-12ft)
Lab Sample Number			F2341-03	F2341-04	F2341-05	F2341-08	F2341-09	F2341-10	F2341-11	H3951-13	H3951-14	H3951-15	H3972-08	H3972-09	H3972-10
Sampling Date			5/13/2014	5/13/2014	5/13/2014	5/14/2014	5/14/2014	5/13/2014	5/13/2014	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016
Barium	350	400	112	89.6	157	258	658	176	281	143	121	57.2	131	101	272
Cadmium	2.5	4.3	0.280 U	0.151 J	0.281 J	0.664	0.260 U	1.4	0.280 U	5.58	0.626	0.59	3.75	2.24	7.41
Chromium	30	180	15.1	20.6	33.1	41	46.3	35.2	20.9	48.6	18 J-	9.55	18.4 N	13.5 N	27.7 N
Copper	50	270	NA	NA	NA	NA	NA	NA	NA	4570	120 J-	30.9	2400	50.7	561
Lead	63	400	141	287	118	216	0.460 J	304	63.6	2220 N	105 J	64.9 N	368	91.7	115
Mercury	0.18	0.81	0.101	0.103	0.064	0.206	0.0060 J	0.183	0.434	0.339	0.081 J-	0.023	0.149	0.086	0.161
Nickel	30	310	NA	NA	NA	NA	NA	NA	NA	281 N	72.9 J	18 N	32.9	31.8	47.5
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA	853	119	72.7	360	130	654

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northwestern Former L&L Site										
Investigation Year			2014 Phase II		2016 RI								
Sample Location					LL-SB-1		SB-11	SB-12			SB-16		
Sample ID	Unrestricted Use	Restricted- Residential Use	LL-SB-1(0-2ft)	LL-SB-1(4-8ft)	LSS-SB-SB11(0-2in)	LSS-SB-SB12(0-2in)	LSS-SB-XD02	LSS-SB-SB12(0-2ft)	LSS-SB-SB16(0-2in)	LSS-SB-SB16(0-2ft)	LSS-SB-SB16(4-6ft)	LSS-SB-SB18(0-2in)	LSS-SB-SB18(0-2ft)
Lab Sample Number			F2341-01	F2341-02	H3995-01	H3995-02	H3995-05	H3995-03	H3995-06	H3995-07	H3995-08	H3995-09	H3995-10
Sampling Date			5/13/2014	5/13/2014	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016
Chromium	30	180	21.3 J-	37	NA	16.7	NA	NA	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	NA	56.7	NA	NA	NA	NA	NA	NA	NA
Lead	63	400	879	0.649	801	134	149	84.4	367	346	104	222	183
Mercury	0.18	0.81	0.207	0.0090 J	NA	0.167	NA	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	NA	153	NA	NA	NA	NA	NA	NA	NA

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Central Former L&L Site								
Investigation Year			2014 Phase II						2016 RI		
Sample Location			LL-SB-4		LL-SB-7	LL-SB-8	LL-SB-9		SS-01	SS-02	SS-03
Sample ID	Unrestricted Use	Restricted- Residential Use	LL-SB-4(0-2)	LL-SB-4(4-6.8)	LL-SB-7(0-2)	LL-SB-8(0-2)	LL-SB-9(0-2)	LL-SB-9(4-8)	LSS-SS-SS01(0-	LSS-SS-SS02(0-2in)	LSS-SS-SS03(0-
Lab Sample Number			F2341-06	F2341-07	F2341-12	F2341-13	F2341-15	F2341-16	H3972-11	H3972-12	H3972-13
Sampling Date			5/14/2014	5/14/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	7/6/2016	7/6/2016	7/6/2016
Barium	350	400	144	380	162	162	192	140	243	154	356
Cadmium	2.5	4.3	1.22	0.270 U	0.260 U	0.270 U	0.382	0.270 U	17.7	11	10.5
Chromium	30	180	26.7	36	39.9	20.9	19.1	18.1	42.9 N	33.8 N	50.2 N
Copper	50	270	NA	NA	NA	NA	NA	NA	1590	15400	956
Lead	63	400	111	0.686	51.4	73.1	81.5	70.4	1220	11700	2600
Mercury	0.18	0.81	0.056	0.0050 J	0.038	0.076	0.047	0.041	1.2 D	1.87 D	1.51 D
Nickel	30	310	NA	NA	NA	NA	NA	NA	161	44.6	72.4
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	1270	1600	636

Lower South Street BCP Remedial Investigation
Table 2.1.4b Metals in Soil Greater than SCO

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Southern End of 1011 LSS			Northern End of 1011 LSS					
Investigation Year			2014 Phase II			2014 Phase II					2016 RI
Sample Location			1011-SB-5		1011-SB-6	1011-SB-1	1011-SB-2	1011-SB-3	1011-SB-4		SS-04
Sample ID	Unrestricted Use	Restricted-Residential Use	1011-SB-5(1.5-3.4ft)	1011-SB-DUP	1011-SB-6(4-6.2ft)	1011-SB-1(8-10ft)	1011-SB-2(4-8ft)	1011-SB-3(4-6.5ft)	1011-SB-4(1.5-3.5ft)	1011-SB-DUP	LSS-SS-SS04(0-2in)
Lab Sample Number			F2336-07	F2336-10	F2336-08	F2336-01	F2336-02	F2336-03	F2336-06	F2336-10	H3972-14
Sampling Date			5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	7/6/2016
Barium			574	680	529	206	91.7	267	229	680	104
Cadmium	2.5	4.3	0.262 U	0.270 U	0.278 U	0.286 U	0.328 U	0.423	2.47	0.270 U	6.48 J-
Chromium	30	180	36.6	38.8	33.4	27.7	30.7	31.4	21.7	38.8	28.3 J
Copper	50	270	NA	NA	NA	NA	NA	NA	NA	NA	164 J-
Lead	63	400	2.53	1.58	33.9	96.9	44	170	261	1.58	339
Mercury	0.18	0.81	0.017	0.015	0.083	0.101	0.083	0.068	0.272	0.015	0.395
Zinc	109	10,000	NA	NA	NA	NA	NA	NA	NA	NA	364

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		1017 LSS - Between Office Building and Building #6			
Investigation Year			2016 RI			
Sample Location			SB-24	SB-25		SB-28
Sample ID	Unrestricted Use	Restricted-Residential Use	LSS-SB-SB24(0.5-2.5ft)	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-XD03	LSS-SB-SB28(0.5-2.5ft)
Lab Sample Number			H3995-21	H3995-23	H3995-24	H3995-25
Sampling Date			7/8/2016	7/8/2016	7/8/2016	7/8/2016
Lead			64.6	195	191	87.2

Qualifiers defined in Appendix with Laboratory Summary Tables

Lower South Street BCP Remedial Investigation
Table 2.1.4c PCBs in Soil Greater than SCOs

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site	Northwestern Former L&L Site	Former L&L Site - North of Soil Stockpiles		Northern 1011 LSS	1017 LSS - Between Office Building and Building #6					
Sample Location			SB-05	SB-19	SS-01	SS-02	SS-04	SB-22		SB-23	SB-24	SB-25	
Sample ID			LSS-SB-SB05(0-2in)	LSS-SB-SB19(0-2in)	LSS-SS-SS01(0-2in)	LSS-SS-SS02(0-2in)	LSS-SS-SS04(0-2in)	LSS-SB-SB22(1-3ft)	LSS-SB-SB22(10-15ft)	LSS-SB-SB23(0.5-2.5ft)	LSS-SB-SB24(0.5-2.5ft)	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-XD03
Lab Sample Number			H3951-13	H3995-12	H3972-11	H3972-12	H3972-14	H3995-18	H3995-17	H3995-19	H3995-21	H3995-23	H3995-24
Sampling Date	Unrestricted Use	Restricted- Residential Use	7/6/2016	7/7/2016	7/6/2016	7/6/2016	7/6/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016
Aroclor-1016	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1221	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1232	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1242	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.62 D	0.230	1.4 J	2.1 J
Aroclor-1248	0.1	1	0.0197 U	0.0195 U	0.0231 U	8 D	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1254	0.1	1	0.18 J+	0.12	0.35 J+	0.021 U	0.69 D	0.12 P	0.0613 J	0.13 J	0.0818 J	0.34 J	0.62 D
Aroclor-1262	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1268	0.1	1	0.0197 U	0.0195 U	0.0231 U	0.021 U	0.019 U	0.0247 U	0.0202 U	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Aroclor-1260	0.1	1	0.15 J+	0.15	0.59 J+	0.021 U	0.019 U	0.0247 U	0.0561 J	0.0184 U	0.0177 U	0.0189 U	0.0191 U
Total PCBs	0.1	1	0.33	0.27	0.94	8	0.69	0.12	0.1174	0.75	0.31	1.7	2.7

Qualifiers defined in Appendix with Laboratory Summary Tables

2.2 Groundwater Quality Investigation

2.2.1 Groundwater Sampling

Perched groundwater has been occasionally detected in prior investigations, and was encountered in one boring (SB-22) installed during this RI. To sample this media, the SB-22 borehole was extended five additional feet and then converted into a temporary groundwater sampling point (TGSP) by inserting 1-inch diameter, 0.010-inch slotted PVC screen and solid PVC riser into the open bore hole to the bottom of the boring. The TGSP was installed to 20 feet bgs with the screen interval intersecting the water table. A groundwater sample was collected from the TGSP with dedicated, disposable, polyethylene tubing, and a peristaltic pump on the same day the TGSP was installed. Using a peristaltic pump, the TGSP was pumped for approximately 10 minutes to reduce sample turbidity.

Groundwater was pumped directly into laboratory-supplied bottles, and the sample bottles were immediately placed on ice as a preservative. Given the temporary design of the TGSP and the silty composition of site soils, the resulting samples were visually turbid. The water sample was analyzed for parameters specified in the FSP, and both preserved and unpreserved samples were collected to allow analysis of both total and filtered/dissolved metals samples to avoid erroneous identification of elevated sample results that are typical from turbid samples.¹

The TGSP was removed after sample collection, and the boring was backfilled with bentonite chips.

2.2.2 Groundwater Sampling Results

The groundwater from SB-22 was analyzed for full list VOCs, full list SVOCs, TAL Metals (total and dissolved), and PCBs. The analytical results are summarized and compared to 6 NYCRR Part 703.5 groundwater quality standards (GWQSs) in **Tables 5 through 8**.

- VOCs, SVOCs, and PCBs met GWQSs and were generally non-detect.
- While total concentrations for several metals exceeded their respective groundwater standards, the dissolved concentrations were significantly lower than total concentrations and were less than GWQSs, with two exceptions (sodium and manganese). The significantly lower dissolved concentrations suggest the metals were dissolved from and thus naturally-occurring in the particulate matter in the turbid samples and are not a site contaminant. While the dissolved sodium and manganese concentrations exceeded their GWQSs, elevated sodium concentrations in groundwater in this region of the country are often associated with runoff from winter road salt

¹ Erroneously elevated metals results commonly occur as a result of the preservative used for total metals analysis metabolizing turbidity particles in the samples and releasing naturally occurring metals contained in the particles.

applications and are not considered a site contaminant. Manganese may be associated with fill material that included brick (manganese is sometimes used a brick colorant), or the observed coal-like material. Manganese may also be a gasoline additive; however, the groundwater sample did not indicate gasoline contamination. Based on the reported concentrations and since the LSS Site is connected to municipal water, manganese is not considered a site contaminant.

Perched groundwater was found above the bedrock surface during two previous investigations at a total of four locations, and at only one location during the 2016 RI. Consistent with prior sampling, total metals concentrations were influenced by sample turbidity and met GWQSs for dissolved metals, except for the generally consistent presence of manganese noted above (prior analytical results did not include sodium). SVOCs exceeded GWQSs in two sample locations (TP-3 and TP-8, 2013 W&C report), with MTBE also exceeded the GWQS in TP-8.

2.3 Soil Vapor Quality Investigation

2.3.1 Soil Vapor Sampling

Sub-slab vapor and soil vapor sampling were conducted on July 11, 2016, and sample locations are shown on **Figure 4**. One subslab vapor sample was collected beneath each of the existing buildings (SV-1 through SV-4) and soil vapor samples were collected from 1013 LSS (SV-5 and SV-6) and from the Former L&L Site (SV-7 and SV-8). Based on conditions on the sampling date, an outdoor reference air sample was collected from upwind of the other sampling locations near the northeastern corner of the LSS Site, to assess ambient air quality at the time of the vapor sampling. Each sample was collected over an eight-hour timeframe and analyzed for VOCs via EPA Method TO-15.

2.3.2 Soil Vapor Sampling Results

The analytical results for the vapor samples are summarized in **Table 9**, with comparison to outdoor ambient air results and NYSDOH SVI action levels for the seven published chlorinated VOCs of concern. As a conservative point of reference and considering likely future site uses, both subslab and soil vapor results are compared to the SVI mitigation guidance values for subslab samples. Several acetone concentrations were reported and qualified by the laboratory as a laboratory artifact; therefore, it is not considered a site contaminant or discussed further.

Samples from the 1013 LSS (soil SV-6) and 1017 LSS Office (subslab SV-2) each reported two chlorinated VOC concentrations greater than the subslab vapor guidance levels. At 1013 LSS, tetrachloroethene (PCE) and its degradation product trichloroethene (TCE) were reported above their respective guidance levels. At the 1017 LSS Office location, TCE and its degradation product vinyl chloride were reported slightly greater than their guidance levels and PCE was also reported but less than the guidance level. The 1013 LSS results are consistent with prior investigation

results (W&C 2013) for soil gas samples collected from 1013 LSS that also identified low level chlorinated solvents. Tectonic's investigation on 1077 LSS reported concentrations greater than guidance levels in two of the eight soil vapor samples for vinyl chloride, and one of these samples reported an elevated cis-1,2-dichloroethene concentrations.

No related soil or groundwater VOC contamination has been reported during this RI or prior investigations for this portion of the LSS Site so the source of these soil vapors is likely diffuse.

Remaining results identified select VOCs at mostly trace concentrations including but not limited to compounds associated with solvents, petroleum products, gasoline additives, and refrigerants. Although there are no NYSDOH standards for most of these compounds, available National Institute for Occupational Safety and Health (NIOSH) permissible exposure limits (PELs) are listed as a point of reference, and reported results are significantly lower than the PELs. In addition, no related soil or groundwater VOC contamination has been reported during this RI or prior investigations as contaminants of concern for the LSS Site.

Background VOC concentrations represented by the outdoor air sample did not indicate that soil vapor or subslab vapor sample results were influenced by the ambient air.

As a point of reference in consideration of potential future site uses, NYSDOH soil vapor intrusion guidance recommends mitigation for ambient indoor air TCE and PCE concentrations greater than 2.0 $\mu\text{g}/\text{m}^3$ and 30 $\mu\text{g}/\text{m}^3$, respectively.

Table 2.3.2 below provides a summary of VOCs that exceeded the SVI guidance levels or were reported at an elevated concentration. **Appendix B** provides all of the analytical results.

Table 2.4.2a Precision Calculations for SVOCs in Soil (ppm)

Building #/LSS Address	Building 6	Office	Building 4	Building 3	1013 LSS	1013 LSS	Former L&L Site		Select NIOSH permissible exposure limits (PELs)								
	1017 LSS	1017 LSS	1011 LSS	1013 LSS			1005 LSS	1009 LSS									
Sample Location ID	SV-01	SV-02	SV-03	SV-04	SV-05	SV-06	SV-07	SV-08									
Sample Type	Subslab Vapor	Subslab Vapor	Subslab Vapor	Subslab Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor									
Sample ID	LSS-SV-SV01	LSS-SV-SV02	LSS-SV-SV03	LSS-SV-SV04	LSS-SV-SV05	LSS-SV-SV06	LSS-SV-SV07	LSS-SV-SV08									
Lab Sample Number	H4043-01	H4043-02	H4043-03	H4043-04	H4043-05	H4043-06	H4043-07	H4043-08									
Sampling Date	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016									
Matrix	Air	Air	Air	Air	Air	Air	Air	Air									
Units	µg/m ³				µg/m ³					µg/m ³							
NYSDOH SVI Matrices Compounds																	
Tetrachloroethene ^(M2)	4.07		35.9		0.2	U	6.78		5.9		130	D	3.39	J	0.2	UJ	
Trichloroethene ^(M1)	1.18		6.99		0.32		1.13		2.74		36.5		0.16	UJ	0.16	UJ	
Vinyl Chloride ^(M1)	0.08	U	7.92		0.15		0.2		0.08	U	1.84		0.08	U	0.08	U	
Additional TO-15 VOCs																	
2,2,4-Trimethylpentane	2.38		22.4		19.6		24.3		23.4		2.34	U	383	J	887	J	
2-Butanone	37.2		22.4		41.9	D	43.9		59.9	D	109	D	34.2	J	25.4	J	590,000
Benzene	2.46		12.5		2.04		8.63		21.1		18.5		113	J	220	J	
Carbon Disulfide	10.6		1.74		2.09		4.36		103	D	119	D	16.8		12.5		
Cyclohexane	5.51		11.7		9.64		4.82		8.95		35.8		50.3	D	123	D	1,050,000
Dichlorodifluoromethane	1.68	J	5933	D	1.83	J	6.43		11.4		2.03	J	2.03	J	0.79	J	4,950,000
Ethyl Benzene	2.48		2.39	J	6.52		4		6.95		13.0		37.4		89.9	D	435,000
Heptane	2.58		46.3		6.97		11.1		10.2		32.8		85.6	J	186	J	2,000,000
Hexane	16.2		15.5		21.2		18.3		15.5		20.8		164	J	387	J	1,800,000
m/p-Xylene	9.12		6.52	J	23.0		12.6		19.1		32.1		92.5		242	D	435,000
Methyl tert-Butyl Ether	1.8	U	468	D	1.8	U	1.8	U	0.43	J	1.8	U	1.3	J	1.8	U	
Methylene Chloride	23.6		3.06		59.4	D	8.69		5.21		9.73		1.74	U	1.74	U	
o-Xylene	3.3		2.35	J	8.25		3.95		6.95		12.2		28.7		71.2	D	435,000
Tetrahydrofuran	92.3	D	111	D	35.4		67.2	D	162	D	50.4	D	126	J	79	J	590,000
Toluene	36.9		33.9		78.8	D	52.8		64.8	D	92.3	D	452	J	1017	J	750,000
Trichlorofluoromethane	146	D	0.62	J	11.2		730	D	59.6		147	D	17.4	J	2.36	J	5,600,000
NOTES:																	
^(M1) NYSDOH SVI Guidance Matrix 1. Subslab vapor guidance levels: <5 NFA																	
^(M2) NYSDOH SVI Guidance Matrix 2. Subslab vapor guidance levels: <100 NFA																	

method and field blanks, contract required detection limits (CRDL) standards for inductively coupled plasma (ICP), lab duplicate samples, ICP interference check and ICP serial dilutions.

Based on their review, DVS provided the following conclusions relative to the data groups evaluated:

- Data qualifiers were added or modified to several results to indicate estimated concentrations or estimated reporting limits. Summary data tables reflect the revised data qualifiers.
- Data are considered technically defensible and usable, with the few exceptions noted.
- There were apparent matrix effects that primarily affected VOC processing and resulted in results being qualified as estimated. Other VOC soil sample analyses across the LSS Site did not report VOCs; therefore, this qualifier is not considered a reflection of unreported VOCs.
- Sample holding times were met, with the exception of the VOC analysis for LL-SB-9(4-8), which where the sample analysis was conducted one day beyond the hold time. The non-detect results for this sample have been qualified as estimated. Other VOC soil sample analyses across the LSS Site did not report VOCs; therefore, this qualifier is not considered a reflection of unreported VOCs.

2.4.2 Precision

In addition to the Data Usability Summary Report summarized above, the data precision was evaluated by calculating the relative percent difference (RPD) between primary samples and duplicate samples using the following equation:

$$\%RPD = \frac{D_1 - D_2}{\left(\frac{D_1 + D_2}{2} \right)} \times 100\%$$

where,

RPD Relative Percent Difference

D₁ First Sample Value

D₂ Second Sample Value (duplicate)

The RPD data are used to evaluate the long term precision of the analytical/measurement methods. RPD calculations cannot be performed on concentrations that were not detected above the laboratory reporting limit. As a result of numerous “non-detect” and estimated results, RPD calculations were only performed for some of the SVOC and metals results.

Soil data are considered precise if the duplicate values are within 35% of the primary sample values. Table 2.4.2 provides the RPD calculations for SVOCs and metals in soil. The variations in the concentrations are likely due to contaminant concentration variability within the section of the core being sampled. The primary sample is collected from the soil exhibiting the greatest impacts, along with samples for field screening (via PID or XRF); then the duplicate sample is collected from the remaining soil or nearby soil. This can result in increased RPDs. With one exception, RPDs are significantly less than 35%. The 105.1% RPD for fluoranthene is considered to be due to the very low concentrations reported, and since this is not a contaminant of concern for the LSS Site, is not considered suggestive of low precision results.

Table 2.4.2a Precision Calculations for SVOCs in Soil (ppm)

Sample ID	LSS-SB-SB06(0-2ft)	LSS-SB-XD01	Average	RPD
Fluoranthene	0.56	1.8	1.2	105.1
Sample ID	LSS-SB-SB12(0-2in)	LSS-SB-XD02	Average	RPD
Dimethylphthalate	0.62	0.6	0.61	3.3

Table 2.4.2b Precision Calculations for Metals in Soil (ppm)

Sample ID	LSS-SB-SB12(0-2in)	LSS-SB-XD02	Average	RPD
Lead	134	149	141.5	10.6
Sample ID	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-XD03	Average	RPD
Lead	195	191	193	2.1

2.4.3 Accuracy

Data accuracy was evaluated by assessing potential sources of error include physical sampling process, decontamination procedures, sample preservation and handling, homogeneity of the sample matrix, and sample preparation and analysis techniques used by the laboratory. An evaluation of potential sources of error follows. The analytical results for the Quality Control samples are summarized in **Tables 10 and 11**, with field duplicate results provided on the soils results **Tables 1 through 4** immediately following the primary sample results.

Equipment Blanks: Four equipment blanks were collected during this RI. The equipment blanks samples did not contain VOCs, SVOCs, or PCBs. Estimated calcium concentrations in three equipment blanks, and several estimated metals concentrations in two equipment blanks were generally at estimated concentrations and were less than the quantitation limits. Exceptions are aluminum and iron in one equipment blank. None of the samples collected that day were analyzed for metals, and these metals are not associated with contaminants at the LSS Site. As such, these concentrations are not considered sample contamination and are not considered to

indicate an adverse impact to data accuracy. The data indicate that decontamination procedures were sufficient to prevent cross contamination between samples.

Trip Blanks: Trip blanks accompanied samples to assess the potential for contamination during sample shipment. The three trip blanks did not report VOCs and the data indicate that samples were not contaminated during the shipment process.

Field Duplicates/Replicates: A comparison of primary samples to duplicates is provided in the precision discussion in Section 2.4.2.

2.4.3 Representativeness

Representativeness is a qualitative parameter associated with design of the sampling plan. The NYSDEC-approved Work Plan was designed to supplement prior investigations and provide adequate data to sufficiently represent site soil, groundwater, and soil vapor characteristics. This RI provided delineation and additional data to supplement, confirm and expand upon data presented in Tectonic's 2011 extensive sampling program of the Former L&L Site and 1011 LSS, that was followed by Chazen's 2014 Phase II Investigation report with ASP B data deliverables, and also Woodard & Curran's 2013 Site Investigation of 1013 LSS and 1017 LSS including ASP B data and associated data validation. The existing data set is considered to be sufficient to complete this remedial investigation. While the southern boundary of lead impacts in northeastern corner and central area of the Former L&L Site were not completely defined by the sampling, a soil removal action anticipated in these areas will allow confirmed final lead concentrations. Sampling to-date has consistently shown that elevated lead is primarily in the top two inches to top two feet of soil.

2.4.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which two data sets can be compared to one another. Primary and duplicate samples were compared in Section 2.4.2. Comparison of the field data to analytical data in this section compares field screening readings (i.e., PID, and XRF) to laboratory analytical results. PID readings were consistently 0 ppm, and no VOCs were reported in soil samples; this demonstrates consistency between VOC field readings and laboratory results. A comparison of XRF field screenings to laboratory results is presented in Section 2.1.3, and XRF lead concentrations are summarized in **Table 3B**. A chart for Table 3B presents a graphic correlation of these data and shows that an XRF reading of 368 ppm generally correlates to a laboratory result of 400 ppm (the lead RRSCO). While the XRF readings are biased slightly low relative to laboratory results, where field screening was used to identify a lead delineation limit, the lead concentrations were well below 368 ppm (generally less than 200 ppm). As such, the RI data are considered comparable.

3.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSEMENT

3.1 Human Health Exposure Assessment

3.1.1 Contaminant Source

3.1.1.1 Soil

The contaminant source of metals, PAHs and PCBs at the LSS Site appears to be from historic automotive salvage activities and fill material. Fill ranges from 1 foot to at least 15 feet thick across much of the site, and mostly consists of brick, concrete, wood, rock, and asphalt; some fill material also includes coal/ash/slag, glass, plastic and metal. Soil stockpiles remain on the Former L&L Site from previous excavation of impacted soil; the stockpiled soil have previously been confirmed to be non-hazardous. Specific contaminants are addressed below:

- Metals (primarily lead, with some cadmium, copper, mercury and/or arsenic) concentrations greater than RRSCOs have been identified at: the Former L&L Site in the top two inches in one location in the northeastern corner and in the northwestern corner and in the central area; sporadic locations at the northern area of 1011 LSS; in the western end of 1013 LSS (primarily lead); and west of Building 6 and in a limited area between the office building and Building 6 on 1017 LSS. These areas are expected to be addressed by a removal or cover action. Woodard & Curran's 2013 report evaluated concentrations of barium reported in 26 locations across the LSS Site between 2002 and 2012, and determined that the average barium concentrations were less than the RRSCO on 1011 LSS and 1017 LSS, and slightly exceeded the RRSCO at the western end of 1013 LSS where other metals would drive a remedy decision. The 35 consolidated barium results for the 2014 Phase II and the RI are consistent with prior sampling results with an average barium concentration of 234 ppm, which is less than the USCO. As such, barium is not considered a site contaminant.
- PAH impacts exceeding RRSCOs are present in the top two feet of soil across the LSS Site. Total SVOC concentrations in 52 surface and shallow soil samples across the LSS Site (seven from the 2012 Woodard & Curran report, 9 from the 2014 Phase II Investigation, and 36 from the RI) were generally consistent across this urban property and are less than 100 ppm, with three exceptions that had a maximum concentration of 403.57 ppm (LL-SB-6(0-2ft)). There is no identified source associated with the three outliers and site PAHs are considered to be associated with the urban area and fill material present across the LSS Site. Addressing elevated metals by removal or use of cover actions will address the areas with PAH RRSCO exceedances.
- PCBs. Out of 99 samples collected at the LSS Site since 2011, elevated PCBs were identified in two areas: one location being near the center of the Former L&L Site (SS-2), and the

second location surrounding TP-2 and SB-25 on 1017 LSS. These two areas are expected to be addressed by soil removal. Of the 96 remaining samples across the LSS Site, all but six met the USCO, and the highest of the seven exceedances was 2.5 ppm (B25(2-4ft)). There is no identified source for these occasional PCB detections.

3.1.1.2 Groundwater

Groundwater is not considered a media with SCG exceedances or a related Area of Concern. This is due to the lack of overburden groundwater at the LSS Site, infrequent encounters of perched water in fill material above bedrock, and very limited exceedances of SCGs associated with: sodium that is likely due to runoff from nearby winter road salt applications and manganese that may be associated with fill material that is prevalent across the LSS Site.

3.1.1.3 Soil Vapor

While VOCs have not been identified as a soil or groundwater contaminant at the LSS Site, 6 out of 18 soil vapor samples collected since 2011 reported chlorinated VOC concentrations greater than the subslab vapor action levels. PCE and/or degradation products TCE, cis-1,2-dichloroethylene, vinyl chloride were reported in some of these samples along with compounds associated with petroleum and automotive fluids. As a precaution, it is anticipated that the remedy will include installation of passive vapor barrier systems under retained or proposed new occupied structures, with options for active subsurface depressurization systems (SSDS) based on post-construction indoor air quality samplings in buildings.

3.1.2 Contaminant Release and Transport Mechanism

The SVOC, metals and PCB contamination identified at the site could be released or migrate in the following ways:

- Release of dust into air – If and when soil is disturbed, it can release dust into the air. Impacted soil found on the site has generally remained in the top two inches to two feet and has not exhibited vertical migration. The site is also mostly paved and the soil stockpile has been covered with tarps to minimize wind disturbance to soil; therefore, current potential off-site migration of surface soil via dust is minimized.
- Migration of contaminants to groundwater – Limited perched water has been encountered at the LSS Site, with limited impacts greater than their GWQSSs. Two samples from 2012 reported PAHs in perched groundwater and one of these samples reported MTBE. This RI and the previous groundwater samples both reported dissolved metals that met GWQSSs with the exception of sodium thought to be from road salting and manganese likely from the fill material prevalent across the LSS Site. While rain water percolating through soil can allow for migration of contaminants to groundwater, the limited perched water identified at the LSS Site suggests the extensive existing site pavement and

generally clayey soils limit contaminant migration into deeper groundwater. Properties around the site receive potable water from a municipal water system.

- Migration of subslab/soil vapors into buildings – The potential for volatilization of VOCs into site buildings is expected to be mitigated by installation of a passive subslab vapor barrier with an optional SSDS design in place for use based on post-construction interior IAQ sampling in buildings to be constructed or used at the open area of 1013 LSS, the northern end of 1011 LSS, or the area of the existing office building on 1017 LSS. The source of VOCs in the subsurface is unknown but the proposed mitigation will manage potential human exposure.

3.1.3 Potential Exposure Points

Buildings: As the site is currently vacant, locked, and fenced, there is no current human health exposure pathway to soil or soil/subslab vapor contaminants under current site use conditions. There is no evidence of off-site runoff from the limited unpaved areas of the site. Finally, VOC concentrations at the 1017 LSS Office (sample SV-2) are just slightly greater than the NYSDOH action levels.

During redevelopment of the LSS Site, excavation in areas of impacted soil, soil vapor, or perched groundwater would present the potential for exposure to construction site workers. Specific measures to manage construction employee exposures will be developed.

Future Use: The potential for the volatilization intrusion of VOCs into is expected to be mitigated by installation of vapor barrier and SSDS option in building(s) to be constructed or used at the open area of 1013 LSS, the northern end of 1011 LSS, or the area of the existing office building on 1017 LSS. The vapor barrier and SSDS would mitigate the potential for building occupant exposure to vapors by blocking, and actively venting if necessary, vapors from beneath the building floor and discharging vapors above the building roof to the atmosphere. Select excavation of soils containing compounds exceeding RRSCOs are proposed, combined with soil cover.

3.1.4 Routes of Exposure

People are not coming into contact with contaminated soil because the site areas are paved or access to impacted surface soil is restricted.

The site and nearby properties are connected to municipal water; therefore, impacted perched water is not being used for drinking water and there are no related routes of exposure. People could come into contact with impacted perched water if they perform ground intrusive work at the site. The limited perched water at the LSS Site does not appear to be a primary mechanism for migration off the site, so no related off-site exposures are expected.

The office building at 1017 LSS is not used. There are not currently buildings present in the open area of 1013 LSS, or the northern end of 1011 LSS. The LSS Site remedy is expected to include an SSDS for buildings in these areas to prevent indoor air quality from being affected by soil/subslab vapor VOCs.

3.1.5 Receptor Population

Potential receptors include site workers performing ground intrusive work in site areas where soil and soil/subslab vapor impacts are present. There are no current building occupants to present a potential receptor population. No off-site receptors have been identified.

3.2 Water Well Survey

As the LSS Site and surrounding properties lie within a community receiving water from a municipal water supply system, no potable water well survey was included in the Work Plan. The City of Peekskill's water source is Hollow Brook, which is fed by two reservoirs, all of which are located up gradient of the LSS.

4.0 FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS (FWRIA)

The LSS Site does not provide habitats for listed species. A Fish and Wildlife Resources Impact Analysis is not needed for this project given the LSS Site and urban area usage, and the lack of evidence of site contamination having migrated off of the LSS Site to surface water and/or ecologically sensitive areas.

5.0 REMEDIAL INVESTIGATION SUMMARY

This section presents a summary of SCG exceedances with descriptions of the areas of concern, potential exposure pathways, conclusions, and recommendations for future work.

5.1 Summary of SCG Exceedances and Areas of Concern

This section presents a summary of SCG exceedances with descriptions of the areas of concern, potential exposure pathways, conclusions, and recommendations for future work.

5.1.1 Soil

Elevated metals and PCBs were identified on the LSS Site.

1. In the northeastern corner of the Former L&L Site, one 0 to 2 inch sample, SB-5, reported elevated lead, cadmium and copper concentrations (**Figure 4A**). These metals concentrations were not reported in other nearby samples; therefore, the area of concern

is estimated to be 20 feet in diameter and one to two feet deep and is expected to removal soil from LL-SB6 where total SVOCs were 403.57 ppm.

2. The northwestern corner of the Former L&L Site has an area of surface soil lead impacts in the LL-SB1, SB-11, SB-15, SB-17, SB-19, and SB-20 locations, and extended to approximately 2 feet at borings LL-SB1 and SB-17 (**Figure 4A**). Elevated lead concentrations range from approximately 400 ppm to 879 ppm. The area of surficial lead impacts is estimated to be 35 feet by 55 feet in area, and less than six inches deep.
3. The central area of the Former L&L Site identified elevated lead concentrations (1,220 to 11,700 ppm), along with one elevated PCB sample and several other elevated metals (copper, cadmium, and mercury) in the top two inches of soil (**Figure 4A**). The area of impacts is estimated to have a 130-foot radius and be two to three feet deep, based on the reported concentrations and other observations across the Former L&L Site. This area includes SB-10 that also reported elevated copper. While the deeper SB-10 sample also reported copper and cadmium exceedances in the bottom of the boring at 10 to 12 feet, the concentrations at this depth do not represent a direct exposure concern.
4. Sporadic occurrences of arsenic, mercury, or cadmium were identified in soil samples in northern end of 1011 LSS and west of Building 6 on 1017 LSS (arsenic only). These concentrations were inconsistent and may be associated with fill material. These areas may be addressed as part of site redevelopment by a removal or cover action.
5. An area of lead with mercury impacts was identified on the western end of 1013 LSS at GB-37(6 to 7 feet) and SS2 (SITES test pit), and the impacted area appears to have been defined by multiple prior sampling events (**Figure 4**). This area is estimated to be approximate 70 feet 30 feet, with depths ranging from 3 feet to 8 feet.
6. An area of lead and PCB impacts was identified between the office and Building 6 on 1017 LSS (**Figure 4B**). The concentrations are highest at TP-2 and extend outward to include SB-22 and SB-27 (lead) and to TP-1, SB-23, and SB-25 (PCBs). This lead area of concern is approximately 4 feet deep, 25 feet wide, and 25 feet long. While the area where PCB concentrations are greater than the RRSCO extends approximately 20 to 25 feet out from TP-2, the three delineating samples results just slightly exceed the SCO and range from 1.09 to 2.7 ppm.
7. PAH impacts exceeding RRSCOs are present in 52 samples from the top two feet of soil across the LSS Site, were generally consistent across this urban property, and are less than 100 ppm, with three exceptions that had a maximum total SVOC concentration of 403.57 ppm. There was no identified source associated with the three outliers so the PAH presence is considered to be associated with the urban area within Peekskill, and with the site-wide fill material.

8. Woodard & Curran's 2013 report evaluated 26 barium concentrations reported across the LSS Site between 2002 and 2012, and determined that the average barium concentrations were less than the RRSCO on 1011 LSS and 1017 LSS, and slightly exceeded the RRSCO at the western end of 1013 LSS where other metals would drive a remedy decision. The 27 barium results for the 2014 Phase II and the RI are consistent with prior sampling results with an average barium concentration of 234 ppm. As such, barium is not considered a site contaminant and there is no associated area of concern.

5.1.2 Soil Vapor

Although VOCs have not been identified as a soil or groundwater contaminant at the LSS Site, occasional soil/subslab vapor samples reported chlorinated VOCs and some other VOCs typically associated with petroleum products. The Areas of Concern include outside the building on 1013 LSS, the northern end of 1011 LSS, and the area of the existing office building on 1017 LSS.

5.2 Potential Exposure Pathway and Conceptual Site Model

The Conceptual Site Model takes into consideration sources of contamination, fate and transport processes, potential receptors, exposure pathways, and exposure points. Impacted media associated with the LSS Site include soil, VOCs detected in soil vapor, and limited perched water.

Chazen's conceptual site model views the LSS Site as an early residential area which transitioned to a mixed use commercial/industrial district. Initially thin soils were leveled with historic fill consisting primarily of coal ash and other mixed debris which appear to have contained limited PAHs and barium. Additional PAH impacts originate from past automotive salvage activities on the Former L&L Site. A former spill on 1013 LSS (located south of the Former L&L Site and north of the office building on 1017 LSS) also contributed metals impacts and some PCBs. Solid waste management activities on the LSS Site have left impacts consisting primarily of metals and SVOCs residues, along with two areas of PCBs. Extensive soil boring and test pit investigations have been performed on the LSS Site and perched groundwater has only been encountered near Building 3 on 1013 LSS and between the office and Building 6 on 1017 LSS. Perennial groundwater presumably resides in the underlying nominally-fractured bedrock; the top of the bedrock is most frequently encountered within 10 feet of grade with unsaturated overburden. The direction of groundwater flow in the bedrock is expected to be west-northwest towards the Hudson River.

The Conceptual Site Model table below provides a summary of the contamination sources, migration pathways and potential receptors based on existing data gathered in the field and from laboratory analysis. No off-site receptors have been identified. Figures 4, 4A and 4B show the distribution of prior and RI site-wide sampling results that exceeded RRSCOs, that are also described in Section 2.

Table 5.2 Conceptual Site Model Table

Media	Known or Suspected source of contamination	Type of Contaminant (General)	Contaminants of Potential Concern (COPCs)	Primary or Secondary Source Release Mechanism	Migration Pathways	Potential Receptors
Soil	Fill Material and Vehicle Salvage	Fill material and automotive products	PAHs, metals, PCBs	Release of dust into the air	Airborne	Human: direct contact from intrusive activities in impacted area
Perched Water	Limited perched water encountered on LSS Site	Fill material and automotive products	PAHs, MtBE, manganese	Volatilization; Infiltration/Percolation and saturation of soil	Migration into soil vapor; Perched water flow/utility trenches	Human and ecological receptors are not expected to be exposed
Sub-Slab and Soil Vapor	Soil/subslab vapor VOC-impacts under Office at 1017 LSS, in open area of 1013 LSS, and northern end of 1011 LSS from fill material and vehicle salvage	Fill material and automotive products	VOCs	Volatilization of impacted soil vapor or subslab vapor	Direct contact during excavation; Migration into buildings partitioning to air	Human: direct contact from intrusive activities in impacted areas
Indoor Air					Migration into buildings partitioning to air	Occupants of the office
Surface Water/Sediment	No surface water on LSS Site	NA	NA	NA	NA	Human or Ecological Receptors are not expected to be exposed
Building	No continuing sources of contamination identified	NA	NA	Site operations have ceased	NA	NA

5.3 Conclusions

The RI investigated potential sources of contamination associated with the former site uses as an auto salvage, junkyard, waste processing, and transfer station for construction and demolition (C&D) waste. The following conclusions indicate that the remedial investigation objectives were met:

- Impacts to soil have been delineated on the Former L&L Site (metals and PAHs) and between the office and Building 6 on 1017 LSS (lead and PCBs), and at the western end of 1013 LSS (metals). This RI sampling identified another area of surface soil metals impacts in the center of the Former L&L Site that will be addressed. Impacts at the Former L&L Site

are from historic auto salvage and junkyard activities, which are also thought to be the source of metals at the western end of 1013 LSS. The source of impacts at the 1017 LSS is unknown but appears to be a limited area.

- Some collected soil/subslab vapor samples reported chlorinated VOCs and some other VOCs typically associated with petroleum products, although VOCs have not been identified as a soil or groundwater contaminant at the LSS Site. The Areas of Concern include outside the building on 1013 LSS, the northern end of 1011 LSS, and the area of the existing office building on 1017 LSS. As a precaution, it is anticipated that the remedy will include installation of vapor barriers and the option for an active SSDS in new site buildings to be constructed or used outside the building on 1013 LSS, the northern end of 1011 LSS, or the area of the existing office building on 1017 LSS.
- Surface soil sampling at the northern end of 1011 LSS confirmed the sporadic presence of metals. These concentrations were inconsistent and may be associated with fill material. Site redevelopment may include soil removal or soil cover installed as an engineering control.

The RI assessed the existing environmental site conditions; confirmed the nature and extent of PCBs, PAHs and most metal impacts to soil; and documented the lack of VOCs in soil and groundwater, although some VOCs were reported in soil/subslab vapor. The results of this RI will be used to evaluate remedy options related to future site redevelopment.

5.4 Recommendation for Future Work

No further remedial investigation is recommended for the site or adjoining properties as remedial investigation objectives have been met and data have not identified further potential contaminant sources on the site.

The Site is currently unoccupied, but the goal is to redevelop the property. An Alternatives Analysis will be prepared and will include an alternative to implement engineering controls during redevelopment of the Site to remediate or mitigate affected media at the Site in accordance with a Site Management Plan (SMP). Expected engineering controls could include:

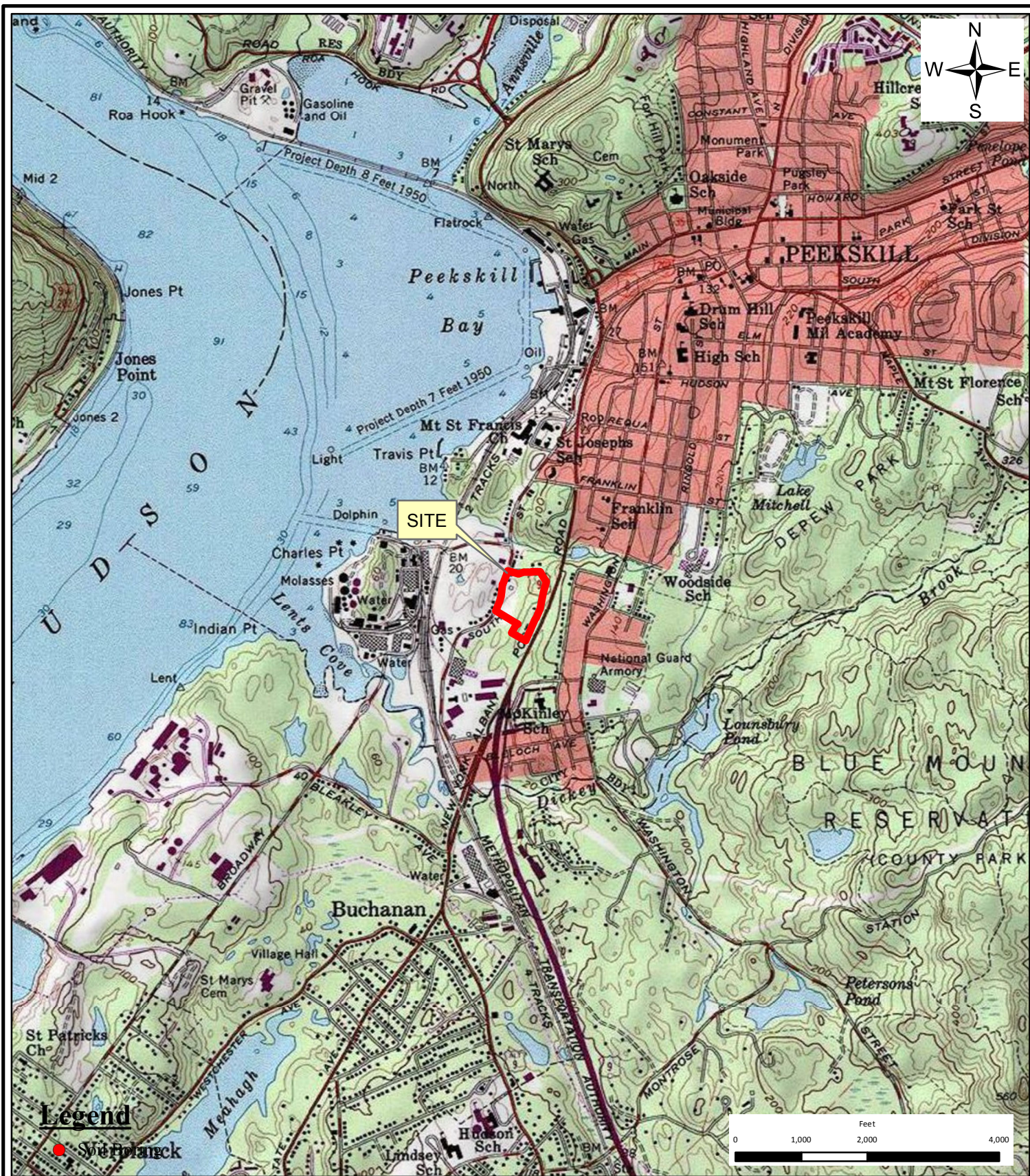
- Removal and disposal of soil stockpiles from the Former L&L Site. Additional stockpile sampling is anticipated to confirm disposal options and/or the potential for material reuse on the LSS Site should soil meet RRUSCOs. This will be conducted as a supplement to this RI.
- Excavation of impacted surface and shallow soil during Site redevelopment and managing these soils in accordance with an Excavation Plan that will be outlined in a SMP. Soil removal actions are anticipated in northern and central parts of the Former L&L Site

(metals), at the western end of 1013 LSS (metals), and between the office and Building 6 on 1017 LSS (lead and PCBs) and limited areas with elevated PAHs.

- Removal or covering of remaining shallow surface soils to meet RRUSCOs for the Site.
- Installing a passive vapor barrier with an option for an active sub-slab depressurization system (SSDS) within areas of where buildings will be constructed or used outside the building on 1013 LSS, the northern end of 1011 LSS, or the area of the existing office building on 1017 LSS. This design will depend on proposed future site development and the use of the active SSDS would be based on post-construction indoor air sampling.

Figures

- Figure 1: Site Location
- Figure 2: Orthophotograph
- Figure 3: Tax Map
- Figure 4: Sample Locations and Results Exceeding Restricted-Residential SCOs at LSS BCP Site
- Figure 4a: Sampling Results Exceeding Restricted-Residential SCOs at Northwest Corner of Former L&L Site
- Figure 4B: Sampling Results Exceeding Restricted-Residential SCOs at 1017 LSS
- Figure 5: Bedrock Contour Map
- Figure 6: Stratigraphic Cross-Section



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Lower South Street Redevelopment Area

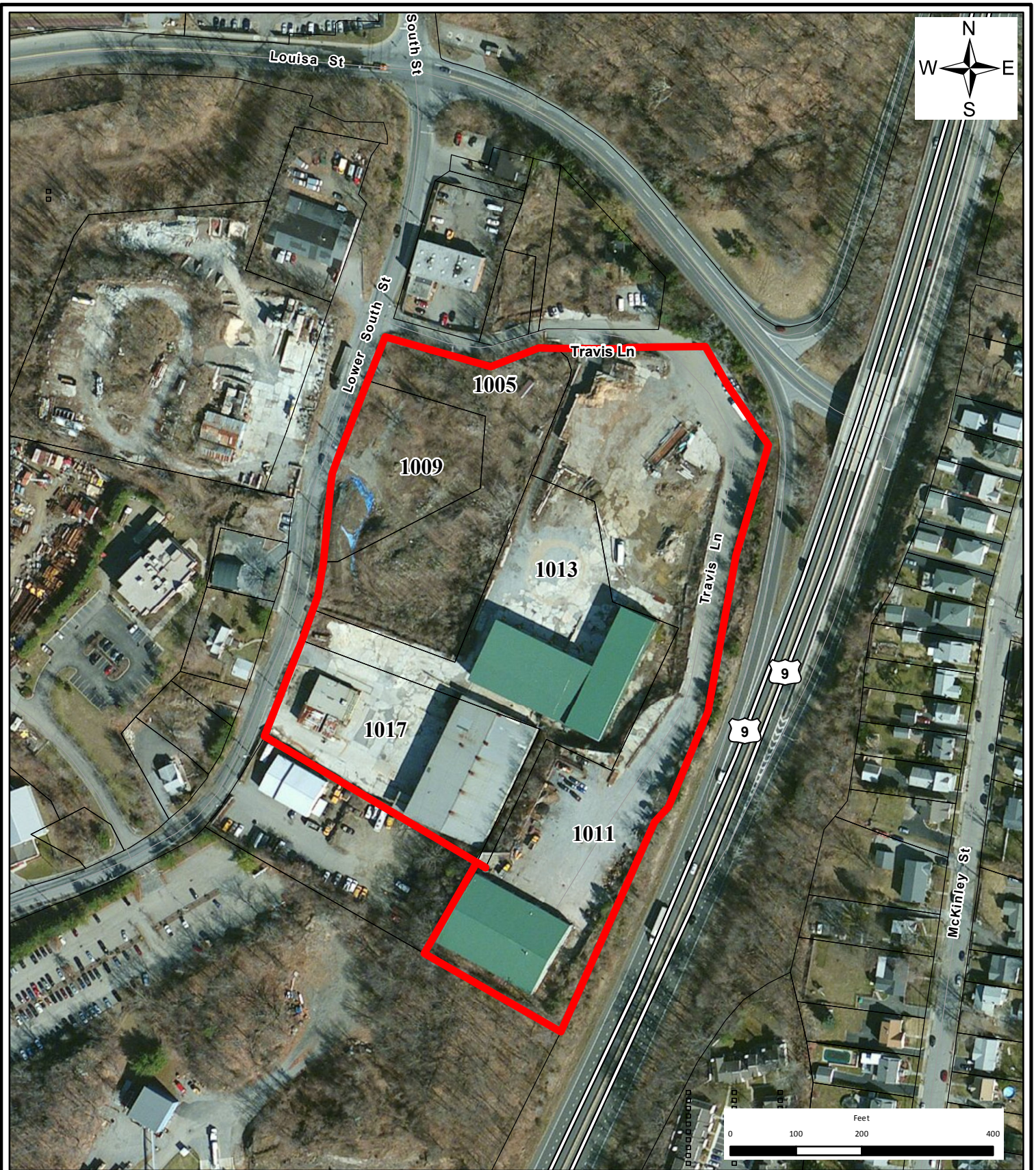
Figure 1: Site Location Map

1005, 1009, 1011, 1013 and 1017 Lower South Street

City of Peekskill, Westchester County, New York

Sources: City of Peekskill 2007 Parcels Dataset; USGS Topographic Map of the Peekskill, NY
Quadrangle Dated 1957, Revised 1981

Drawn:	STF
Date:	January 2015
Scale:	1 inch equals 2,000 feet
Project:	81323.07
Figure:	1



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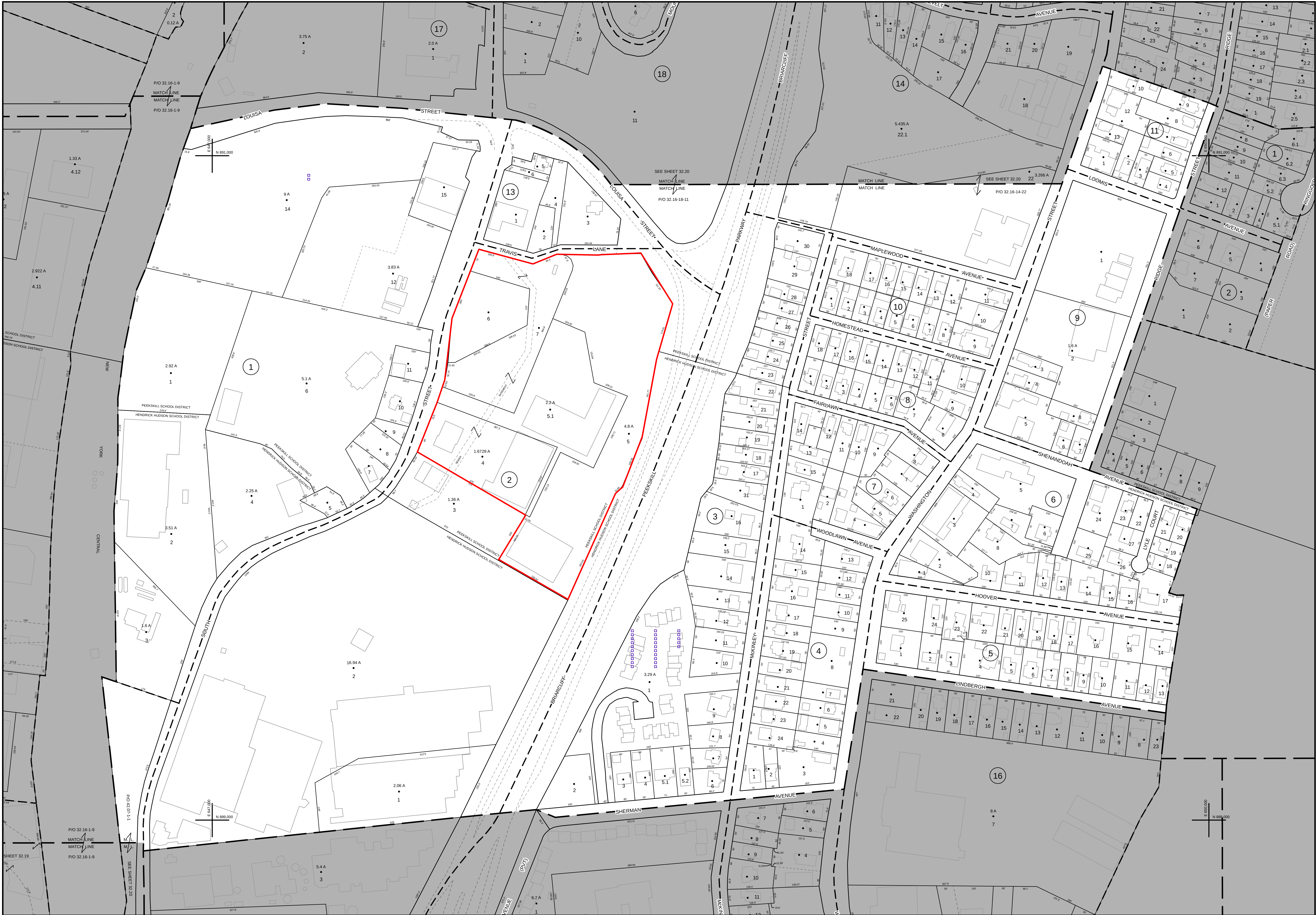
Lower South Street Redevelopment Area

Figure 2: Site Orthophoto

1005, 1009, 1011, 1013 and 1017 Lower South Street

City of Peekskill, Westchester County, New York
Sources: NYS Department of Transportation 2008 Roads Dataset;
City of Peekskill 2007 Parcels Dataset; i-cubed 2011 orthophoto data imagery

Drawn:	STF
Date:	January 2015
Scale:	1 inch equals 200 feet
Project:	81323.07
Figure:	1



CITY OF PEEKSKILL

NOTE: THIS MAP IS COMPILED FOR TAX ASSESSMENT PURPOSES ONLY.

Map Updated By:
MRB GROUP
ENGINEERING, ARCHITECTURE, SURVEYING, P.C.
PRICEL DATA COMPILED IN 1987 BY:
STONE & WEBSTER ENGINEERING CORPORATION
NEW YORK, N.Y.
PLANIMETRIC DATA COMPILED IN 1987 BY:
SECO CORPORATION
OAK RIDGE, N.J.

GRAPHIC SCALE
0 100
1" = 100'

COORDINATES BASED ON:
NEW YORK STATE PLANE COORDINATE SYSTEM
EAST ZONE N.A.D. 83

REVISION TABLE	
DATE	MADE BY

REVISIONS	

SPECIAL DISTRICTS

HENDRICK HUDSON SCHOOL DISTRICT
PEEKSKILL SCHOOL DISTRICT

PROPERTY LINE

ROAD

RAILROAD

RIGHT-OF-WAY

CITY LINE

COUNTY LINE

SHEET OUTLINE

BLOCK LIMIT LINE

MATCH LINE

SPECIAL DISTRICT LINE

WATER OUTLINE

ORIGINAL LOT LINE

COMMON OWNER

TICS

TAX MAP PARCEL NUMBER

COORD. LOCATOR POSITION

SUBLOT NUMBER

LEGEND

BLOCK NUMBER

CALCULATED ACREAGE

DEED ACREAGE

SCALED DIMENSION

DEED DIMENSION

32.15	32.16	33.13
32.19	32.17	33.17
42.07	42.08	43.05

SHEET INDEX

TAX MAP

CITY OF PEEKSKILL

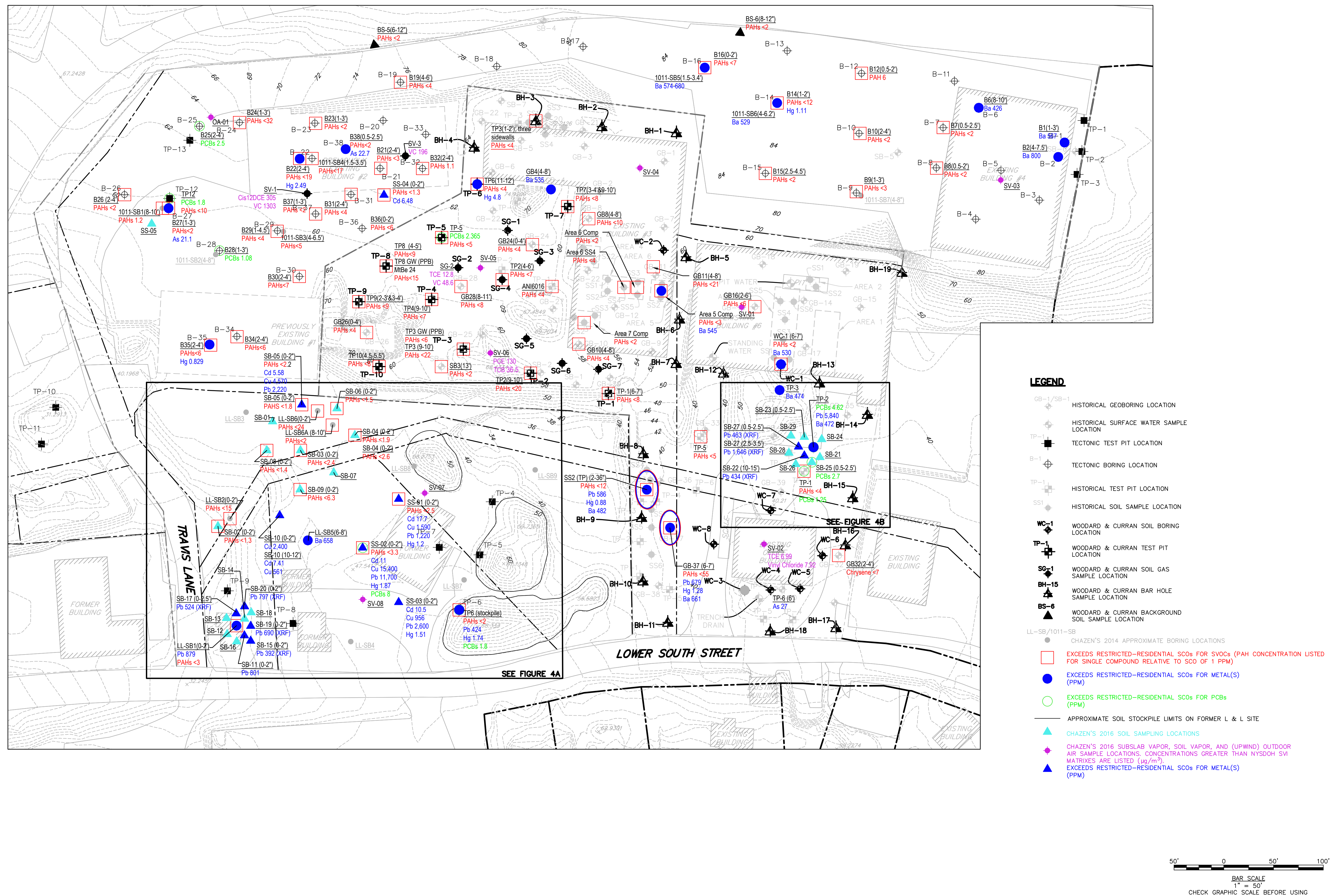
WESTCHESTER COUNTY,

NEW YORK

MAP DATE MAY 1, 2014

32.20

FIGURE 3



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[illegible]

LOWER SOUTH STREET REDEVELOPMENT AREA

SAMPLING RESULTS

EXCEEDING RESTRICTED-RESIDENTIAL SCOs

1005, 1009, 1011, 1013 AND 1017 LOWER SOUTH STREET
CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

designed CJB	checked ALS
date 4/21/16	scale 1"=50'
project no. 81323.07	
sheet no.	

TP-1  TECTONIC TEST PIT LOCATION

☐ EXCEEDS RESTRICTED-RESIDENTIAL
SCOs FOR SVOCs (PAH CONCENTRATION
LISTED FOR SINGLE COMPOUND
RELATIVE TO SCO OF 1 PPM)

● EXCEEDS RESTRICTED-RESIDENTIAL
SCOs FOR METAL(S) (PPM)

○ EXCEEDS RESTRICTED—RESIDENTIAL
SC0s FOR PCBs (PPM)

APPROXIMATE SOIL STOCKPILE LIMITS
ON FORMER L & L SITE

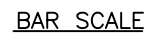
CHAZEN'S 2016 SOIL SAMPLING LOCATIONS

CHAZEN'S 2016 SUBSLAB VAPOR, SOIL VAPOR, AND (UPWIND) OUTDOOR AIR SAMPLE LOCATIONS. CONCENTRATIONS GREATER THAN NYSDOH SVI MATRIXES ARE LISTED ($\mu\text{g}/\text{m}^3$).

▲ EXCEEDS RESTRICTED-RESIDENTIAL SCOs
FOR METAL(S) (PPM)

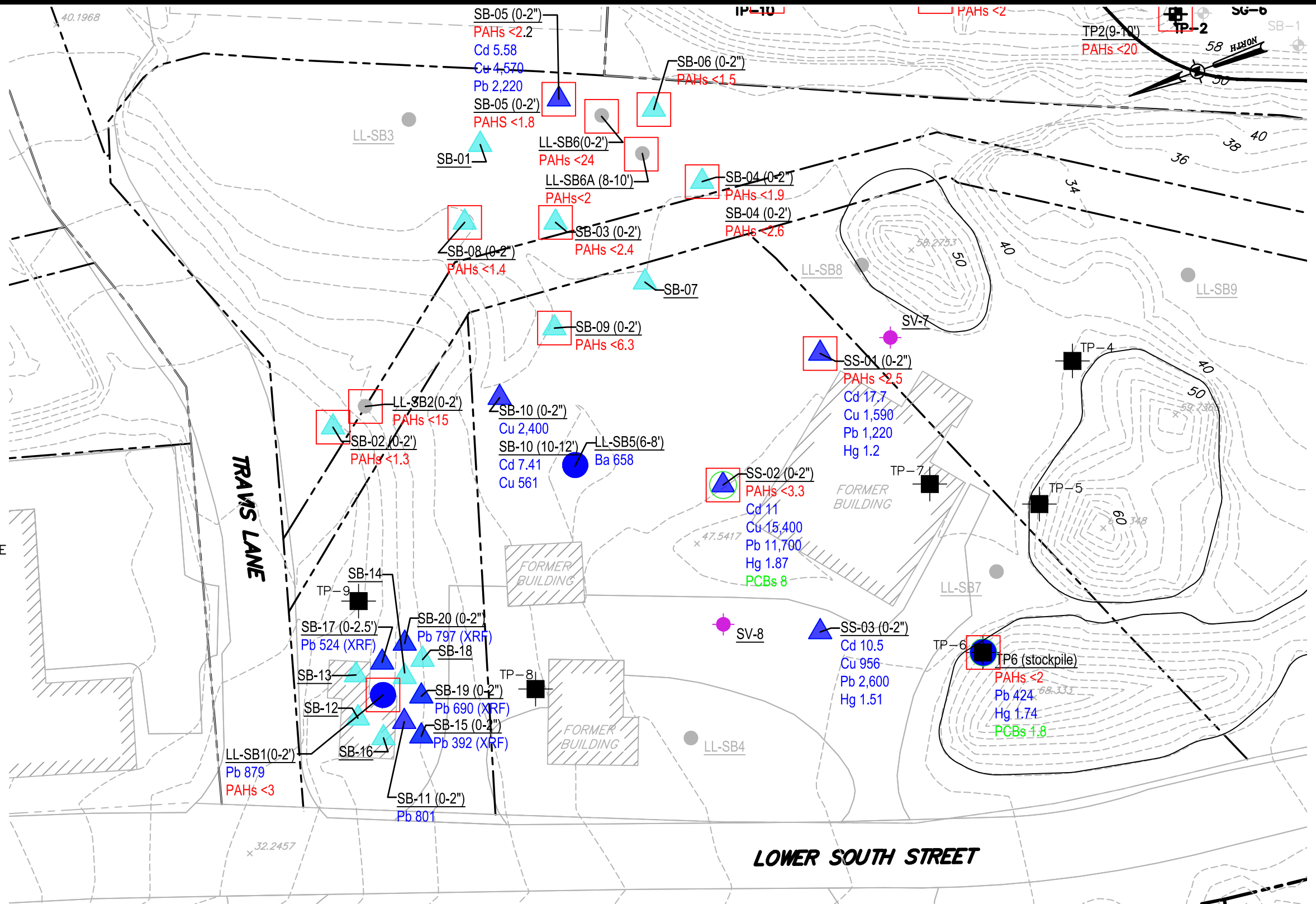
NOTE:

1. XRF RESULTS GREATER THAN 368 PPM LEAD ARE SHOWN WHERE HYPOTHETICAL LAB RESULTS ARE PROJECTED TO EXCEED THE RESTRICTED-RESIDENTIAL SCO (400 PPM).



1" = 40'

CHECK GRAPHIC SCALE BEFORE USING



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LOWER SOUTH STREET REDEVELOPMENT AREA

SAMPLING RESULTS EXCEEDING RESTRICTED-RESIDENTIAL SCOs NORTHERN AREA OF FORMER L&L SITE

CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

designed JMP	checked
date 9/23/16	scale 1"=40'
project no. 81323.07	
sheet no.	

FIG 4A

Drawing Name: Z:\projects\81300-81399\81323-07 Peekskill Karta Environmental Consultation\DWG\FIG4A_4B_81323-07_213949_Figures4.dwg Date Printed: Nov 01, 2016, 10:22am

LEGEND

- GB-1/SB-1 HISTORICAL GEOBORING LOCATION
- TP-1 HISTORICAL TEST PIT LOCATION
- WC-1 WOODARD & CURRAN SOIL BORING LOCATION
- BH-15 WOODARD & CURRAN BAR HOLE SAMPLE LOCATION
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs FOR SVOCs (PAH CONCENTRATION LISTED FOR SINGLE COMPOUND RELATIVE TO SCO OF 1 PPM)
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs FOR METAL(S) (PPM)
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs FOR PCBs (PPM)
- CHAZEN'S 2016 SOIL-SAMPLING LOCATIONS
- EXCEEDS RESTRICTED-RESIDENTIAL SCOs FOR METAL(S) (PPM)

NOTE:

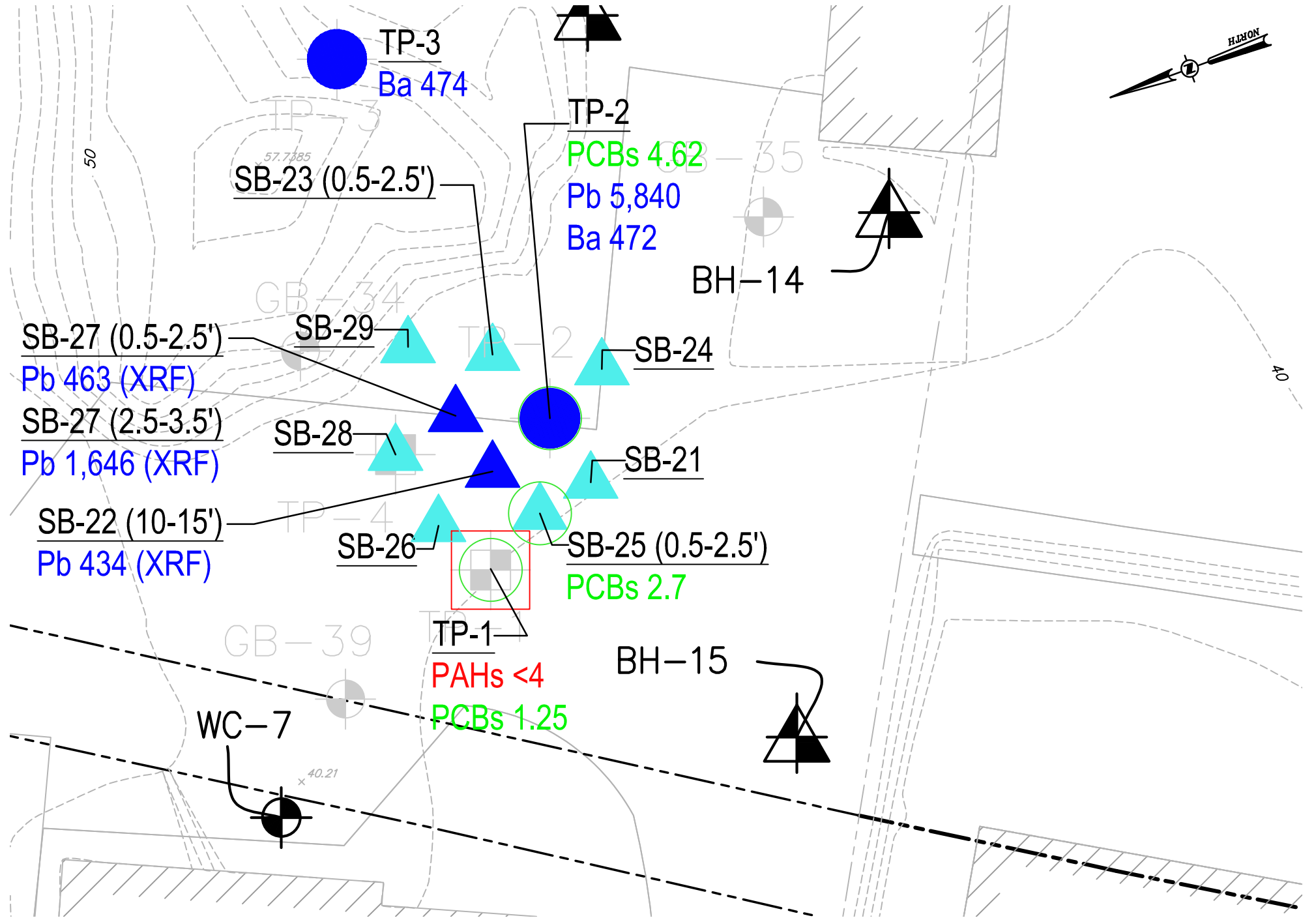
1. XRF RESULTS GREATER THAN 368 PPM LEAD ARE SHOWN WHERE LAB RESULTS ARE PROJECTED TO EXCEED THE RESTRICTED-RESIDENTIAL SCO (400 PPM).



BAR SCALE

1" = 20'

CHECK GRAPHIC SCALE BEFORE USING



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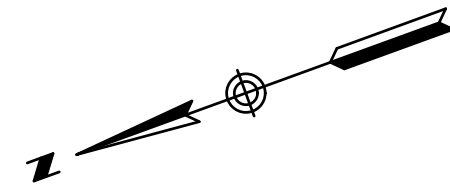
Tennessee Office:
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LOWER SOUTH STREET REDEVELOPMENT AREA

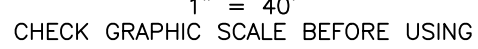
SAMPLING RESULTS EXCEEDING
RESTRICTED-RESIDENTIAL SCOs
AT 1017 LSS

CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

designed JMP	checked
date 9/23/16	scale 1"=20'
project no. 81323.07	
sheet no. FIG 4B	



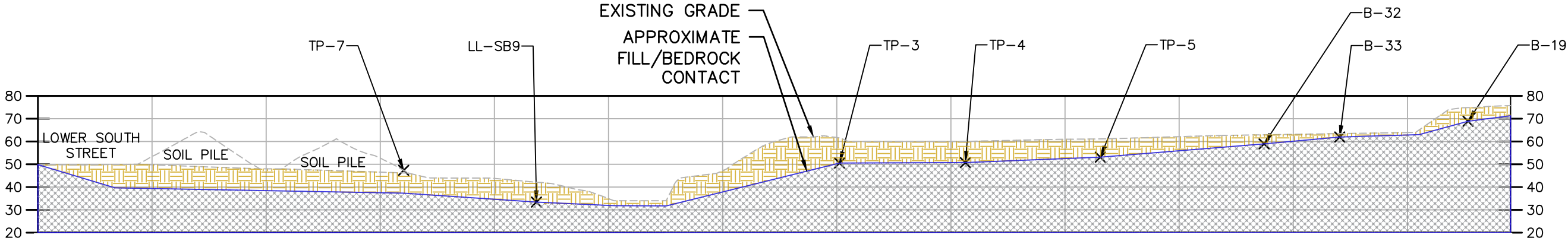
- NOTES:
1. BEDROCK CONTOUR ARE APPROXIMATE AND WERE DRAWN BASED ON REFUSAL AND/OR MAXIMUM DEPTHS REPORTED ON BORING AND TEST PIT LOGS FROM THIS RI AND PREVIOUS INVESTIGATIONS.
 2. EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.



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date 4/21/16	scale 1"=40'
project no. 81323.07	
sheet no.	



Drawing Name: Z:\projects\81300-81399\81323-07 Peekskill Karta Environmental Consultation\DWG\FIG5-6_81323-07_213949_BEDROCK.dwg Date Printed: Jan 25, 2017, 6:02pm



1
FIG6

CROSS SECTION PROFILE

SCALE: SCALE-H: 1"=50'
SCALE-V: 1"=50'

LEGEND:

FILL
BEDROCK

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LOWER SOUTH STREET REDEVELOPMENT AREA

STRATIGRAPHIC CROSS-SECTION

CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

designed SK/WGO	checked ASR/WGO
date 01/25/17	scale AS SHOWN
project no. 81323.07	
sheet no. 6	

Appendix A: Boring Logs

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-01				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/05/16 Finish Date: 07/05/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 9 ft. Borehole Dia.: 2.5 in. Water Depth: >9 ft. Rock Depth: 9 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0		22			FILL	mostly f-c gravel, variable rounding, some brown sand and silt, few quartz-like fragments, trace brick and coal-like material, dry, NOSOI		Hole backfilled with bentonite chips
2											
3											
4											
5											
6											
7											
8											
9											
10											
11		2	0.0		26			11" s.a.a			
12											
13											
14											
15								12" broken concrete, sand, and silt, NOSOI			
16								ROCK	3" decomposed granite, NOSOI, dry		
17								Refusal encountered at 9 feet bgs. End of boring.			
18											
19											
20											
21											
22											
23											
24											

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				Type:	Casing	Sample	Core
				Diam.:		2"	
				Weight:			
				Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-02		
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen				Start Date: 07/05/16 Finish Date: 07/05/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 13 ft. Borehole Dia.: 2.5 in. Water Depth: >13 ft. Rock Depth: 13 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0		42			FILL		
2										
3										
4										
5		2	0.0		48					
6										
7										
8										
9		3	0.0		38			CLAY, sandy		
10										
11										
12										
13								ROCK		
14		Refusal encountered at 13 feet bgs. End of boring.								
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:																							
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				<table border="1"> <tr> <td></td> <td>Casing</td> <td>Sample</td> <td>Core</td> </tr> <tr> <td>Type:</td> <td></td> <td>Macrocore</td> <td></td> </tr> <tr> <td>Diam.:</td> <td></td> <td>2"</td> <td></td> </tr> <tr> <td>Weight:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fall:</td> <td></td> <td></td> <td></td> </tr> </table>					Casing	Sample	Core	Type:		Macrocore		Diam.:		2"		Weight:				Fall:			
					Casing	Sample	Core																				
				Type:		Macrocore																					
				Diam.:		2"																					
Weight:																											
Fall:																											

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-03					
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/05/16 Finish Date: 07/05/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.				
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:	
1		1	0.0		28			FILL	mostly f-c angular gravel, some sand, grey to brown, NOSOI, dry, loose 11" s.a.a		Hole backfilled with bentonite chips	
2												
3												
4												
5		2	0.0		10							
6												
7												
8												
9								Refusal encountered at 7 feet bgs. End of boring.				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
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METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.									DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Casing	Sample	Core
									Type:		Macrocore	
									Diam.:		2"	
									Weight:			
									Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-04					
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/05/16 Finish Date: 07/05/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 3.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 3.5 ft. Rock Depth: ~ 3.5 ft. Well Depth: na ft.					
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1		1	0.0		36			FILL	mostly f-c gravel, some silt, sand, and broken rock, brown to light grey, dry, NOSOI		Hole backfilled with bentonite chips		
2													
3													
4								Refusal at 3.5 feet bgs. End of boring.					
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Type:	Casing	Sample	Core
										Diam.:		2"	
										Weight:			
										Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-05					
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/06/16 Finish Date: 07/06/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4 ft. Borehole Dia.: 2.5 in. Water Depth: > 4 ft. Rock Depth: ~ 4 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:	
1								FILL	mostly silty sand, some f-c gravel, broken rock, trace decomposed asphalt, brown, dry, loose, NOSOI		Hole backfilled with bentonite chips	
2		1	0.0		36							
3												
4												
5								Refusal at 4 feet bgs. End of boring.				
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.									DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface									Type:	Casing	Sample	Core
									Diam.:		2"	
									Weight:			
									Fall:			

 21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026							PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-06			
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen							Start Date: 07/06/16 Finish Date: 07/06/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 9 ft. Borehole Dia.: 2.5 in. Water Depth: >9 ft. Rock Depth: ~9 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:			
1		1	0.0		34			FILL	mostly f-c gravel and broken rock, some brown silt, few sand, dry, NOSOI		Hole backfilled with bentonite chips			
2														
3														
4														
5		2	0.0		16							brown silt, gravel, plastic sheeting, decomposed wood, 2" piece of red plastic, moist, NOSOI		
6														
7														
8														
9		Refusal encountered at 9 feet bgs. End of boring.												
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Type:	Casing	Sample	Core
										Diam.:		2"	
										Weight:			
										Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-07						
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/05/16 Finish Date: 07/05/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.				
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1		1	0.0		44			FILL	mostly f-c gravel, crystalline and angular, some silt and sand, brown to grey, NOSOI, dry, loose		Hole backfilled with bentonite chips		
2													
3													
4													
5		2	0.0		14				14" s.a.a				
6													
7													
8													
9								Refusal encountered at 7 feet bgs. End of boring.					
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
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ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Type:	Casing	Sample	Core
										Diam.:		2"	
										Weight:			
										Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-08														
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen				Start Date: 07/06/16 Finish Date: 07/06/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 9.9 ft. Borehole Dia.: 2.5 in. Water Depth: > 9.9 ft. Rock Depth: ~ 9.9 ft. Well Depth: na ft.														
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:												
1		1	0.0		34			FILL mostly f-c angular gravel and broken rock, some silt and sand, brown to light brown, dry, loose, NOSOI void space 11" s.a.a		1st attempt, refusal at 2 feet bgs Hole backfilled with bentonite chips												
2											2	0.0		22								
3																	2	0.0		22		
4																						
5		2	0.0		22																	
6											2	0.0		22								
7																	2	0.0		22		
8																						
9		2	0.0		22																	
10											2	0.0		22								
11								2	0.0								22					
12																				2	0.0	
13		2	0.0		22																	
14											2	0.0		22								
15								2	0.0								22					
16																				2	0.0	
17		2	0.0		22																	
18											2	0.0		22								
19								2	0.0								22					
20																				2	0.0	
21		2	0.0		22																	
22											2	0.0		22								
23								2	0.0								22					
24																				2	0.0	
25		2	0.0		22																	
26											2	0.0		22								
27								2	0.0								22					
28																				2	0.0	
29		2	0.0		22																	
30											2	0.0		22								
31								2	0.0								22					
32																				2	0.0	
33		2	0.0		22																	
34											2	0.0		22								
35								2	0.0								22					
36																				2	0.0	
37		2	0.0		22																	
38											2	0.0		22								
39								2	0.0								22					
40																				2	0.0	
41		2	0.0		22																	
42											2	0.0		22								
43								2	0.0								22					
44																				2	0.0	
45		2	0.0		22																	
46											2	0.0		22								
47								2	0.0								22					
48																				2	0.0	
49		2	0.0		22																	
50											2	0.0		22								
51								2	0.0								22					
52																				2	0.0	
53		2	0.0		22																	
54											2	0.0		22								
55								2	0.0								22					
56																				2	0.0	
57		2	0.0		22																	
58											2	0.0		22								
59								2	0.0								22					
60																				2	0.0	
61		2	0.0		22																	
62											2	0.0		22								
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64																				2	0.0	
65		2	0.0		22																	
66											2	0.0		22								
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69		2	0.0		22																	
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73		2	0.0		22																	
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83								2	0.0								22					
84																				2	0.0	
85		2	0.0		22																	
86											2	0.0		22								
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89		2	0.0		22																	
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92																				2	0.0	
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95								2	0.0								22					
96																				2	0.0	
97		2	0.0		22																	
98											2	0.0		22								
99								2	0.0								22					
100																				2	0.0	
101		2	0.0		22																	
102											2	0.0		22								
103								2	0.0								22					
104																				2	0.0	
105		2	0.0		22																	
106											2	0.0		22								
107								2	0.0								22					
108																				2	0.0	
109		2	0.0		22																	
110											2	0.0		22								
111								2	0.0								22					
112																				2	0.0	
113		2	0.0		22																	
114											2	0.0		22								
115								2	0.0								22					
116																				2	0.0	
117		2	0.0		22																	
118											2	0.0		22								
119								2	0.0								22					
120																				2	0.0	
121		2	0.0		22																	
122											2	0.0		22								
123								2	0.0								22					
124																				2	0.0	
125		2	0.0		22																	
126											2	0.0		22								
127								2	0.0								22					
128																				2	0.0	
129		2	0.0		22																	
130											2	0.0		22								
131								2	0.0								22					
132																				2	0.0	
133		2	0.0		22																	
134											2	0.0		22								
135								2	0.0								22					
136																				2	0.0	
137		2	0.0		22																	
138											2	0.0		22								
139								2	0.0								22					
140																				2	0.0	
141		2	0.0		22																	
142											2	0.0		22								
143								2	0.0								22					
144																				2	0.0	
145		2	0.0		22																	
146											2	0.0		22								
147								2	0.0								22					
148																				2	0.0	
149		2	0.0		22																	
150											2	0.0		22								
151								2	0.0								22					
152																				2	0.0	
153		2	0.0		22																	
154											2	0.0		22								
155								2	0.0								22					
156																				2	0.0	
157		2	0.0		22																	
158											2	0.0		22								
159								2	0.0								22					
160																				2	0.0	
161		2	0.0		22																	
162											2	0.0		22								
163								2	0.0								22					
164																				2	0.0	
165		2	0.0		22																	
166											2	0.0		22								
167								2	0.0								22					
168																				2	0.0	
169		2	0.0		22																	
170											2	0.0		22								
171								2	0.0								22					
1																						

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-09											
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/06/16 Finish Date: 07/06/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 15 ft. Borehole Dia.: 2.5 in. Water Depth: >15 ft. Rock Depth: >15 ft. Well Depth: na ft.											
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:								
1		1	0.0		37			FILL	mostly f-c angular gravel and broken rock, some silt and sand, brown to light brown, trace brick, dry, loose, NOSOI s.a.a., broken glass and brick in bottom 4" 2" s.a.a. 28" mostly f-c sand, variable mineralogy, some f-c gravel, little silt, trace brick, loose, dry, NOSOI		Hole backfilled with bentonite chips								
2																			
3																			
4																			
5		2	0.0		38							FILL	mostly f-c angular gravel and broken rock, some silt and sand, brown to light brown, trace brick, dry, loose, NOSOI s.a.a., broken glass and brick in bottom 4" 2" s.a.a. 28" mostly f-c sand, variable mineralogy, some f-c gravel, little silt, trace brick, loose, dry, NOSOI		Hole backfilled with bentonite chips				
6																			
7																			
8																			
9		3	0.0		30											FILL	mostly f-c angular gravel and broken rock, some silt and sand, brown to light brown, trace brick, dry, loose, NOSOI s.a.a., broken glass and brick in bottom 4" 2" s.a.a. 28" mostly f-c sand, variable mineralogy, some f-c gravel, little silt, trace brick, loose, dry, NOSOI		Hole backfilled with bentonite chips
10																			
11																			
12																			
13		End of boring at 15 feet bgs. Refusal not encountered.																	
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				Type:	Casing	Sample	Core
				Diam.:		2"	
				Weight:			
				Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-10					
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/06/16 Finish Date: 07/06/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 12 ft. Borehole Dia.: 2.5 in. Water Depth: > 12 ft. Rock Depth: ~ 12 ft. Well Depth: na ft.					
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1		1	0.0		22			FILL	mostly f-c sand, some angular f-c gravel, little silt, brown, dry, loose, NOSOI		Hole backfilled with bentonite chips		
2													
3													
4													
5		2			0				no recovery				
6													
7													
8													
9		3	0.0		23				mostly f-c gravel, some silt and sand, trace brick, brown, loose, dry, NOSOI, broken crystalline rock in tip.				
10													
11													
12													
13		Refusal encountered at 12 feet bgs. End of boring.											
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Type:	Casing	Sample	Core
										Diam.:		2"	
										Weight:			
										Fall:			

 21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026								PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-11	
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen								Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 4.5 ft. Rock Depth: ~ 4.5 ft. Well Depth: na ft.	
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1		1	0.0	766	44			Soil, dark brown			Hole backfilled with bentonite chips		
2				330			FILL	mostly f-c angular gravel, some sands and fines, granitic composition, dry, loose, NOSOI					
3													
4				nd									
5								Refusal at 4.5 feet bgs. End of boring.					
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:					
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3 bgs - below ground surface								Type:		Casing	Sample	Core	
								Diam.:			2"		
								Weight:					
								Fall:					
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.													

 21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026								PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-12	
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen								Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4 ft. Borehole Dia.: 2.5 in. Water Depth: > 4 ft. Rock Depth: ~ 4 ft. Well Depth: na ft.	
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1				129				4" SOIL, dark brown					
2		1	0.0	83	38			FILL	34" gravel, sand, silt, brick, broken rock, brown to light grey, dry, loose, NOSOI		Hole backfilled with bentonite chips		
3				30									
4								Refusal at 4 feet bgs. End of boring.					
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										Type: Casing Sample Core Diam.: 2" Weight: Fall:			
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.													

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-13				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4 ft. Borehole Dia.: 2.5 in. Water Depth: > 4 ft. Rock Depth: ~ 4 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0	176 142	24			6" SOIL, dark brown, sandy FILL 18" f-c gravel, sand, silt, brown to light grey, granitic composition, dry, loose, NOSOI			
2								Refusal encountered at 2 feet bgs (x3). End of boring.			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-14				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 7.5 ft. Rock Depth: ~ 7.5 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0	303	56			3" SOIL, dark brown, sandy			
2				107				FILL 53" mostly f-c gravel, crystalline and angular, some sand and fines, brown to grey, NOSOI, moist, loose			
3											
4											
5											
6		2	0.0	nd	30			Decomposed Rock mostly f-c sand, granitic, reddish-brown, few f gravel and fines, resembles decomposed rock, NOSOI, dry to moist			Hole backfilled with bentonite chips
7											
8								Refusal encountered at 7.5 feet bgs. End of boring.			
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

 21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026							PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-15	
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen							Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 15 ft. Borehole Dia.: 2.5 in. Water Depth: >15 ft. Rock Depth: >15 ft. Well Depth: na ft.	
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:	
1		1	0.0	392	44			3" SOIL, dark brown, trace broken glass			Hole backfilled with bentonite chips	
2												
3												
4												
5												
6		2	0.0		52			FILL				
7												
8												
9												
10												
11		3	0.0		60			silty SAND				
12												
13												
14												
15												
16				nd				End of boring at 15 feet bgs. Refusal not encountered.				
17												
18												
19												
20												
21												
22												
23												
24												
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:				
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3 bgs - below ground surface								Type: Casing Sample Core Diam.: 2" Weight: Fall:				
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.												

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-16				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 6 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0	248	32			FILL	4" SOIL, dark brown, sandy		Hole backfilled with bentonite chips
2				371					28" mostly f-c angular gravel, some sand, fines, and brick, brown to light-grey, NOSOI, dry, loose		
3											
4											
5		2	0.0	126	12				s.a.a		
6								Refusal encountered at 6 feet bgs. End of boring.			
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				Type: Casing Sample Core			
				Diam.: 2"			
				Weight:			
				Fall:			
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.							

 21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026								PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-17	
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen								Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 2.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 2.5 ft. Rock Depth: ~ 2.5 ft. Well Depth: na ft.	
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1		1	0.0	567	30			5" SOIL, dark brown, sandy					
2				524				25" mostly f angular gravel, some sand and fines, granitic composition, brown to grey, dry, loose, NOSOI					
3								Refusal at 2.5 feet bgs. End of boring.					
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:					
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface								Type: Casing Sample Core Diam.: 2" Weight: Fall:					
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.													

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-18			
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 8.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 8.5 ft. Rock Depth: ~ 8.5 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0	188	42			2" SOIL, dark brown, sandy FILL			Hole backfilled with bentonite chips
2				207			40" f-c gravel, broken rock, sand, fines, granitic composition, brown to light-grey, NOSOI, dry, loose				
3											
4											
5		2	0.0		28			SAND with fines			
6							mostly sand and fines, light-grey to reddish-brown, resembles decomposed granite, NOSOI, dry, loose				
7											
8											
9								Refusal encountered at 8.5 feet bgs. End of boring.			
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-19				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 2 ft. Borehole Dia.: 2.5 in. Water Depth: > 2 ft. Rock Depth: ~ 2 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1		1	0.0	690 252	24			6" SOIL, dark brown FILL 18" f-c gravel, sand and fines, brown to light grey, dry, loose, NOSOI			
2								Refusal encountered at 2 feet bgs (x2). End of boring.			
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-20					
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/07/16 Finish Date: 07/07/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 8 ft. Borehole Dia.: 2.5 in. Water Depth: > 8 ft. Rock Depth: ~ 8 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:	
1		1	0.0	797	24			6" SOIL, dark brown, sandy				
2				271				mostly f-c angular gravel, some sand and fines, light-grey to brown, NOSOI, dry, loose				
3												
4												
5		2	0.0	nd	32			FILL			Hole backfilled with bentonite chips	
6									mostly sand and fines, some f-c gravel, granitic composition, dry, loose, NOSOI			
7												
8												
9								Refusal encountered at 8 feet bgs. End of boring.				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				Type: Casing Sample Core			
				Diam.: 2"			
				Weight:			
				Fall:			
4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.							

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-21		
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen				Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
1								12" Concrete Slab		
2				144				FILL		No water recovery in borehole
3		1	0.0		18					
4										
5										
6		2	0.0	133	18			brick, concrete, sand and silt, coal-like material, moist, loose		Hole backfilled with bentonite chips
7								Refusal encountered at 7 feet bgs. End of boring.		
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.			
		Casing		Sample		Core	
Type:		Macrocore					
Diam.:		2"					
Weight:							
Fall:							

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-22			
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen				Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 15 ft. Borehole Dia.: 2.5 in. Water Depth: 12 ft. Rock Depth: > 20 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:	
1								12" Concrete Slab			
2				363				FILL mostly fines and sand, trace plastic, brownish-grey to dark grey/black, moist mostly f angular gravel, some sand, fines, and broken rock, trace glass and plastic, compacted, dark grey, moist to dry brick, sand, wood fiber, glass, few angular gravel, variable grey tones, wet		Slight swamp-like odor throughout	
3		1	0.0		18						
4											
5											
6											
7		2	0.0		48						Hole backfilled with bentonite chips
8											
9											
10											
11											
12		3	0.0	434	32						
13											
14											
15								End of boring at 15 feet bgs. Refusal not encountered.			
16								Set TGSP to 20 feet bgs (10-slot PVC screen, 5-20 feet bgs)			
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.									DRILLING INFORMATION Method: Direct Push Method:		
ADDITIONAL 1. NOSOI - no obvious signs of impacts 2. s.a.a - same as above 3. bgs - below ground surface 4. TGSP - Temporary Groundwater Sampling Point 5. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-23		
Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen				Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4 ft. Borehole Dia.: 2.5 in. Water Depth: > 4 ft. Rock Depth: ~ 4 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
1				65				6" Concrete Slab		
2		1	0.0		36			FILL mostly f-c gravel, some sand and fines, granitic composition, light to dark grey, bottom 4" brown with trace of brick, wood fibers, and plastic, dry		Hole backfilled with bentonite chips
3				nd						
4								Refusal at 4 feet bgs. End of boring.		
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.				DRILLING INFORMATION Method: Direct Push Method:																							
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	Casing	Sample	Core																								
Type:		Macrocore																									
Diam.:		2"																									
Weight:																											
Fall:																											
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface				4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.																							

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-24				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.		
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1				46				FILL	6" weathered concrete 17" mostly f-c gravel, some sand and fines, trace brick, light to dark grey, loose, dry, NOSOI	Hole backfilled with bentonite chips	
2		1	0.0		18				21" mostly sand and fines, some f-c gravel and broken rock, granitic composition, brown, loose, dry		
3											
4											
5											
6		2	0.0	22	18				s.a.a., bottom 2" dark grey and moist		
7								Refusal encountered at 7 feet bgs. End of boring.			
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer				DRILLING INFORMATION																							
SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston				Method: Direct Push																							
STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted.				Method:																							
NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet.				<table border="1"> <tr> <td></td> <td>Casing</td> <td>Sample</td> <td>Core</td> </tr> <tr> <td>Type:</td> <td></td> <td>Macrocore</td> <td></td> </tr> <tr> <td>Diam.:</td> <td></td> <td>2"</td> <td></td> </tr> <tr> <td>Weight:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fall:</td> <td></td> <td></td> <td></td> </tr> </table>					Casing	Sample	Core	Type:		Macrocore		Diam.:		2"		Weight:				Fall:			
	Casing	Sample	Core																								
Type:		Macrocore																									
Diam.:		2"																									
Weight:																											
Fall:																											
ADDITIONAL 1. NOSOI - no obvious signs of impacts																											
NOTES: 2. s.a.a - same as above				4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.																							
3 bgs - below ground surface																											

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07			Test Boring No.: SB-25						
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen			Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 4 ft. Borehole Dia.: 2.5 in. Water Depth: > 4 ft. Rock Depth: ~ 4 ft. Well Depth: na ft.				
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:		
1				381				6" Concrete Slab					
2		1	0.0		40			FILL	mostly f-c gravel, some sand and fines, trace brick and wood fibers, brown to dark grey, compacted, dry		Hole backfilled with bentonite chips		
3				15				Refusal at 4 feet bgs. End of boring.					
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.										Type:	Casing	Sample	Core
										Diam.:		2"	
										Weight:			
										Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-26				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 3 ft. Borehole Dia.: 2.5 in. Water Depth: > 3 ft. Rock Depth: ~ 3 ft. Well Depth: na ft.				
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:	
1								6" Concrete Slab			Hole backfilled with bentonite chips	
2		1	0.0	115	20			FILL	8" brick, fines, sand, f gravel, trace plastic, dark grey, compacted, dry			
3									12" sand, broken rock, fines, brown, loose, dry			
4								Refusal at 3 feet bgs. End of boring.				
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
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21												
22												
23												
24												
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.										DRILLING INFORMATION Method: Direct Push Method:		
										Casing	Sample	Core
										Type:	Macrocore	
										Diam.:	2"	
										Weight:		
										Fall:		
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface										4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.		

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07		Test Boring No.: SB-27				
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na				
						Total Depth: 3.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 3.5 ft. Rock Depth: ~ 3.5 ft. Well Depth: na ft.				
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:	Well Diagram	Field Notes, Well Notes, Comments:
1				463	30			6" Concrete Slab		Hole backfilled with bentonite chips
2		1	0.0					FILL		
3				1646						
4								Refusal at 3.5 feet bgs. End of boring.		
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
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23										
24										
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:		
								Casing	Sample	Core
								Type:	Macrocore	
								Diam.:	2"	
								Weight:		
								Fall:		
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface								4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.		

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-28			
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 7 ft. Borehole Dia.: 2.5 in. Water Depth: >7 ft. Rock Depth: ~ 7 ft. Well Depth: na ft.			
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:
1								6" concrete slab			
2				75				FILL	9" sands, fines, and f gravel, brown to dark grey, loose, dry		
3		1	0.0		16						
4									7" black plastic, unidentifiable, bottom 1" wet		
5											
6		2	0.0	62	16				sands, fines, f gravel, brown to dark grey, moist to dry.		Hole backfilled with bentonite chips
7								Refusal encountered at 7 feet bgs. End of boring.			
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted. NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet. 3. Refer to the "Interpretation of Subsurface Logs" for additional symbology and abbreviation definitions.								DRILLING INFORMATION Method: Direct Push Method:			
ADDITIONAL 1. NOSOI - no obvious signs of impacts NOTES: 2. s.a.a - same as above 3. bgs - below ground surface 4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.								Type:	Casing	Sample	Core
								Diam.:		2"	
								Weight:			
								Fall:			

		21 Fox Street Poughkeepsie, NY 12601 Phn: (845) 454-3980 Fax: (845) 454-4026		PROJECT: Lower South Street Redevelopment BCP LOCATION: Lower South Street, Peekskill, NY CLIENT: City of Peekskill PROJECT NO.: 81323.07				Test Boring No.: SB-29																							
		Contractor: Summit Drilling Drill Rig: Geoprobe 6620DT Driller: Jeremy Logel Geologist: Will Olsen		Start Date: 07/08/16 Finish Date: 07/08/16 El. Datum: na G.S. Elevation: na		Northing: na Easting: na Longitude: na Latitude: na		Total Depth: 3.5 ft. Borehole Dia.: 2.5 in. Water Depth: > 3.5 ft. Rock Depth: ~ 3.5 ft. Well Depth: na ft.																							
Depth (Ft)	Elevation (Ft)	Sample No.	PID (ppm)	XRF (lead, ppm)	Recovery (in)	Groundwater	Group Symbol	Stratum and Field Descriptions:		Well Diagram	Field Notes, Well Notes, Comments:																				
1				35				6" Concrete Slab			Hole backfilled with bentonite chips																				
2		1	0.0		11			FILL	sand, gravel, and fines, light grey to brown, loose, dry, NOSOI																						
3								Refusal at 3.5 feet bgs. End of boring.																							
4																															
5																															
6																															
7																															
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METHODS: HSA- Hollow Stem Auger, RWH- Rotary Wash, SSA- Solid Stem Auger, CPT- Cone Penetrometer								DRILLING INFORMATION																							
SAMPLE TYPES: AS-Auger, WS-Wash, SS-Split Spoon, RC-Rock Core, GS-Grab, ST-Shelby Tube, PS-Piston								Method: Direct Push																							
STANDARD 1. Samples classified in accordance with ASTM D-2488 unless otherwise noted.								Method:																							
NOTES: 2. Test Boring Log Page 1: 0 - 20 feet. Each subsequent page: Additional 20 feet.								<table border="1"> <tr> <td></td> <td>Casing</td> <td>Sample</td> <td>Core</td> </tr> <tr> <td>Type:</td> <td></td> <td>Macrocore</td> <td></td> </tr> <tr> <td>Diam.:</td> <td></td> <td>2"</td> <td></td> </tr> <tr> <td>Weight:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Fall:</td> <td></td> <td></td> <td></td> </tr> </table>					Casing	Sample	Core	Type:		Macrocore		Diam.:		2"		Weight:				Fall:			
	Casing	Sample	Core																												
Type:		Macrocore																													
Diam.:		2"																													
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ADDITIONAL 1. NOSOI - no obvious signs of impacts																															
NOTES: 2. s.a.a - same as above								4. XRF readings (average of 2-3 scans) represent the 0-2", 0-2', or as otherwise shown, depth intervals.																							
3 bgs - below ground surface																															

Appendix B: Laboratory Results Summary Tables for 2016 Remedial Investigation

TABLE NOTES

Qualifiers

- U The compound was not detected at the indicated concentration.
- N (Organics) Presumptive Evidence of a Compound
- N (Inorganics)- The matrix spike recovery was outside control limits
- J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the concentration given is an approximate value.
- J- The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
- J+ The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high
- B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environment.
- P For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * (Organics) For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- * (Inorganics) The sample/duplicate %RPD was above the control limit.
- E (Organics) Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) The reported value is estimated because of the presence of interference.
- D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- Q indicates LCS control criteria did not meet requirements.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
- NA Not analyzed
- NS indicates that there is no listed standard for that analyte
- nd < Compound was not detected at or above laboratory method reporting limit
- U compound not detected above laboratory method reporting limit
- Shaded cells indicate values that are greater than the standard.

Groundwater Standards:

* = Guidance Value

**No Part 703 guidance value; Value listed is TOGS 1.1.1 Groundwater Standard

Table 1. VOCs in Soil

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site				Northwestern Former L&L Site				Central Former L&L Site		Northern 1011 LSS		1017 LSS - Between Office Building and Building #6									
Sample Location			SB-5	SB-10	SB-16		SB-18		SB-19		SS-03		SS-05		SB-21		SB-22		SB-25		SB-28			
Sample ID			LSS-SB-SB05(0-2ft)	LSS-SB-SB10(0-2ft)	LSS-SB-SB16(0-2ft)	LSS-SB-SB16(0-2ft)RE	LSS-SB-SB18(0-2ft)	LSS-SB-SB18(0-2ft)RE	LSS-SB-SB19(0-2ft)	LSS-SB-SB19(0-2ft)RE	LSS-SS-SS03(0-2in)	LSS-SS-SS03(0-2in)RE	LSS-SS-SS05(0-2in)	LSS-SS-SS05(0-2in)RE	LSS-SB-SB21(1-3ft)	LSS-SB-SB21(1-3ft)RE	LSS-SB-SB22(1-3ft)	LSS-SB-SB22(1-3ft)RE	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-SB25(0.5-2.5ft)RE	LSS-SB-SB28(0.5-2.5ft)	LSS-SB-SB28(0.5-2.5ft)RE		
Lab Sample Number			H3951-14	H3972-09	H3995-07	H3995-07RE	H3995-10	H3995-10RE	H3995-13	H3995-13RE	H3972-13	H3972-13RE	H3972-15	H3972-15RE	H3995-15	H3995-15RE	H3995-18	H3995-18RE	H3995-23	H3995-23RE	H3995-25	H3995-25RE		
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/6/2016	7/6/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016			
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
1,1,1-Trichloroethane	0.68	100	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,1,2,2-Tetrachloroethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,1,2-Trichloroethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,1,2-Trichlorotrifluoroethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,1-Dichloroethane	0.27	26	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,1-Dichloroethene	0.33	100	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2,3-Trichlorobenzene	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 U	0.0065 R	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2,4-Trichlorobenzene	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2,4-Trimethylbenzene	3.6	52	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0168 J	0.0258 J	0.0049 U	0.005 U		
1,2-Dibromo-3-Chloropropane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 U	0.0065 R	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2-Dibromoethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2-Dichlorobenzene	1.1	100	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0159 J	0.0195 J	0.0049 U	0.005 U		
1,2-Dichloroethane	0.02	3.1	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,2-Dichloropropane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,3,5-Trimethylbenzene	8.4	52	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 U	0.0065 U	0.0018 J	0.0029 J	0.0049 U	0.005 U		
1,3-Dichlorobenzene	2.4	49	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
1,4-Dichlorobenzene	1.8	13	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 R	0.0075 U	0.0068 R	0.0065 U	0.0021 J	0.0024 J	0.0049 U	0.005 U		
1,4-Dioxane	0.1	13	0.1 R	0.0984 U	0.0984 R	0.0862 U	0.0877 R	0.091 U	0.12 R	0.0852 U	0.1 U	0.1 U	0.14 U	0.12 U	0.15 R	0.15 U	0.14 R	0.13 U	0.1 J	0.1 J	0.0983 R	0.1 U		
2-Butanone	0.12	100	0.0259 U	0.0246 U	0.0246 U	0.0215 U	0.0219 U	0.0227 U	0.0293 U	0.0213 U	0.0257 U	0.0255 U	0.0345 U	0.0296 U	0.0372 U	0.0358 J	0.034 U	0.0323 U	0.026 U	0.0258 U	0.0246 U	0.0252 U		
2-Hexanone	NS	NS	0.0026 J	0.0246 U	0.0246 U	0.0215 U	0.0219 U	0.0227 U	0.0293 U	0.0213 U	0.0257 U	0.0255 U	0.0345 U	0.0296 U	0.0372 U	0.0374 U	0.034 U	0.0323 U	0.026 U	0.0258 U	0.0246 U	0.0252 U		
4-Methyl-2-Pentanone	NS	NS	0.0259 U	0.0246 U	0.0246 U	0.0215 U	0.0219 U	0.0227 U	0.0293 U	0.0213 U	0.0257 U	0.0255 U	0.0345 U	0.0296 U	0.0372 U	0.0374 U	0.034 U	0.0323 U	0.026 U	0.0258 U	0.0246 U	0.0252 U		
Acetone	0.05	100	0.0259 U	0.0246 U	0.0246 U	0.0215 U	0.0219 U	0.0227 U	0.0293 U	0.0213 U	0.0257 U	0.0255 U	0.0345 U	0.0296 U	0.19 J	0.47 J	0.2 J	0.27 J	0.0979 J	0.0676 J	0.059 J	0.0714 J		
Benzene	0.06	4.8	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
Bromochloromethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
Bromodichloromethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
Bromoform	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
Bromomethane	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0075 U	0.0068 U	0.0065 U	0.0052 U	0.0052 U	0.0049 U	0.005 U		
Carbon Disulfide	NS	NS	0.0052 U	0.0049 U	0.0049 U	0.0043 U	0.0044 U	0.0045 U	0.0059 U	0.0043 U	0.0051 U	0.0051 U	0.0069 U	0.0059 U	0.0074 U	0.0043 J	0.0068 U	0.0065 U	0.0086	0.0075				

Table 2. SVOCs in Soil

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site										Northeastern Former L&L Site									
Sample Location			SB-01			SB-02			SB-03			SB-04	SB-04		SB-05			SB-6				
Sample ID			LSS-SB-SB01(0-2in)	LSS-SB-SB01(0-2ft)	LSS-SB-SB01(7-9ft)	LSS-SB-SB02(0-2in)	LSS-SB-SB02(0-2ft)	LSS-SB-SB02(SB02(11-13ft)	LSS-SB-SB03(0-2in)	LSS-SB-SB03(0-2ft)	LSS-SB-SB03(5-7ft)	LSS-SB-SB04(0-2in)	LSS-SB-SB04(0-2ft)	LSS-SB-SB04(2-3.5ft)	LSS-SB-SB05(0-2in)	LSS-SB-SB05(0-2ft)	LSS-SB-SB05(2-4ft)	LSS-SB-SB06(0-2in)	LSS-SB-SB06(0-2ft)	LSS-SB-XD01	LSS-SB-SB06(7-9ft)	
Lab Sample Number			H3951-01	H3951-02	H3951-03	H3951-04	H3951-05	H3951-06	H3951-07	H3951-08	H3951-09	H3951-10	H3951-11	H3951-12	H3951-13	H3951-14	H3951-15	H3951-16	H3951-17	H3951-23	H3951-18	
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/5/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/5/2016	7/6/2016		
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
1,1-Biphenyl	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
1,2,4,5-Tetrachlorobenzene	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
1,4-Dioxane	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,2-oxybis(1-Chloropropane)	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,3,4,6-Tetrachlorophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4,5-Trichlorophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4,6-Trichlorophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4-Dichlorophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4-Dimethylphenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4-Dinitrophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,4-Dinitrotoluene	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2,6-Dinitrotoluene	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Chloronaphthalene	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Chlorophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Methylnaphthalene	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Methylphenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Nitroaniline	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
2-Nitrophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
3,3-Dichlorobenzidine	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
3+4-Methylphenols	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
3-Nitroaniline	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4,6-Dinitro-2-methylphenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Bromophenyl-phenylether	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Chloro-3-methylphenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Chloroaniline	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Chlorophenyl-phenylether	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Nitroaniline	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
4-Nitrophenol	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Acenaphthene	20	100	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Acenaphthylene	100	100	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	0.48 J	0.35 U	0.87 U	0.73 J	0.42	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Acetophenone	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Anthracene	100	100	0.16 J	0.35 U	0.35 U	2.1 U	0.35 J	0.37 U	0.22 J	0.78 J	0.35 U	0.37 J	0.88 J	0.42	1.9 U	1.7 U	1.7 U	1.8 U	0.0838 J	0.41 J		
Atrazine	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Benzaldehyde	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
Benzo(a)anthracene	1	1	0.52 J	0.13 J	0.0765 J	0.57 J	1.1	0.37 U	0.53 J	2.1	0.35	1.4	2.5 J	0.62	1.5 J	1.3 J	1.7 U	0.83 J	0.33 J	1 J		
Benzo(a)pyrene	1	1	0.59 J	0.14 J	0.35 U	0.69 J	1.2	0.37 U	0.67 J	1.9	0.35	1.5	2.3 J	0.7	1.7 J	1.3 J	1.7 U	1.1 J	0.31 J	0.94 J		
Benzo(b)fluoranthene	1	1	0.72 J	0.18 J	0.0926 J	0.79 J	1.2	0.37 U	0.98	2.3	0.44	1.8	2.4 J	0.75	2.1	1.7	1.7 U	1.4 J	0.41	1.1 J		
Benzo(g,h,i)perylene	100	100	0.67 J	0.0826 J	0.35 U	0.42 J	0.87	0.37 U	0.67 J	1.2 J	0.16 J	0.98	1.4 J	0.59	1.2 J	0.77 J	1.7 U	1.3 J	0.17 J	0.55 J		
Benzo(k)fluoranthene	0.8	3.9	0.36 J	0.35 U	0.35 U	2.1 U	0.57 J	0.37 U	0.34 J	0.87 J	0.15 J	0.81 J	0.84 J	0.29 J	0.69 J	0.58 J	1.7 U	0.37 J	0.16 J	0.38 J		
bis(2-Chloroethoxy)methane	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U	1.9 U	1.7 U	1.7 U	1.8 U	0.34 U	1.7 U		
bis(2-Chloroethyl)ether	NS	NS	0.74 U	0.35 U	0.35 U	2.1 U	0.78 U	0.37 U	0.81 U	1.7 U	0.35 U	0.87 U	3.5 U	0.34 U								

Table 2. SVOCs in Soil

LSS SITE AREA		6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site										Northwestern Former L&L Site		Former L&L Site - North of Soil Stockpiles			Northern 1011 LSS			
Sample Location				SB-07		SB-07		SB-08		SB-09		SB-10		SB-12		SS-01	SS-02	SS-03	SS-04	SS-05		
				LSS-SB-SB07(0-2in)	LSS-SB-SB07(0-2ft)	LSS-SB-SB07(5-7ft)	LSS-SB-SB08(0-2in)	LSS-SB-SB08(0-2ft)	LSS-SB-SB08(8-10ft)	LSS-SB-SB09(0-2in)	LSS-SB-SB09(0-2ft)	LSS-SB-SB09(13-15ft)	LSS-SB-SB10(0-2in)	LSS-SB-SB10(0-2ft)	LSS-SB-SB10(10-12ft)	LSS-SB-SB12(0-2in)	LSS-SB-XD02	LSS-SS-SS01(0-2in)	LSS-SS-SS02(0-2in)	LSS-SS-SS03(0-2in)	LSS-SS-SS04(0-2in)	LSS-SS-SS05(0-2in)
				H3951-19	H3951-20	H3972-01	H3972-02	H3972-03	H3972-04	H3972-05	H3972-06	H3972-07	H3972-08	H3972-09	H3972-10	H3995-02	H3995-05	H3972-11	H3972-12	H3972-13	H3972-14	H3972-15
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/7/2016	7/7/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016		
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
1,1-Biphenyl	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
1,2,4,5-Tetrachlorobenzene	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
1,4-Dioxane	NS	NS	0.42 U	0.35 U	0.34 R	1.6 R	0.76 R	0.35 R	0.98 R	1.4 R	0.35 R	0.45 R	0.37 R	0.36 R	0.39 R	0.4 R	0.45 R	0.41 R	0.38 R	0.37 R	0.42 R	
2,2-oxybis(1-Chloropropane)	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,3,4,6-Tetrachlorophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,4,5-Trichlorophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,4,6-Trichlorophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,4-Dichlorophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,4-Dimethylphenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 R	0.42 U	
2,4-Dinitrophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,4-Dinitrotoluene	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2,6-Dinitrotoluene	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2-Chloronaphthalene	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2-Chlorophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2-Methylnaphthalene	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.14 J	0.16 J	0.38 U	0.37 U	0.42 U	
2-Methylphenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2-Nitroaniline	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
2-Nitrophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
3,3-Dichlorobenzidine	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
3+4-Methylphenols	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
3-Nitroaniline	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4,6-Dinitro-2-methylphenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 R	0.42 U	
4-Bromophenyl-phenylether	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4-Chloro-3-methylphenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4-Chloroaniline	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4-Chlorophenyl-phenylether	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4-Nitroaniline	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
4-Nitrophenol	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
Acenaphthene	20	100	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1 J	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.23 J	0.0912 J	0.38 U	0.37 U	0.42 U	
Acenaphthylene	100	100	0.42 U	0.35 U	0.34 U	1.6 U	0.18 J	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.13 J	0.39 U	0.4 U	0.14 J	1.3	0.38 U	0.1 J	0.42 U	
Acetophenone	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
Anthracene	100	100	0.0891 J	0.35 U	0.34 U	0.35 J	0.17 J	0.35 U	0.98 U	4	0.35 U	0.45 U	0.12 J	0.22 J	0.39 U	0.4 U	0.89	0.8	0.1 J	0.21 J	0.42 U	
Atrazine	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
Benzaldehyde	NS	NS	0.42 U	0.35 U	0.34 U	1.6 U	0.76 U	0.35 U	0.98 U	1.4 U	0.35 U	0.45 U	0.37 U	0.36 U	0.39 U	0.4 U	0.45 U	0.41 U	0.38 U	0.37 U	0.42 U	
Benzo(a)anthracene	1	1	0.32 J	0.35 U	0.34 U	1 J	0.35 J	0.35 U	0.4 J	6.2	0.35 U	0.22 J	0.35 J	0.5	0.26 J	0.2 J	2	2	0.25 J	0.84	0.11 J	
Benzo(a)pyrene	1	1	0.38 J	0.0858 J	0.34 U	0.98 J	0.56 J	0.35 U	0.41 J	4.5	0.35 U	0.27 J	0.36 J	0.44	0.28 J	0.19 J	1.8	2.6	0.25 J	0.92	0.16 J	
Benzo(b)fluoranthene	1	1	0.51	0.11 J	0.34 U	1.3 J	0.63 J	0.35 U	0.56 J	5.7	0.35 U	0.34 J	0.44	0.6	0.42	0.24 J	2.4	3.2	0.36 J	1.2	0.19 J	
Benzo(g,h,i)perylene	100	100	0.28 J	0.35 U	0.34 U	0.56 J	0.43 J	0.35 U	0.28 J	1.8	0.35 U	0.16 J	0.23 J	0.26 J	0.22 J	0.18 J	1.3	2.1	0.21.			

Table 3A. Metals in Soil

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site						Northwestern Former L&L Site							
Sample Location			SB-05			SB-10			SB-11	SB-12			SB-16			
Sample ID			LSS-SB-SB05(0-2in)	LSS-SB-SB05(0-2ft)	LSS-SB-SB05(2-4ft)	LSS-SB-SB10(0-2in)	LSS-SB-SB10(0-2ft)	LSS-SB-SB10(10-12ft)	LSS-SB-SB11(0-2in)	LSS-SB-SB12(0-2in)	LSS-SB-XD02	LSS-SB-SB12(0-2ft)	LSS-SB-SB12(2-4ft)	LSS-SB-SB16(0-2in)	LSS-SB-SB16(0-2ft)	LSS-SB-SB16(4-6ft)
Lab Sample Number			H3951-13	H3951-14	H3951-15	H3972-08	H3972-09	H3972-10	H3995-01	H3995-02	H3995-05	H3995-03	H3995-04	H3995-06	H3995-07	H3995-08
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	NS	NS	8960	9520	9380	10900	10100	19200	NA	7390	NA	NA	NA	NA	NA	NA
Antimony	NS	NS	2.01 J	2.22 UJ	2.2 UN	2.94 UN	2.36 UN	0.899 JN	NA	2.53 UN	NA	NA	NA	NA	NA	NA
Arsenic	13	16	7.26	3.23	3.23	2.34	2.36	1.38	NA	3.7	NA	NA	NA	NA	NA	NA
Barium	350	400	143	121	57.2	131	101	272	NA	82.2	NA	NA	NA	NA	NA	NA
Beryllium	7.2	72	0.58	0.382	0.375	0.446	0.449	0.508	NA	0.386	NA	NA	NA	NA	NA	NA
Cadmium	2.5	4.3	5.58	0.626	0.59	3.75	2.24	7.41	NA	1.2	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	11300	5290	7220	8250	6860	5760	NA	33400	NA	NA	NA	NA	NA	NA
Chromium	30	180	48.6	18 J-	9.55	18.4 N	13.5 N	27.7 N	NA	16.7	NA	NA	NA	NA	NA	NA
Cobalt	NS	NS	15 N	17.2 J	11.4 N	14	14.3	34	NA	8.86	NA	NA	NA	NA	NA	NA
Copper	50	270	4570	120 J-	30.9	2400	50.7	561	NA	56.7	NA	NA	NA	NA	NA	NA
Iron	NS	NS	26200 D	21200	22900	7270	6250	8500	NA	17300	NA	NA	NA	NA	NA	NA
Lead	63	400	2220 N	105 J	64.9 N	368	91.7	115	801	134	149	84.4	27.4	367	346	104
Magnesium	NS	NS	6060	6230	5930	5840	6530	11900	NA	8070	NA	NA	NA	NA	NA	NA
Manganese	1,600	2,000	374	257	330	311	309	300	NA	341	NA	NA	NA	NA	NA	NA
Mercury	0.18	0.81	0.339	0.081 J-	0.023	0.149	0.086	0.161	NA	0.167	NA	NA	NA	NA	NA	NA
Nickel	30	310	281 N	72.9 J	18 N	32.9	31.8	47.5	NA	18.3	NA	NA	NA	NA	NA	NA
Potassium	NS	NS	1380	1870	815	1510	1190	2560	NA	1820	NA	NA	NA	NA	NA	NA
Selenium	3.9	180	0.962 U	0.889 U	0.879 U	1.18 U	0.94 U	0.89 U	NA	1.01 U	NA	NA	NA	NA	NA	NA
Silver	2	180	0.481 UN	0.445 UJ	0.44 UN	0.789 N	0.47 UN	0.447 UN	NA	0.507 UN	NA	NA	NA	NA	NA	NA
Sodium	NS	NS	189	153	320	118	108	278	NA	122	NA	NA	NA	NA	NA	NA
Thallium	NS	NS	1.92 U	1.78 U	1.76 U	2.35 U	1.88 U	1.79 U	NA	2.03 U	NA	NA	NA	NA	NA	NA
Vanadium	NS	NS	30.7	37.1	38.8	32.4	30.1	94.2	NA	20.9	NA	NA	NA	NA	NA	NA
Zinc	109	10,000	853	119	72.7	360	130	654	NA	153	NA	NA	NA	NA	NA	NA

Table 3A. Metals in Soil

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northwestern Former L&L Site		Former L&L Site - North of Soil Stockpiles			1011 LSS Northern Area		1017 LSS - Between Office Building and Building #6				
Sample Location			SB-18		SS-01	SS-02	SS-03	SS-04	SS-05	SB-23	SB-24	SB-25		SB-28
Sample ID			LSS-SB-SB18(0-2in)	LSS-SB-SB18(0-2ft)	LSS-SS-SS01(0-2in)	LSS-SS-SS02(0-2in)	LSS-SS-SS03(0-2in)	LSS-SS-SS04(0-2in)	LSS-SS-SS05(0-2in)	LSS-SB-SB23(2.5-4.0ft)	LSS-SB-SB24(0.5-2.5ft)	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-XD03	LSS-SB-SB28(0.5-2.5ft)
Lab Sample Number			H3995-09	H3995-10	H3972-11	H3972-12	H3972-13	H3972-14	H3972-15	H3995-20	H3995-21	H3995-23	H3995-24	H3995-25
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/7/2016	7/7/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aluminum	NS	NS	NA	NA	21600	11600	20300	7240	6860	NA	NA	NA	NA	NA
Antimony	NS	NS	NA	NA	2.95 N	139 N	6.27 N	1.15 J	2.77 UN	NA	NA	NA	NA	NA
Arsenic	13	16	NA	NA	5.23	7.27	2.79	5.93	3.08	NA	NA	NA	NA	NA
Barium	350	400	NA	NA	243	154	356	104	53.2	NA	NA	NA	NA	NA
Beryllium	7.2	72	NA	NA	0.701	0.576	0.54	0.472	0.357	NA	NA	NA	NA	NA
Cadmium	2.5	4.3	NA	NA	17.7	11	10.5	6.48 J-	1.62	NA	NA	NA	NA	NA
Calcium	NS	NS	NA	NA	7900	12900	6660	37700 J-	64000	NA	NA	NA	NA	NA
Chromium	30	180	NA	NA	42.9 N	33.8 N	50.2 N	28.3 J	10.4 N	NA	NA	NA	NA	NA
Cobalt	NS	NS	NA	NA	22.7	14.8	33.4	9.14	6.06	NA	NA	NA	NA	NA
Copper	50	270	NA	NA	1590	15400	956	164 J-	34.5	NA	NA	NA	NA	NA
Iron	NS	NS	NA	NA	11900	8230	10400	7910 J-	5350	NA	NA	NA	NA	NA
Lead	63	400	222	183	1220	11700	2600	339	36.7	12.9	64.6	195	191	87.2
Magnesium	NS	NS	NA	NA	6310	8810	12700	12400	28400	NA	NA	NA	NA	NA
Manganese	1,600	2,000	NA	NA	451	431	325	317 J-	253	NA	NA	NA	NA	NA
Mercury	0.18	0.81	NA	NA	1.2 D	1.87 D	1.51 D	0.395	0.016 U	NA	NA	NA	NA	NA
Nickel	30	310	NA	NA	161	44.6	72.4	24.4 J-	12.5	NA	NA	NA	NA	NA
Potassium	NS	NS	NA	NA	1990	1150	2740	1240	911	NA	NA	NA	NA	NA
Selenium	3.9	180	NA	NA	1.12 U	1.03 U	0.941 U	0.961 U	1.11 U	NA	NA	NA	NA	NA
Silver	2	180	NA	NA	0.56 UN	0.514 UN	0.47 UN	0.481 UJ	0.553 UN	NA	NA	NA	NA	NA
Sodium	NS	NS	NA	NA	276	121	331	699	485	NA	NA	NA	NA	NA
Thallium	NS	NS	NA	NA	2.24 U	2.06 U	1.88 U	1.92 U	2.21 U	NA	NA	NA	NA	NA
Vanadium	NS	NS	NA	NA	42	30.4	112	24.1	21.8	NA	NA	NA	NA	NA
Zinc	109	10,000	NA	NA	1270	1600	636	364	78.2	NA	NA	NA	NA	NA

Table 3B. Lead in Soil - Comparison of XRF Field Screening and Laboratory Results

Boring	Depth Interval	XRF Field Scanning Results (lead, ppm)				Analytical Laboratory Result (lead, ppm)
		xrf ₁	xrf ₂	xrf ₃	Average	
SB-11	0-2"	646	875	778	766	801
	0-2'	347	333	310	330	na
	2.5-4.5'	nd	nd	nd	nd	na
SB-12	0-2"	134	136	116	129	134
	0-2'	93	78	79	83	84.4
	2-4'	29	39	23	30	na
SB-13	0-2"	201	152	175	176	na
	0-2'	135	112	178	142	na
SB-14	0-2"	281	326	303	303	na
	0-2'	132	77	111	107	na
	5.5-7.5'	nd	nd	nd	nd	na
SB-15	0-2"	405	367	405	392	na
	0-2'	246	252	290	263	na
	13-15'	nd	nd	nd	nd	na
SB-16	0-2"	232	229	283	248	367
	0-2'	441	365	308	371	346
	4-6'	108	124	147	126	184
SB-17	0-2"	544	589	568	567	na
	0-2.5'	512	466	593	524	na
SB-18	0-2"	189	179	196	188	222
	0-2'	214	219	187	207	183
	6.5-8.5'	nd	nd	nd	nd	na
SB-19	0-2"	666	678	725	690	na
	0-2'	224	282	249	252	na
SB-20	0-2"	743	850	na	797	na
	0-2'	250	291	na	271	na
	6-8'	nd	nd	na	nd	na
SB-21	1-3'	237	67	128	144	na
	5-7'	96	167	135	133	na
SB-22	1-3'	445	373	272	363	na
	10-15'	266	308	729	434	na
SB-23	0.5-2.5'	45	91	60	65	na
	2.5-4.0'	nd	nd	nd	15	12.9
SB-24	0.5-2.5'	43	45	50	46	64.6
	5-7'	nd	19	24	22	na
SB-25	0.5-2.5'	833	163	147	265	195
	0.5-2.5' (repeat)	179	160	107		
	2.5-4'	nd	15	nd	15	na
SB-26	0-3'	66	138	140	115	na
SB-27	0.5-2.5'	585	288	515	463	na
	2.5-3.5'	1691	1600	na	1646	na
SB-28	0.5-2.5'	73	98	55	75	87.2
	5-7'	65	58	64	62	na
SB-29	0.5-2'	35	nd	35	35	na

nd - not detected na - not analyzed

Chart for Table 3B. Correlation of Field XRF Readings and Analytical Laboratory Results

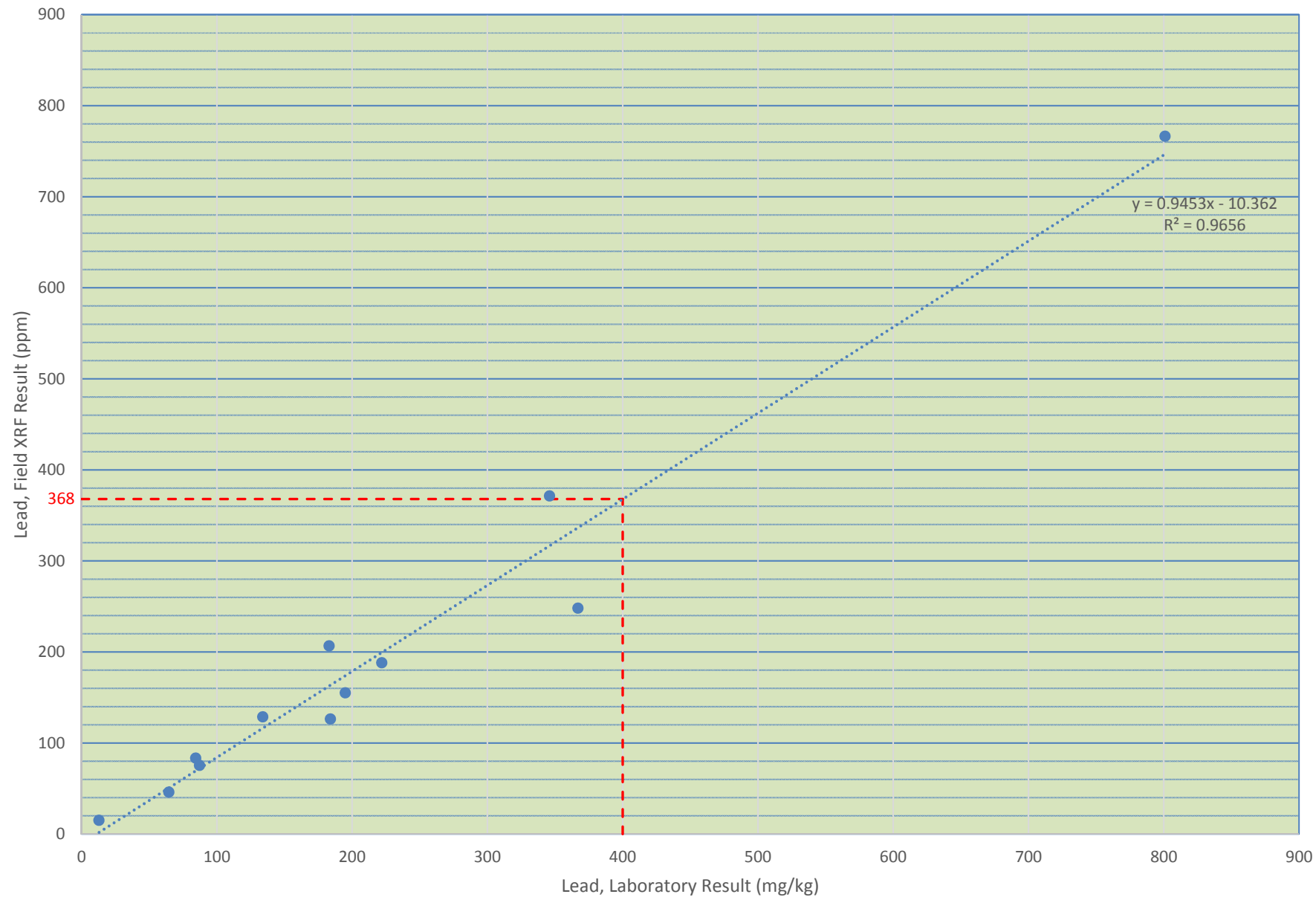


Table 4. PCBs in Soil

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northeastern Former L&L Site							Northwestern Former L&L Site					Former L&L Site - North of Soil Stockpiles		
Sample Location			SB-05			SB-10				SB-12		SB-18	SB-19		SS-01	SS-02	SS-03
Sample ID			LSS-SB-SB05(0-2in)	LSS-SB-SB05(0-2ft)	LSS-SB-SB05(2-4ft)	LSS-SB-SB10(0-2in)	LSS-SB-SB10(0-2ft)	LSS-SB-SB10(0-2ft)RE	LSS-SB-SB10(10-12ft)	LSS-SB-SB12(0-2in)	LSS-SB-XD02	LSS-SB-SB18(6.5-8.5ft)	LSS-SB-SB19(0-2in)	LSS-SB-SB19(0-2ft)	LSS-SS-SS01(0-2in)	LSS-SS-SS02(0-2in)	LSS-SS-SS03(0-2in)
Lab Sample Number			H3951-13	H3951-14	H3951-15	H3972-08	H3972-09	H3972-09RE	H3972-10	H3995-02	H3995-05	H3995-11	H3995-12	H3995-13	H3972-11	H3972-12	H3972-13
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/6/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/7/2016	7/6/2016	7/6/2016	7/6/2016
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1221	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1232	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1242	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1248	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	8	0.0194 U
Aroclor-1254	0.1	1	0.18 J+	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.12	0.0434	0.35 J+	0.021 U	0.0194 U
Aroclor-1262	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1268	0.1	1	0.0197 U	0.0179 U	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.0201 U	0.0203 U	0.0194 U	0.0195 U	0.018 U	0.0231 U	0.021 U	0.0194 U
Aroclor-1260	0.1	1	0.15 J+	0.0518	0.0178 U	0.0233 U	0.0191 U	0.0191 U	0.0187 U	0.032 J	0.0203 U	0.0194 U	0.15	0.018 U	0.59 J+	0.021 U	0.0194 U
Total PCBs	0.1	1	0.33	0.0518	-	-	-	-	-	0.032	-	-	0.27	0.0434	0.94	8	-

LSS SITE AREA	6 NYCRR Part 375 Soil Cleanup Objectives		Northern 1011 LSS			1017 LSS - Between Office Building and Building #6										
Sample Location			SS-04	SS-05		SB-21		SB-22		SB-23		SB-24		SB-25		SB-28
Sample ID			LSS-SS-SS04(0-2in)	LSS-SS-SS05(0-2in)	LSS-SS-SS05(0-2in)RE	LSS-SB-SB21(1-3ft)	LSS-SB-SB21(5-7ft)	LSS-SB-SB22(1-3ft)	LSS-SB-SB22(10-15ft)	LSS-SB-SB23(0.5-2.5ft)	LSS-SB-SB23(2.5-4.0ft)	LSS-SB-SB24(0.5-2.5ft)	LSS-SB-SB24(5-7ft)	LSS-SB-SB25(0.5-2.5ft)	LSS-SB-XD03	LSS-SB-SB28(0.5-2.5ft)
Lab Sample Number			H3972-14	H3972-15	H3972-15RE	H3995-15	H3995-16	H3995-18	H3995-17	H3995-19	H3995-20	H3995-21	H3995-22	H3995-23	H3995-24	H3995-25
Sampling Date	Unrestricted Use	Restricted-Residential Use	7/6/2016	7/6/2016	7/6/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016	7/8/2016
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Units	ppm	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1221	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1232	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1242	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.62 D	0.018 U	0.230	0.0182 U	1.4 J	2.1 J	0.0188 U
Aroclor-1248	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1254	0.1	1	0.69 D	0.0284 J-	0.0326	0.0247 U	0.0195 U	0.12 P	0.0613 J	0.13 J	0.018 U	0.0818 J	0.0182 U	0.34 J	0.62 D	0.0188 U
Aroclor-1262	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1268	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0195 U	0.0247 U	0.0202 U	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.0188 U
Aroclor-1260	0.1	1	0.019 U	0.0218 U	0.0218 U	0.0247 U	0.0521	0.0247 U	0.0561 J	0.0184 U	0.018 U	0.0177 U	0.0182 U	0.0189 U	0.0191 U	0.031 J
Total PCBs	0.1	1	0.69	0.2028	0.0326	-	0.0521	0.12	0.1174	0.75	-	0.31	-	1.7	2.7	0.0310

Table 5. VOCs in Groundwater

Sample Location	6 NYCRR Part 703.5 Groundwater Standard	SB-22 on 1017 LSS	
Sample ID		LSS-MW-SB22(20)	
Lab Sample Number		H3995-26	
Sampling Date		7/8/2016	
Matrix		Water	
Units	ug/L	ug/L	
1,1,1-Trichloroethane	5*	5	U
1,1,2,2-Tetrachloroethane	5*	5	U
1,1,2-Trichloroethane	1	5	U
1,1,2-Trichlorotrifluoroethane	5*	5	U
1,1-Dichloroethane	5*	5	U
1,1-Dichloroethene	5*	5	U
1,2,3-Trichlorobenzene	5*	5	U
1,2,4-Trichlorobenzene	5*	5	U
1,2,4-Trimethylbenzene	5*	5	U
1,2-Dibromo-3-Chloropropane	0.04	5	U
1,2-Dibromoethane	NS	5	U
1,2-Dichlorobenzene	3	5	U
1,2-Dichloroethane	0.6	5	U
1,2-Dichloropropane	1	5	U
1,3,5-Trimethylbenzene	5*	5	U
1,3-Dichlorobenzene	3	5	U
1,4-Dichlorobenzene	3	5	U
1,4-Dioxane	NS	100	R
2-Butanone	NS	25	U
2-Hexanone	NS	25	U
4-Methyl-2-Pentanone	NS	25	U
Acetone	NS	25	U
Benzene	1	5	U
Bromochloromethane	5*	5	U
Bromodichloromethane	NS	5	U
Bromoform	NS	5	U
Bromomethane	5*	5	U
Carbon Disulfide	60	5	U
Carbon Tetrachloride	5	5	U
Chlorobenzene	5*	5	U
Chloroethane	5*	5	U
Chloroform	7	5	U
Chloromethane	NS	0.55	J
cis-1,2-Dichloroethene	5*	5	U
cis-1,3-Dichloropropene	0.4 ⁺	5	U
Cyclohexane	NS	5	U
Dibromochloromethane	NS**	5	U
Dichlorodifluoromethane	5*	5	U
Ethyl Benzene	5*	5	U
Isopropylbenzene	5*	5	U
m/p-Xylenes	5*	10	U
Methyl Acetate	NS	5	U
Methyl tert-butyl Ether	10**	1.3	J
Methylcyclohexane	NS	5	U
Methylene Chloride	5*	5	U
n-Butylbenzene	5*	5	U
n-propylbenzene	5*	5	U
o-Xylene	5*	5	U
sec-Butylbenzene	5*	5	U
Styrene	5*	5	U
t-1,3-Dichloropropene	0.4 ⁺	5	U
tert-Butylbenzene	5*	5	U
Tetrachloroethene	5*	5	U
Toluene	5*	5	U
trans-1,2-Dichloroethene	5*	5	U
Trichloroethene	5*	5	U
Trichlorofluoromethane	5*	5	U
Vinyl Chloride	2	5	U

Table 6. SVOCs in Groundwater

Sample Location	6 NYCRR Part 703.5 Groundwater Standard	SB-22 on 1017 LSS	
Sample ID		LSS-MW-SB22(20)	
Lab Sample Number		H3995-26	
Sampling Date		7/8/2016	
Matrix		Water	
Units	ug/L	ug/L	
1,1-Biphenyl	5*	10	U
1,2,4,5-Tetrachlorobenzene	NS	10	U
1,4-Dioxane	NS	10	R
2,2-oxybis(1-Chloropropane)	NS	10	U
2,3,4,6-Tetrachlorophenol	NS	10	U
2,4,5-Trichlorophenol	NS	10	U
2,4,6-Trichlorophenol	NS	10	U
2,4-Dichlorophenol	1+	10	U
2,4-Dimethylphenol	1+	10	U
2,4-Dinitrophenol	1+	10	U
2,4-Dinitrotoluene	5*	10	U
2,6-Dinitrotoluene	5*	10	U
2-Chloronaphthalene	NS	10	U
2-Chlorophenol	NS	10	U
2-Methylnaphthalene	NS	10	U
2-Methylphenol	NS	10	U
2-Nitroaniline	5*	10	U
2-Nitrophenol	NS	10	U
3,3-Dichlorobenzidine	5*	10	U
3+4-Methylphenols	NS	10	U
3-Nitroaniline	5*	10	U
4,6-Dinitro-2-methylphenol	NS	10	U
4-Bromophenyl-phenylether	NS	10	U
4-Chloro-3-methylphenol	NS	10	U
4-Chloroaniline	5*	10	U
4-Chlorophenyl-phenylether	NS	10	U
4-Nitroaniline	5*	10	U
4-Nitrophenol	NS	10	U
Acenaphthene	NS	10	U
Acenaphthylene	NS	10	U
Acetophenone	NS	10	U
Anthracene	NS	10	U
Atrazine	7.5	10	U
Benzaldehyde	NS	10	U
Benzo(a)anthracene	NS	10	U
Benzo(a)pyrene	ND	10	U
Benzo(b)fluoranthene	NS	10	U
Benzo(g,h,i)perylene	NS	10	U
Benzo(k)fluoranthene	NS	10	U
bis(2-Chloroethoxy)methane	5*	10	U
bis(2-Chloroethyl)ether	1.0	10	U
Bis(2-ethylhexyl)phthalate	NS	10	U
Butylbenzylphthalate	NS	10	U
Caprolactam	NS	10	U
Carbazole	NS	10	U
Chrysene	NS	10	U
Dibenzo(a,h)anthracene	NS	10	U
Dibenzofuran	NS	10	U
Diethylphthalate	NS	10	U
Dimethylphthalate	NS	10	U
Di-n-butylphthalate	NS	10	U
Di-n-octyl phthalate	NS	10	U
Fluoranthene	NS	10	U
Fluorene	NS	10	U
Hexachlorobenzene	0.04	10	U
Hexachlorobutadiene	0.5	10	U
Hexachlorocyclopentadiene	5*	10	U
Hexachloroethane	5*	10	U
Indeno(1,2,3-cd)pyrene	NS	10	U
Isophorone	NS	10	U
Naphthalene	10**	10	U
Nitrobenzene	0.4	10	U
n-Nitroso-di-n-propylamine	NS	10	U
n-Nitrosodiphenylamine	NS	10	U
Pentachlorophenol	1+	10	U
Phenanthrene	NS	10	U
Phenol	1+	10	U
Pyrene	NS	10	U

Table 7. PCBs in Groundwater

Sample Location	6 NYCRR Part 703.5 Groundwater Standard	SB-22 on 1017 LSS	
Sample ID		LSS-MW-SB22(20)	
Lab Sample Number		H3995-26	
Sampling Date		7/8/2016	
Matrix		Water	
Units		ug/L	
Aroclor-1016	0.09	0.5	U
Aroclor-1221	0.09	0.5	U
Aroclor-1232	0.09	0.5	U
Aroclor-1242	0.09	0.5	U
Aroclor-1248	0.09	0.5	U
Aroclor-1254	0.09	0.5	U
Aroclor-1262	0.09	0.5	U
Aroclor-1268	0.09	0.5	U
Aroclor-1260	0.09	0.5	U

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Table 8. Metals in Groundwater

Sample Location	6 NYCRR Part 703.5 Groundwater Standard	SB-22 on 1017 LSS	
Sample ID		LSS-MW-SB22(20)	LSS-MW-SB22(20)
Lab Sample Number		H3995-26	H3995-32
Sampling Date		7/8/2016	7/8/2016
Matrix		WATER	WATER
Units		ug/L	ug/L
		Totals	Dissolved
Aluminum	NS	91700	126
Antimony	3	25 U	25 U
Arsenic	25	43.7	4.37 J
Barium	1,000	1860	165
Beryllium	NS	4.28	3 U
Cadmium	5	5.56	3 U
Calcium	NS	124000	112000
Chromium	50	354	5 U
Cobalt	NS	35.3	15 U
Copper	200	295	4.2 J
Iron	300*	117000	225
Lead	25	828	6 U
Magnesium	NS	39600	29200
Manganese	300*	1910	1070
Mercury	0.7	4.94	0.2 U
Nickel	100	71.2	20 U
Potassium	NS	27300	17100
Selenium	10	10 U	10 U
Silver	50	5 U	5 U
Sodium	20,000	68900	71500
Thallium	NS	20 U	20 U
Vanadium	NS	103	20 U
Zinc	NS	1500	7.14 J

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Table 9. VOCs in Soil Vapor and Outdoor Air

Building #/LLS Address	Building 6 1017 LSS	Office 1017 LSS	Building 4 1011 LSS	Building 3 1013 LSS	1013 LSS	1013 LSS	Former L&L Site 1005 LSS 1009 LSS		Outdoor Air (1011 LSS)	Select NIOSH permissible exposure limits (PELs)
Sample Location ID	SV-01	SV-02	SV-03	SV-04	SV-05	SV-06	SV-07	SV-08	OA-01	
Sample Type	Subslab Vapor	Subslab Vapor	Subslab Vapor	Subslab Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Outdoor Air	
Sample ID	LSS-SV-SV01	LSS-SV-SV02	LSS-SV-SV03	LSS-SV-SV04	LSS-SV-SV05	LSS-SV-SV06	LSS-SV-SV07	LSS-SV-SV08	LSS-OA-OA01	
Lab Sample Number	H4043-01	H4043-02	H4043-03	H4043-04	H4043-05	H4043-06	H4043-07	H4043-08	H4043-09	
Sampling Date	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	
Matrix	Air	Air	Air	Air	Air	Air	Air	Air	Air	
Units	µg/m ³				µg/m ³				µg/m ³	µg/m ³
NYSDOH SVI Matrices Compounds										
1,1,1-Trichloroethane ^(M2)	13.1	19.1	0.16 U	1.31	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	
1,1-Dichloroethene ^(M2)	1.98 U	2.26	1.98 U	1.98 U	1.98 U	0.83 J	1.98 U	1.98 U	1.98 U	
Carbon Tetrachloride ^(M1)	0.38	0.19 U	0.38	0.38	0.19 U	0.19 U	0.19 UJ	0.19 UJ	0.38	
cis-1,2-Dichloroethene ^(M2)	1.98 U	13.5	1.98 U	2.14	1.98 U	3.13	1.98 U	1.98 U	1.98 U	
Tetrachloroethene ^(M2)	4.07	35.9	0.2 U	6.78	5.9	130 D	3.39 J	0.2 UJ	0.2 U	
Trichloroethene ^(M1)	1.18	6.99	0.32	1.13	2.74	36.5	0.16 UJ	0.16 UJ	0.16 U	
Vinyl Chloride ^(M1)	0.08 U	7.92	0.15	0.2	0.08 U	1.84	0.08 U	0.08 U	0.08 U	
Additional TO-15 VOCs										
1,1,2,2-Tetrachloroethane	3.43 U	3.43 UJ	3.43 U	3.43 U	3.43 U	3.43 U	3.43 U	3.43 U	3.43 U	
1,1,2-Trichloroethane	2.73 U	2.73 U	2.73 U	2.73 U	2.73 U	2.73 U	2.73 UJ	2.73 UJ	2.73 U	
1,1,2-Trichlorotrifluoroethane	1.3 J	3.83 U	3.83 U	1.69 J	3.83 U	3.07 J	1.46 J	3.83 UJ	3.83 U	
1,1-Dichloroethane	2.15	12.1	2.02 U	2.02 U	2.02 U	2.02 U	2.02 U	2.02 U	2.02 U	
1,2,4-Trichlorobenzene	3.71 U	3.71 UJ	3.71 U	3.71 U	3.71 U	3.71 U	3.71 U	3.71 U	3.71 U	
1,2,4-Trimethylbenzene	1.82 J	1.77 J	4.57	2.65	3.34	4.28	4.67	6.88	0.93 J	
1,2-Dibromoethane	3.84 U	3.84 U	3.84 U	3.84 U	3.84 U	3.84 U	3.84 UJ	3.84 UJ	3.84 U	
1,2-Dichlorobenzene	3.01 U	3.01 UJ	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	
1,2-Dichloroethane	2.02 U	2.02 U	2.02 U	2.02 U	2.02 U	2.02 U	0.69 J	2.02 UJ	2.02 U	
1,2-Dichloropropane	2.31 U	2.31 U	2.31 U	2.31 U	2.31 U	2.31 U	2.31 UJ	2.31 UJ	2.31 U	
1,3,5-Trimethylbenzene	0.54 J	0.59 J	1.33 J	0.84 J	1.28 J	2.51	1.62 J	3.1	2.46 U	
1,3-Butadiene	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	1.11 U	
1,3-Dichlorobenzene	3.01 U	3.01 UJ	3.01 U	3.01 U	4.21	1.56 J	2.04 J	0.84 J	3.01 U	
1,4-Dichlorobenzene	3.01 U	3.01 UJ	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	3.01 U	
1,4-Dioxane	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	
2,2,4-Trimethylpentane	2.38	22.4	19.6	24.3	23.4	2.34 U	383 J	887 J	0.28 J	
2-Butanone	37.2	22.4	41.9 D	43.9	59.9 D	109 D	34.2 J	25.4 J	5.6	590,000
2-Chlorotoluene	2.59 U	2.59 UJ	2.59 U	2.59 U	2.59 U	2.59 U	2.59 U	2.59 U	2.59 U	
4-Ethyltoluene	0.59 J	2.46 UJ	1.47 J	0.93 J	1.18 J	1.67 J	2.11 J	4.92	2.46 U	
4-Methyl-2-Pentanone	1.15 J	2.05 U	4.02	1.76 J	1.97 J	2.05 U	2.05 UJ	2.05 UJ	2.05 U	
Acetone	261 DB	101 DB	69.1 DB	546 DB	475 DB	593 DB	1.19 U	1.19 U	18.3 B	
Allyl Chloride	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U	
Benzene	2.46	12.5	2.04	8.63	21.1	18.5	113 J	220 J	1.6 U	
Bromodichloromethane	1.07 J	3.35 U	3.35 U	3.35 U	3.35 U	3.35 U	3.35 UJ	3.35 UJ	3.35 U	

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Table 9. VOCs in Soil Vapor and Outdoor Air

Building #/LLS Address	Building 6 1017 LSS	Office 1017 LSS	Building 4 1011 LSS	Building 3 1013 LSS	1013 LSS	1013 LSS	Former L&L Site 1005 LSS 1009 LSS		Outdoor Air (1011 LSS)	Select NIOSH permissible exposure limits (PELs)
Sample Location ID	SV-01	SV-02	SV-03	SV-04	SV-05	SV-06	SV-07	SV-08	OA-01	
Sample Type	Subslab Vapor	Subslab Vapor	Subslab Vapor	Subslab Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Outdoor Air	
Sample ID	LSS-SV-SV01	LSS-SV-SV02	LSS-SV-SV03	LSS-SV-SV04	LSS-SV-SV05	LSS-SV-SV06	LSS-SV-SV07	LSS-SV-SV08	LSS-OA-OA01	
Lab Sample Number	H4043-01	H4043-02	H4043-03	H4043-04	H4043-05	H4043-06	H4043-07	H4043-08	H4043-09	
Sampling Date	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	7/11/2016	
Matrix	Air	Air	Air	Air	Air	Air	Air	Air	Air	
Units	µg/m ³				µg/m ³				µg/m ³	
Bromoethene	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	2.19 U	
Bromoform	5.17 U	5.17 U	5.17 U	5.17 U	5.17 U	5.17 U	5.17 UJ	5.17 UJ	5.17 U	
Bromomethane	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	
Carbon Disulfide	10.6	1.74	2.09	4.36	103 D	119 D	16.8	12.5	1.56 U	
Chlorobenzene	2.3 U	2.3 U	2.3 UJ	2.3 U	2.3 U	6.91	0.92 J	1.47 J	2.3 U	
Chloroethane	1.32 U	1.98	1.32 U	1.03 J	1.32 U	1.16 J	1.32 U	1.32 U	1.32 U	
Chloroform	24.9	0.93 J	0.54 J	9.28	6.35	9.28	2.2 J	2.44 U	2.44 U	
Chloromethane	0.58 J	1.03 U	1.09	1.07	1.18	0.99 J	0.76 J	0.29 J	1.2	
cis-1,3-Dichloropropene	2.27 U	2.27 U	2.27 U	2.27 U	2.27 U	2.27 U	2.27 UJ	2.27 UJ	2.27 U	
Cyclohexane	5.51	11.7	9.64	4.82	8.95	35.8	50.3 D	123 D	1.72 U	1,050,000
Dibromochloromethane	4.26 U	4.26 U	4.26 U	4.26 U	4.26 U	4.26 U	4.26 UJ	4.26 UJ	4.26 U	
Dichlorodifluoromethane	1.68 J	5933 D	1.83 J	6.43	11.4	2.03 J	2.03 J	0.79 J	1.24 J	4,950,000
Dichlorotetrafluoroethane	3.49 U	3.49 U	3.49 U	3.49 U	3.49 U	3.49 U	3.49 U	3.49 U	3.49 U	
Ethyl Benzene	2.48	2.39 J	6.52	4	6.95	13.0	37.4	89.9 D	0.61 J	435,000
Heptane	2.58	46.3	6.97	11.1	10.2	32.8	85.6 J	186 J	0.49 J	2,000,000
Hexachloro-1,3-Butadiene	5.33 U	5.33 U	5.33 U	5.33 U	5.33 U	5.33 U	5.33 UJ	5.33 UJ	5.33 U	
Hexane	16.2	15.5	21.2	18.3	15.5	20.8	164 J	387 J	2.29	1,800,000
m/p-Xylene	9.12	6.52 J	23.0	12.6	19.1	32.1	92.5	242 D	2.3 J	435,000
Methyl Methacrylate	2.05 U	2.05 U	0.53 J	2.05 U	2.05 U	2.05 U	2.05 UJ	2.05 UJ	2.05 U	
Methyl tert-Butyl Ether	1.8 U	468 D	1.8 U	1.8 U	0.43 J	1.8 U	1.3 J	1.8 U	1.8 U	
Methylene Chloride	23.6	3.06	59.4 D	8.69	5.21	9.73	1.74 U	1.74 U	9.73	
Naphthalene	3.2	4.77 J	1.1 J	2.52 J	6.29	10.5	9.44	7.34	2.62 U	
o-Xylene	3.3	2.35 J	8.25	3.95	6.95	12.2	28.7	71.2 D	0.91 J	435,000
Styrene	2.38 J-	1.7 J-	9.37 J-	3.7 J-	3.07 J-	4.68 J-	3.19 J-	2.98 J-	2.13 UJ	
t-1,3-Dichloropropene	2.27 U	2.27 U	2.27 U	2.27 U	2.27 U	2.27 U	2.27 UJ	2.27 UJ	2.27 U	
tert-Butyl alcohol	11.5	7.88	4.85	10	39.4	29.4	32.1 J	28.8 J	1.52 U	
Tetrahydrofuran	92.3 D	111 D	35.4	67.2 D	162 D	50.4 D	126 J	79 J	1.47 U	590,000
Toluene	36.9	33.9	78.8 D	52.8	64.8 D	92.3 D	452 J	1017 J	10.9	750,000
trans-1,2-Dichloroethene	1.98 U	0.79 J	1.98 U	1.98 U	1.98 U	1.19 J	1.98 UJ	1.98 UJ	1.98 U	
Trichlorofluoromethane	146 D	0.62 J	11.2	730 D	59.6	147 D	17.4 J	2.36 J	1.52 J	5,600,000

NOTES:

^(M1) NYSDOH SVI Guidance Matrix 1. Subslab vapor guidance levels: <5 NFA

^(M2) NYSDOH SVI Guidance Matrix 2. Subslab vapor guidance levels: <100 NFA

Indicates concentration greater than NYSDOH guidance level for respective SVI Matrix

Indicates elevated concentration reported

Table 10. Equipment Blank Results

Sample Type	Equipment Blanks			
Sample ID	LSS-EB01	LSS-EB02	LSS-EB03	LSS-EB04
Lab Sample Number	H3951-24	H3972-18	H3995-14	H3995-29
Sampling Date	7/5/2016	7/6/2016	7/7/2016	7/8/2016
Matrix	Water	Water	Water	Water
Units	ug/l	ug/l	ug/L	ug/L
VOCs				
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
1,1,2-Trichlorotrifluoroethane	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	5 U	5 U	5 U	5 U
1,2-Dibromo-3-Chloropropane	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U
1,3,5-Trimethylbenzene	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U
1,4-Dioxane	100 R	100 R	100 R	100 U
2-Butanone	25 U	25 U	25 U	25 U
2-Hexanone	25 U	25 U	25 U	25 U
4-Methyl-2-Pentanone	25 U	25 U	25 U	25 U
Acetone	25 U	25 U	25 U	25 U
Benzene	5 U	5 U	5 U	5 U
Bromochloromethane	5 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U
Carbon Disulfide	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Cyclohexane	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	5 U	5 U	5 U
Ethyl Benzene	5 U	5 U	5 U	5 U
Isopropylbenzene	5 U	5 U	5 U	5 U
m/p-Xylenes	10 U	10 U	10 U	10 U
Methyl Acetate	5 U	5 U	5 U	5 U
Methyl tert-butyl Ether	5 U	5 U	5 U	5 U
Methylcyclohexane	5 U	5 U	5 U	5 U
Methylene Chloride	5 U	5 U	5 U	5 U
n-Butylbenzene	5 U	5 U	5 U	5 U
n-propylbenzene	5 U	5 U	5 U	5 U
o-Xylene	5 U	5 U	5 U	5 U
sec-Butylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
t-1,3-Dichloropropene	5 U	5 U	5 U	5 U
tert-Butylbenzene	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U
Vinyl Chloride	5 U	5 U	5 U	5 U
SVOCs				
1,1-Biphenyl	10.1 U	10.1 U	10.2 U	10 U
1,2,4,5-Tetrachlorobenzene	10.1 U	10.1 U	10.2 U	10 U
1,4-Dioxane	10.1 R	10.1 R	10.2 R	10 U
2,2-oxybis(1-Chloropropane)	10.1 U	10.1 U	10.2 U	10 U
2,3,4,6-Tetrachlorophenol	10.1 U	10.1 U	10.2 U	10 U
2,4,5-Trichlorophenol	10.1 U	10.1 U	10.2 U	10 U
2,4,6-Trichlorophenol	10.1 U	10.1 U	10.2 U	10 U
2,4-Dichlorophenol	10.1 U	10.1 U	10.2 U	10 U
2,4-Dimethylphenol	10.1 U	10.1 U	10.2 U	10 U
2,4-Dinitrophenol	10.1 U	10.1 U	10.2 U	10 U
2,4-Dinitrotoluene	10.1 U	10.1 U	10.2 U	10 U
2,6-Dinitrotoluene	10.1 U	10.1 U	10.2 U	10 U
2-Chloronaphthalene	10.1 U	10.1 U	10.2 U	10 U
2-Chlorophenol	10.1 U	10.1 U	10.2 U	10 U
2-Methylnaphthalene	10.1 U	10.1 U	10.2 U	10 U
2-Methylphenol	10.1 U	10.1 U	10.2 U	10 U
2-Nitroaniline	10.1 U	10.1 U	10.2 U	10 U
2-Nitrophenol	10.1 U	10.1 U	10.2 U	10 U
3,3-Dichlorobenzidine	10.1 U	10.1 U	10.2 U	10 U
3+4-Methylphenols	10.1 U	10.1 U	10.2 U	10 U
3-Nitroaniline	10.1 U	10.1 U	10.2 U	10 U
4,6-Dinitro-2-methylphenol	10.1 U	10.1 U	10.2 U	10 U
4-Bromophenyl-phenylether	10.1 U	10.1 U	10.2 U	10 U
4-Chloro-3-methylphenol	10.1 U	10.1 U	10.2 U	10 U
4-Chloroaniline	10.1 U	10.1 U	10.2 U	10 U
4-Chlorophenyl-phenylether	10.1 U	10.1 U	10.2 U	10 U

Table 10. Equipment Blank Results

Sample Type	Equipment Blanks			
Sample ID	LSS-EB01	LSS-EB02	LSS-EB03	LSS-EB04
Lab Sample Number	H3951-24	H3972-18	H3995-14	H3995-29
Sampling Date	7/5/2016	7/6/2016	7/7/2016	7/8/2016
Matrix	Water	Water	Water	Water
Units	ug/l	ug/l	ug/L	ug/L
4-Nitroaniline	10.1 U	10.1 U	10.2 U	10 U
4-Nitrophenol	10.1 U	10.1 U	10.2 U	10 U
Acenaphthene	10.1 U	10.1 U	10.2 U	10 U
Acenaphthylene	10.1 U	10.1 U	10.2 U	10 U
Acetophenone	10.1 U	10.1 U	10.2 U	10 U
Anthracene	10.1 U	10.1 U	10.2 U	10 U
Atrazine	10.1 U	10.1 U	10.2 U	10 U
Benzaldehyde	10.1 U	10.1 U	10.2 U	10 U
Benzo(a)anthracene	10.1 U	10.1 U	10.2 U	10 U
Benzo(a)pyrene	10.1 U	10.1 U	10.2 U	10 U
Benzo(b)fluoranthene	10.1 U	10.1 U	10.2 U	10 U
Benzo(g,h,i)perylene	10.1 U	10.1 U	10.2 U	10 U
Benzo(k)fluoranthene	10.1 U	10.1 U	10.2 U	10 U
bis(2-Chloroethoxy)methane	10.1 U	10.1 U	10.2 U	10 U
bis(2-Chloroethyl)ether	10.1 U	10.1 U	10.2 U	10 U
Bis(2-ethylhexyl)phthalate	10.1 U	10.1 U	10.2 U	10 U
Butylbenzylphthalate	10.1 U	10.1 U	10.2 U	10 U
Caprolactam	10.1 U	10.1 U	10.2 U	10 U
Carbazole	10.1 U	10.1 U	10.2 U	10 U
Chrysene	10.1 U	10.1 U	10.2 U	10 U
Dibenzo(a,h)anthracene	10.1 U	10.1 U	10.2 U	10 U
Dibenzofuran	10.1 U	10.1 U	10.2 U	10 U
Diethylphthalate	10.1 U	10.1 U	10.2 U	10 U
Dimethylphthalate	10.1 U	10.1 U	10.2 U	10 U
Di-n-butylphthalate	10.1 U	10.1 U	10.2 U	10 U
Di-n-octyl phthalate	10.1 U	10.1 U	10.2 U	10 U
Fluoranthene	10.1 U	10.1 U	10.2 U	10 U
Fluorene	10.1 U	10.1 U	10.2 U	10 U
Hexachlorobenzene	10.1 U	10.1 U	10.2 U	10 U
Hexachlorobutadiene	10.1 U	10.1 U	10.2 U	10 U
Hexachlorocyclopentadiene	10.1 U	10.1 U	10.2 U	10 U
Hexachloroethane	10.1 U	10.1 U	10.2 U	10 U
Indeno(1,2,3-cd)pyrene	10.1 U	10.1 U	10.2 U	10 U
Isophorone	10.1 U	10.1 U	10.2 U	10 U
Naphthalene	10.1 U	10.1 U	10.2 U	10 U
Nitrobenzene	10.1 U	10.1 U	10.2 U	10 U
n-Nitroso-di-n-propylamine	10.1 U	10.1 U	10.2 U	10 U
n-Nitrosodiphenylamine	10.1 U	10.1 U	10.2 U	10 U
Pentachlorophenol	10.1 U	10.1 U	10.2 U	10 U
Phenanthrene	10.1 U	10.1 U	10.2 U	10 U
Phenol	10.1 U	10.1 U	10.2 U	10 U
Pyrene	10.1 U	10.1 U	10.2 U	10 U
PCBs				
Aroclor-1016	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1221	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1232	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1242	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1248	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1254	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1262	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1268	0.516 U	0.521 U	0.51 U	0.5 U
Aroclor-1260	0.516 U	0.521 U	0.51 U	0.5 U
Metals				
Aluminum	87.5	50 U	50 U	50 U
Antimony	25 U	25 U	25 U	25 U
Arsenic	10 U	10 U	10 U	10 U
Barium	50 U	50 U	50 U	50 U
Beryllium	3 U	3 U	3 U	3 U
Cadmium	3 U	3 U	3 U	3 U
Calcium	145 J	45 J	1000 U	42.1 J
Chromium	5.11	5.56	5 U	5 U
Cobalt	15 U	15 U	15 U	15 U
Copper	10 U	10 U	10 U	10 U
Iron	197	25.8 J	50 U	50 U
Lead	2.03 J	6 U	6 U	6 U
Magnesium	35.4 J	1000 U	1000 U	1000 U
Manganese	3.31 J	10 U	10 U	10 U
Mercury	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	20 U	20 U	20 U	20 U
Potassium	66.4 J	1000 U	1000 U	1000 U
Selenium	10 U	10 U	10 U	10 U
Silver	5 U	5 U	5 U	5 U
Sodium	88.4 J	24.1 J	1000 U	1000 U
Thallium	20 U	20 U	20 U	20 U
Vanadium	20 U	20 U	20 U	20 U
Zinc	8.77 J	20 U	20 U	20 U

Table 11. Trip Blank Results

Sample Type	Trip Blanks					
Sample ID	LSS-TB01		LSS-TB02		LSS-TB03	
Lab Sample Number	H3951-25		H3972-19		H3995-30	
Sampling Date	6/28/2016		6/28/2016		7/8/2016	
Matrix	Water		Water		Water	
Units	ug/l		ug/l		ug/L	
VOCs						
1,1,1-Trichloroethane	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U
1,1,2-Trichlorotrifluoroethane	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U
1,1-Dichloroethene	5	U	5	U	5	U
1,2,3-Trichlorobenzene	5	U	5	U	5	U
1,2,4-Trichlorobenzene	5	U	5	U	5	U
1,2,4-Trimethylbenzene	5	U	5	U	5	U
1,2-Dibromo-3-Chloropropane	5	U	5	U	5	U
1,2-Dibromoethane	5	U	5	U	5	U
1,2-Dichlorobenzene	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U
1,3,5-Trimethylbenzene	5	U	5	U	5	U
1,3-Dichlorobenzene	5	U	5	U	5	U
1,4-Dichlorobenzene	5	U	5	U	5	U
1,4-Dioxane	100	R	100	U	100	R
2-Butanone	25	U	25	U	25	U
2-Hexanone	25	U	25	U	25	U
4-Methyl-2-Pentanone	25	U	25	U	25	U
Acetone	25	U	25	U	25	U
Benzene	5	U	5	U	5	U
Bromochloromethane	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U
Bromomethane	5	U	5	U	5	U
Carbon Disulfide	5	U	5	U	5	U
Carbon Tetrachloride	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U
Chloroethane	5	U	5	U	5	U
Chloroform	5	U	5	U	5	U
Chloromethane	5	U	5	U	5	U
cis-1,2-Dichloroethene	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U
Cyclohexane	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U
Dichlorodifluoromethane	5	U	5	U	5	U
Ethyl Benzene	5	U	5	U	5	U
Isopropylbenzene	5	U	5	U	5	U
m/p-Xylenes	10	U	10	U	10	U
Methyl Acetate	5	U	5	U	5	U
Methyl tert-butyl Ether	5	U	5	U	5	U
Methylcyclohexane	5	U	5	U	5	U
Methylene Chloride	5	U	5	U	5	U
n-Butylbenzene	5	U	5	U	5	U
n-propylbenzene	5	U	5	U	5	U
o-Xylene	5	U	5	U	5	U
sec-Butylbenzene	5	U	5	U	5	U
Styrene	5	U	5	U	5	U
t-1,3-Dichloropropene	5	U	5	U	5	U
tert-Butylbenzene	5	U	5	U	5	U
Tetrachloroethene	5	U	5	U	5	U
Toluene	5	U	5	U	5	U
trans-1,2-Dichloroethene	5	U	5	U	5	U
Trichloroethene	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U
Vinyl Chloride	5	U	5	U	5	U

Appendix C: Laboratory Results Summary Tables for 2014 Phase II Investigation

Table 1
Summary of Laboratory Results
Volatile Organic Compounds (VOCs) in Soil Samples
Former L L Salvage Site at
1005 and 1009 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives	LL-SB-1(0-2)	LL-SB-1(0-2)RE	LL-SB-1(4-8)	LL-SB-1(4-8)RE	LL-SB-2(0-2)	LL-SB-2(0-2)RE	LL-SB-2(4-8)	LL-SB-2(4-8)RE	LL-SB-3(0-2)	LL-SB-4(0-2)	LL-SB-4(0-2)RE	LL-SB-4(4-6.8)	LL-SB-5(0-2)	LL-SB-5(6-8)	LL-SB-6(0-2)
Lab Sample Number		F2341-01	F2341-01RE	F2341-02	F2341-02RE	F2341-03	F2341-03RE	F2341-04	F2341-04RE	F2341-05	F2341-06	F2341-06RE	F2341-07	F2341-08	F2341-09	F2341-10
Sampling Date		5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/13/2014
ANALYTE	Unrestricted	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1,1,1-Trichloroethane	0.68	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,1,2,2-Tetrachloroethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,1,2-Trichloroethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,1,2-Trichlorotrifluoroethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,1-Dichloroethane	0.27	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,1-Dichloroethene	0.33	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2,3-Trichlorobenzene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2,4-Trichlorobenzene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2-Dibromo-3-Chloropropane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2-Dibromoethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2-Dichlorobenzene	1.1	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2-Dichloroethane	0.02	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,2-Dichloropropane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,3-Dichlorobenzene	2.4	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,4-Dichlorobenzene	1.8	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
1,4-Dioxane	0.1	0.110 R	0.110 U	0.0918 R	0.130 U	0.0885 R	0.120 U	0.0979 R	0.0991 U	0.100 R	0.120 R	0.120 U	0.0965 R	0.110 R	0.0951 R	0.0875 R
2-Butanone	0.12	0.0268 U	0.0285 U	0.0230 U	0.0320 U	0.0221 U	0.0300 U	0.0245 U	0.0248 U	0.0256 U	0.0293 U	0.0289 U	0.0241 U	0.0268 U	0.0238 U	0.0219 U
2-Hexanone	NS	0.0268 U	0.0285 U	0.0230 U	0.0320 U	0.0221 U	0.0300 U	0.0245 U	0.0248 U	0.0256 U	0.0293 U	0.0289 U	0.0241 U	0.0268 U	0.0238 U	0.0219 U
4-Methyl-2-Pentanone	NS	0.0268 U	0.0285 U	0.0230 U	0.0320 U	0.0221 U	0.0300 U	0.0245 U	0.0248 U	0.0256 U	0.0293 U	0.0289 U	0.0241 U	0.0268 U	0.0238 U	0.0219 U
Acetone	0.05	0.0092 J+	0.0285 U	0.0230 U	0.0103 J+	0.0221 U	0.0300 U	0.0167 J	0.0248 U	0.0256 U	0.0293 U	0.0289 U	0.0120 J	0.0268 U	0.0194 J	0.0219 U
Benzene	0.06	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Bromochloromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Bromodichloromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Bromoform	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Bromomethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Carbon Disulfide	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Carbon Tetrachloride	0.76	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Chlorobenzene	1.1	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Chloroethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Chloroform	0.37	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Chloromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
cis-1,2-Dichloroethene	0.25	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
cis-1,3-Dichloropropene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Cyclohexane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Dibromochloromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Dichlorodifluoromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Ethyl Benzene	1	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Isopropylbenzene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
m/p-Xylenes	0.26+	0.0107 U	0.0114 U	0.0092 U	0.0128 U	0.0088 U	0.0120 U	0.0098 U	0.0099 U	0.0102 U	0.0117 U	0.0116 U	0.0097 U	0.0107 U	0.0095 U	0.0087 U
Methyl Acetate	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Methyl tert-butyl Ether	0.93	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Methylcyclohexane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Methylene Chloride	0.05	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0014 J	0.0060 U	0.0049 U	0.0011 J	0.0051 U	0.0059 U	0.0012 J+	0.0048 U	0.0054 U	0.0048 U	0.0044 U
o-Xylene	0.26+	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Styrene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
t-1,3-Dichloropropene	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Tetrachloroethene	1.3	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Toluene	0.7	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
trans-1,2-Dichloroethene	0.19	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Trichloroethene	0.47	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Trichlorofluoromethane	NS	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U
Vinyl Chloride	0.02	0.0054 U	0.0057 U	0.0046 U	0.0064 U	0.0044 U	0.0060 U	0.0049 U	0.0050 U	0.0051 U	0.0059 U	0.0058 U	0.0048 U	0.0054 U	0.0048 U	0.0044 U

NOTES:
All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)
Yellow highlighted results indicates detected concentration exceeds the "Unrestricted" soil cleanup objective.
U - The analyte was not detected above the laboratory method detection limit.
J - Indicates the analyte was detected below the reporting limit but greater than or equal to the method detection limit; therefore, the result is an estimated concentration.
NS - No standard exists for this compound.

Table 1
Summary of Laboratory Results
Volatile Organic Compounds (VOCs) in Soil Samples
Former L L Salvage Site at
1005 and 1009 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives	LL-SB-6(0-2)RE	LL-SB-6A(8-10)	LL-SB-6A(8-10)RE	LL-SB-7(0-2)	LL-SB-8(0-2)	LL-SB-8(0-2)RE	LL-SB-8(4-6)	LL-SB-8(4-6)RE	LL-SB-9(0-2)	LL-SB-9(0-2)RE	LL-SB-9(4-8)
Lab Sample Number		F2341-10RE	F2341-11	F2341-11RE	F2341-12	F2341-13	F2341-13RE	F2341-14	F2341-14RE	F2341-15	F2341-15RE	F2341-16
Sampling Date		5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014
ANALYTE	Unrestricted	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1,1,1-Trichloroethane	0.68	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,1,2,2-Tetrachloroethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,1,2-Trichloroethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,1,2-Trichlorotrifluoroethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,1-Dichloroethane	0.27	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,1-Dichloroethene	0.33	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,2,3-Trichlorobenzene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,2,4-Trichlorobenzene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,2-Dibromo-3-Chloropropane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,2-Dibromoethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,2-Dichlorobenzene	1.1	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,2-Dichloroethane	0.02	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,2-Dichloropropane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
1,3-Dichlorobenzene	2.4	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,4-Dichlorobenzene	1.8	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
1,4-Dioxane	0.1	0.0985 U	0.0936 R	0.110 U	0.0972 R	0.0959 R	0.0904 U	0.0906 R	0.0847 U	0.110 R	0.0959 U	0.0915 R
2-Butanone	0.12	0.0246 U	0.0234 U	0.0265 U	0.0243 U	0.0240 U	0.0226 U	0.0226 U	0.0212 U	0.0280 U	0.0240 U	0.0229 UJ
2-Hexanone	NS	0.0246 U	0.0234 U	0.0265 U	0.0243 U	0.0240 U	0.0226 U	0.0226 U	0.0212 U	0.0280 U	0.0240 U	0.0229 UJ
4-Methyl-2-Pentanone	NS	0.0246 U	0.0234 U	0.0265 U	0.0243 U	0.0240 U	0.0226 U	0.0226 U	0.0212 U	0.0280 U	0.0115 J	0.0101 J-
Acetone	0.05	0.0246 U	0.0234 U	0.0080 J+	0.0243 U	0.0053 J	0.0226 U	0.0226 U	0.0212 U	0.0280 U	0.0240 U	0.0229 UJ
Benzene	0.06	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Bromochloromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Bromodichloromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Bromoform	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Bromomethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Carbon Disulfide	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Carbon Tetrachloride	0.76	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Chlorobenzene	1.1	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Chloroethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Chloroform	0.37	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Chloromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
cis-1,2-Dichloroethene	0.25	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
cis-1,3-Dichloropropene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Cyclohexane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Dibromochloromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Dichlorodifluoromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Ethyl Benzene	1	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0033 J	0.0046 UJ
Isopropylbenzene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 UJ	0.0048 U	0.0046 UJ
m/p-Xylenes	0.26+	0.0099 U	0.0094 U	0.0106 U	0.0097 U	0.0096 U	0.0090 U	0.0091 U	0.0085 U	0.0112 U	0.0096 U	0.0091 UJ
Methyl Acetate	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Methyl tert-butyl Ether	0.93	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Methylcyclohexane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Methylene Chloride	0.05	0.0049 U	0.0047 U	0.0016 J+	0.0011 J	0.0011 J	0.0045 U	0.0045 U	0.0042 U	0.0014 J	0.0048 U	0.0046 UJ
o-Xylene	0.26+	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Styrene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0034 J	0.0046 UJ
t-1,3-Dichloropropene	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Tetrachloroethene	1.3	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Toluene	0.7	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0015 J	0.0046 UJ
trans-1,2-Dichloroethene	0.19	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Trichloroethene	0.47	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Trichlorofluoromethane	NS	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ
Vinyl Chloride	0.02	0.0049 U	0.0047 U	0.0053 U	0.0049 U	0.0048 U	0.0045 U	0.0045 U	0.0042 U	0.0056 U	0.0048 U	0.0046 UJ

NOTES:

All data are reported in milligrams per kilogram (mg/kg) = part
Yellow highlighted results indicates detected concentration ex
U - The analyte was not detected above the laboratory metho
J - Indicates the analyte was detected below the reporting lir
NS - No standard exists for this compound.

Table 2
Summary of Laboratory Results
Semi-Volatile Organic Compounds (SVOCs) in Soil Samples
Former L L Salvage Site at
1005 and 1009 Lower South Street, Peekskill, NY

Sample ID	YCCR Part 375 Soil Cleanup		LL-SB-1(0-2)	LL-SB-1(4-8)	LL-SB-2(0-2)	LL-SB-2(4-8)	LL-SB-3(0-2)	LL-SB-4(0-2)	LL-SB-4(4-6.8)	LL-SB-5(0-2)	LL-SB-5(6-8)	LL-SB-6(0-2)	LL-SB-6A(8-10)	LL-SB-7(0-2)	LL-SB-8(0-2)	LL-SB-8(4-6)	LL-SB-9(0-2)	LL-SB-9(4-8)
Lab Sample Number			F2341-01	F2341-02	F2341-03	F2341-04	F2341-05	F2341-06	F2341-07	F2341-08	F2341-09	F2341-10	F2341-11	F2341-12	F2341-13	F2341-14	F2341-15	F2341-16
Sampling Date			5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014
Matrix	Unrestricted	Restricted Use	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE		Restricted Residential	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1-Biphenyl	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.120 J	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
1,2,4,5-Tetrachlorobenzene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,2-oxybis(1-Chloropropane)	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4,5-Trichlorophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4,6-Trichlorophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4-Dichlorophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4-Dimethylphenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4-Dinitrophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,4-Dinitrotoluene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2,6-Dinitrotoluene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Chloronaphthalene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Chlorophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Methylnaphthalene	NS	NS	0.370 U	0.350 U	0.41	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.51	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Methylphenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Nitroaniline	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
2-Nitrophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
3,3-Dichlorobenzidine	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
3+4-Methylphenols	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
3-Nitroaniline	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4,6-Dinitro-2-methylphenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Bromophenyl-phenylether	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Chloro-3-methylphenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Chloroaniline	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Chlorophenyl-phenylether	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Nitroaniline	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
4-Nitrophenol	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Acenaphthene	20	100	0.0880 J	0.350 U	0.85	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.8	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Acenaphthylene	100	100	0.98	0.350 U	3.10 JD	1.10 J	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	4.50 JD	0.69	0.350 U	0.360 U	0.0773 J	0.360 U	0.360 U
Acetophenone	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Anthracene	100	100	1.1	0.350 U	5.20 JD	3.80 U	0.420 U	0.430 U	0.350 U	0.0758 J	0.350 U	3.60 JD	0.57	0.350 U	0.360 U	0.360 U	0.360 U	0.170 J
Atrazine	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Benzaldehyde	NS	NS	0.370 R	0.350 R	0.370 R	3.80 R	0.420 R	0.430 R	0.350 R	0.370 R	0.350 R	0.360 R	0.360 R	0.350 R	0.360 R	0.360 R	0.360 R	0.360 R
Benzo(a)anthracene	1	1	2.4	0.350 U	13.0 D	3.80 U	0.160 J	0.430 U	0.350 U	0.200 J	0.350 U	12.6 D	1.5	0.350 U	0.130 J	0.140 J	0.360 U	0.64
Benzo(a)pyrene	1	1	2	0.350 U	11.0 D	3.80 U	0.140 J	0.430 U	0.350 U	0.220 J	0.350 U	18.7 D	1.3	0.350 U	0.120 J	0.140 J	0.360 U	0.57
Benzo(b)fluoranthene	1	1	2	0.350 U	14.8 D	0.800 J	0.180 J	0.430 U	0.350 U	0.280 J	0.350 U	23.3 D	1.5	0.350 U	0.150 J	0.160 J	0.120 J	0.84
Benzo(g,h,i)perylene	100	100	1.3	0.350 U	7.60 D	3.80 U	0.110 J	0.430 U	0.350 U	0.170 J	0.350 U	14.1 D	0.78	0.350 U	0.0935 J	0.120 J	0.190 J	0.42
Benzo(k)fluoranthene	0.8	3.9	0.98	0.350 U	4.90 JD	3.80 U	0.420 U	0.430 U	0.350 U	0.0822 J	0.350 U	7.60 D	0.66	0.350 U	0.360 U	0.360 U	0.360 U	0.190 J
bis(2-Chloroethoxy)methane	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
bis(2-Chloroethyl)ether	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Bis(2-ethylhexyl)phthalate	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.110 J	0.350 U	0.360 U	0.110 J	0.350 U	0.360 U	0.360 U	0.220 J	0.0938 J
Butylbenzylphthalate	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.130 J	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	2	0.360 U
Caprolactam	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Carbazole	NS	NS	0.120 J	0.350 U	0.74	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	1.6	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.0772 J
Chrysene	1	3.9	1.9	0.350 U	12.2 D	3.80 U	0.120 J	0.430 U	0.350 U	0.210 J	0.350 U	10.8 D	1.5	0.350 U	0.110 J	0.130 J	0.360 U	0.61
Dibenzo(a,h)anthracene	0.33	0.33	0.280 J	0.350 U	0.93	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.6	0.220 J	0.350 U	0.360 U	0.360 U	0.360 U	0.0815 J
Dibenzofuran	7	59	0.370 U	0.350 U	0.45	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	1.3	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Diethylphthalate	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Dimethylphthalate	NS	NS	0.240 J	0.190 J	0.270 J	3.80 U	0.370 J	0.340 J	0.150 J	0.160 J	0.100 J	0.170 J	0.190 J	0.35	0.0906 J	0.0878 J	0.120 J	0.110 J
Di-n-butylphthalate	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.38	0.360 U
Di-n-octyl phthalate	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Fluoranthene	100	100	4.20 D	0.350 U	26.2 D	0.790 J	0.240 J	0.430 U	0.350 U	0.330 J	0.350 U	25.1 D	2.5	0.350 U	0.210 J	0.220 J	0.360 U	1.6
Fluorene	30	100	0.210 J	0.350 U	1.8	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	2.5	0.120 J	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Hexachlorobenzene	0.33	1.2	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Hexachlorobutadiene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.350 U	0.360 U	0.360 U	0.350 U	0.360 U	0.360 U	0.360 U	0.360 U
Hexachlorocyclopentadiene	NS	NS	0.370 U	0.350 U	0.370 U	3.80 U	0.420 U	0.430 U	0.350 U	0.370 U	0.35							

Table 3
Summary of Laboratory Results
Polychlorinated Biphenyls (PCBs) in Soil Samples
Former L L Salvage Site at
1005 and 1009 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives		LL-SB-1(0-2)	LL-SB-1(4-8)	LL-SB-2(0-2)	LL-SB-2(4-8)	LL-SB-3(0-2)	LL-SB-4(0-2)	LL-SB-4(4-6.8)	LL-SB-5(0-2)	LL-SB-5(6-8)	LL-SB-6(0-2)	LL-SB-6A(8-10)	LL-SB-7(0-2)	LL-SB-8(0-2)	LL-SB-8(4-6)	LL-SB-9(0-2)	LL-SB-9(4-8)
Lab Sample Number			F2341-01	F2341-02	F2341-03	F2341-04	F2341-05	F2341-06	F2341-07	F2341-08	F2341-09	F2341-10	F2341-11	F2341-12	F2341-13	F2341-14	F2341-15	F2341-16
Sampling Date			5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014
Matrix	Unrestricted	Restricted Use	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE		Restricted-Residential	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U
Aroclor-1221	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U
Aroclor-1232	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U
Aroclor-1242	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U
Aroclor-1248	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U
Aroclor-1254	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0561 J+	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.18	0.0184 U
Aroclor-1260	0.1	1	0.0191 U	0.0182 U	0.0191 U	0.0196 U	0.0215 U	0.0219 U	0.0179 U	0.0193 U	0.0179 U	0.0188 U	0.0185 U	0.0178 U	0.0187 U	0.0185 U	0.0184 U	0.0184 U

NOTES:
All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)
Yellow highlighted results indicates detected concentration exceeds the "Unrestricted" soil cleanup objective. Bold result indicates detected concentration exceeds the "Residential Use" SCO. Bold and italicized result indicates detected concentrations exceeds the "Restricted-Residential Use" SCO. Orange highlighted results indicate detected concentrations exceed the "Industrial" SCO.
U - The analyte was not detected above the laboratory method detection limit.
NS - No standard exists for this compound.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Table 4
Summary of Laboratory Results
Metals in Soil Samples
Former L.L. Salvage Site at
1005 and 1009 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives		LL-SB-1(0-2)	LL-SB-1(4-8)	LL-SB-2(0-2)	LL-SB-2(4-8)	LL-SB-3(0-2)	LL-SB-4(0-2)	LL-SB-4(4-6.8)	LL-SB-5(0-2)	LL-SB-5(6-8)	LL-SB-6(0-2)	LL-SB-6A(8-10)	LL-SB-7(0-2)	LL-SB-8(0-2)	LL-SB-8(4-6)	LL-SB-9(0-2)	LL-SB-9(4-8)
Lab Sample Number	Cleanup Objectives		F2341-01	F2341-02	F2341-03	F2341-04	F2341-05	F2341-06	F2341-07	F2341-08	F2341-09	F2341-10	F2341-11	F2341-12	F2341-13	F2341-14	F2341-15	F2341-16
Sampling Date			5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014	5/13/2014
Matrix	Unrestricted	Restricted Use	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE		Restricted Residential	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	13	16	6.14	1.54	4.61	4.63	4.67	2	1.46	2.57	1.18	4.07	2.41	0.650 J	3.33	1.79	3.17	2.63
Barium	350	400	187	270	112	89.6	157	144	380	258	658	176	281	162	162	204	192	140
Cadmium	2.5	4.3	0.294	0.270 U	0.280 U	0.151 J	0.281 J	1.22	0.270 U	0.664	0.260 U	1.4	0.280 U	0.260 U	0.270 U	0.280 U	0.382	0.270 U
Chromium	30	180	21.3 J	37	15.1	20.6	33.1	26.7	36	41	46.3	35.2	20.9	39.9	20.9	19.4	19.1	18.1
Lead	63	400	879	0.649	141	287	118	111	0.686	216	0.460 J	304	63.6	51.4	73.1	13.3	81.5	70.4
Mercury	0.18	0.81	0.207	0.0090 J	0.101	0.103	0.064	0.056	0.0050 J	0.206	0.0060 J	0.183	0.434	0.038	0.076	0.02	0.047	0.041
Selenium	3.9	180	1.53	1.49	1.26	1.13	1.3	2.46	1.73	1.57	1.46	1.32	1.03	1.17	1.17	0.855 J	1.24	1.05
Silver	2	180	0.491	0.427 J	0.439 J	0.364 J	0.575	1.08	0.395 J	0.782	0.430 U	0.788	0.228 J	0.309 J	0.344 J	0.460 U	0.339 J	0.202 J

NOTES:

All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)

Yellow highlighted results indicates detected concentration exceeds the "Unrestricted" soil cleanup objective. Bold result indicates detected concentration exceeds the "Residential Use" SCO. Bold and italicized result indicates detected concentrations exceeds the "Restricted-Residential Use" SCO. Orange highlighted results indicate detected concentrations exceed the "Industrial" SCO.

ND - The analyte was not detected above the laboratory method detection limit.

J - Indicates the analyte was detected below the reporting limit but greater than or equal to the method detection limit; therefore, the result is an estimated concentration.

NS - No standard exists for this compound.

Table 1
Summary of Laboratory Results
Volatile Organic Compounds (VOCs) in Soil Samples
Former Karta Site at 1011 Lower South Street, Peekskill, NY

Sample ID	NYCRR Part 375 Soil Cleanup		1011-SB-1(8-10)	1011-SB-1(8-10)RE	1011-SB-2(4-8)	1011-SB-2(4-8)RE	1011-SB-3(4-6.5)	1011-SB-4(1.5-3.5)	1011-SB-4(1.5-3.5)RE	1011-SB-5(1.5-3.4)	1011-SB-DUP (Field duplicate of SB-5)	1011-SB-6(4-6.2)	1011-SB-7(2-4)
Lab Sample Number			F2336-01	F2336-01RE	F2336-02	F2336-02RE	F2336-03	F2336-06	F2336-06RE	F2336-07	F2336-10	F2336-08	F2336-09
Sampling Date			5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014
ANALYTE	Unrestricted	Restricted Residential	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1,1-Trichloroethane	0.68	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
1,1,2-Trichloroethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,1,2-Trichlorotrifluoroethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,1-Dichloroethane	0.27	26	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,1-Dichloroethene	0.33	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,2,3-Trichlorobenzene	NS	NS	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
1,2,4-Trichlorobenzene	NS	NS	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
1,2-Dibromoethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,2-Dichlorobenzene	1.1	100	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,2-Dichloroethane	0.02	3.1	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,2-Dichloropropane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,3-Dichlorobenzene	2.4	49	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 UJ	0.0057 U	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
1,4-Dichlorobenzene	1.8	13	0.0049 UJ	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0214 J	0.0185	0.0054 U	0.0055 U	0.0050 U	0.0056 U
1,4-Dioxane	0.1	13	0.0990 R	0.100 U	0.100 R	0.110 UJ	0.110 R	0.130 R	0.110 U	0.110 R	0.110 R	0.0994 R	0.110 R
2-Butanone	0.12	100	0.0222 J	0.0319	0.0150 J-	0.0137 J-	0.0393	0.0748	0.0941	0.0269 U	0.0275 U	0.0802	0.0280 U
2-Hexanone	NS	NS	0.0247 U	0.0256 U	0.0253 UJ	0.0274 UJ	0.0269 U	0.0336 U	0.0284 U	0.0269 U	0.0275 U	0.0248 U	0.0280 U
4-Methyl-2-Pentanone	NS	NS	0.0126 J	0.0115 J	0.0093 J	0.0120 J	0.0083 J	0.0084 J	0.0182 J	0.0052 J	0.0275 U	0.0098 J	0.0073 J
Acetone	0.05	100	0.089	0.15	0.0776 J-	0.0825 J-	0.19 J	0.29	0.42	0.0302	0.0377	0.35	0.0128 J
Benzene	0.06	4.8	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0016 U	0.0018 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Bromochloromethane	NS	NS	0.0049 U	0.0051 U	0.0051 U	0.0055 U	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Bromodichloromethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Bromoform	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Bromomethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Carbon Disulfide	NS	NS	0.0062	0.0124	0.0055 J-	0.0099 J-	0.0071 J	0.0745	0.0911	0.0054 U	0.0055 U	0.0045 J	0.0056 U
Carbon Tetrachloride	0.76	2.4	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Chlorobenzene	1.1	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0029 J	0.0027 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Chloroethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Chloroform	0.37	49	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Chloromethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
cis-1,2-Dichloroethene	0.25	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0020 J	0.0020 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
cis-1,3-Dichloropropene	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Cyclohexane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Dibromochloromethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Dichlorodifluoromethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Ethyl Benzene	1	41	0.0049 U	0.0051 U	0.0081 J-	0.0095 J-	0.0054 UJ	0.0259 J	0.0282	0.0054 U	0.0055 U	0.0050 UJ	0.0056 U
Isopropylbenzene	NS	NS	0.0049 UJ	0.0051 U	0.0176 J-	0.0247 J-	0.0029 J	0.0255	0.0262	0.0054 U	0.0055 U	0.0050 U	0.0056 U
m/p-Xylenes	0.26+	100+	0.0099 U	0.0102 U	0.0101 UJ	0.0124 J-	0.0107 U	0.0185	0.0213	0.0107 U	0.0110 U	0.0099 U	0.0112 U
Methyl Acetate	NS	NS	0.0049 U	0.0051 U	0.0028 J-	0.0038 J-	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Methyl tert-butyl Ether	0.93	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Methylcyclohexane	NS	NS	0.0049 U	0.0051 U	0.0052 J-	0.0036 J-	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Methylene Chloride	0.05	100	0.0011 J	0.0023 J	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0025 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
o-Xylene	0.26+	100+	0.0049 U	0.0051 U	0.0027 J-	0.0050 J-	0.0021 J	0.0274	0.0286	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Styrene	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0074	0.0054 U	0.0055 U	0.0050 U	0.0056 U
t-1,3-Dichloropropene	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Tetrachloroethene	1.3	19	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0058 J	0.0056 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Toluene	0.7	100	0.0049 U	0.0051 U	0.0010 J-	0.0017 J-	0.0054 U	0.0114	0.0143	0.0054 U	0.0055 U	0.0050 U	0.0056 U
trans-1,2-Dichloroethene	0.19	100	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Trichloroethene	0.47	21	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0032 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Trichlorofluoromethane	NS	NS	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0015 J	0.0036 J	0.0054 U	0.0055 U	0.0050 U	0.0056 U
Vinyl Chloride	0.02	0.9	0.0049 U	0.0051 U	0.0051 UJ	0.0055 UJ	0.0054 U	0.0067 U	0.0057 U	0.0054 U	0.0055 U	0.0050 U	0.0056 U

NOTES:
All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)
Yellow highlighted results indicates detected concentration exceeds the Unrestricted soil cleanup objective. Bold result indicates detected concentration exceeds the "Residential Use" SCO. Bold and italicized result indicates detected concentrations exceeds the "Restricted-Residential Use" SCO. Orange highlighted results indicate detected concentrations exceed the "Industrial" SCO
ND - The analyte was not detected above the laboratory method detection limit.
J - Indicates the analyte was detected below the reporting limit but greater than or equal to the method detection limit; therefore, the result is an estimated concentration.
NS - No standard exists for this compound.

Table 2
Summary of Laboratory Results
Semi-Volatile Organic Compounds (SVOCs) in Soil Samples
Former Karta Site at 1011 Lower South Street, Peekskill, NY

Sample ID	NYCRR Part 375 Soil Cleanup		1011-SB-1(8-10)	1011-SB-2(4-8)	1011-SB-3(4-6.5)	1011-SB-4(1.5-3.5)	1011-SB-5(1.5-3.4)	1011-SB-DUP (Field duplicate of SB-5)	1011-SB-6(4-6.2)	1011-SB-7(2-4)
Lab Sample Number			F2336-01	F2336-02	F2336-03	F2336-06	F2336-07	F2336-10	F2336-08	F2336-09
Sampling Date			5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014
Matrix		Restricted Use	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE	Unrestricted	Restricted Residential	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1-Biphenyl	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
1,2,4,5-Tetrachlorobenzene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,2-oxybis(1-Chloropropane)	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4,5-Trichlorophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4,6-Trichlorophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4-Dichlorophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4-Dimethylphenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4-Dinitrophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,4-Dinitrotoluene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2,6-Dinitrotoluene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2-Chloronaphthalene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2-Chlorophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2-Methylnaphthalene	NS	NS	0.760 U	0.62	4.30 U	2.20 J	0.350 U	0.350 U	0.380 U	0.360 U
2-Methylphenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2-Nitroaniline	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
2-Nitrophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
3,3-Dichlorobenzidine	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
3+4-Methylphenols	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
3-Nitroaniline	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4,6-Dinitro-2-methylphenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Bromophenyl-phenylether	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Chloro-3-methylphenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Chloroaniline	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Chlorophenyl-phenylether	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Nitroaniline	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
4-Nitrophenol	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Acenaphthene	20	100	0.760 U	0.250 J	4.30 U	5.9	0.350 U	0.350 U	0.380 U	0.360 U
Acenaphthylene	100	100	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Acetophenone	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Anthracene	100	100	0.350 J	0.330 J	1.80 J	8.3	0.350 U	0.350 U	0.160 J	0.0973 J
Atrazine	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Benzaldehyde	NS	NS	0.760 R	0.420 R	4.30 R	4.10 R	0.350 R	0.350 R	0.380 R	0.360 R
Benzo(a)anthracene	1	1	0.99	0.49	3.60 J	16.1	0.350 U	0.350 U	0.51	0.270 J
Benzo(a)pyrene	1	1	0.85	0.350 J	3.30 J	12.6	0.350 U	0.350 U	0.45	0.280 J
Benzo(b)fluoranthene	1	1	1.2	0.55	4.4 J	14.9	0.350 U	0.350 U	0.56	0.330 J
Benzo(g,h,i)perylene	100	100	0.610 J	0.210 J	1.80 J	6.7	0.350 U	0.350 U	0.280 J	0.200 J
Benzo(k)fluoranthene	0.8	3.9	0.430 J	0.140 J	1.00 J	6.5	0.350 U	0.350 U	0.220 J	0.150 J
bis(2-Chloroethoxy)methane	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
bis(2-Chloroethyl)ether	NS	NS	0.760 U	0.420 U	4.30 UJ	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Bis(2-ethylhexyl)phthalate	NS	NS	0.290 J	0.51	1.10 J	9.4	0.350 U	0.350 U	0.380 U	0.170 J
Butylbenzylphthalate	NS	NS	0.760 U	0.51	4.30 U	97.8 D	0.350 U	0.350 U	0.380 U	0.360 U
Caprolactam	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Carbazole	NS	NS	0.760 U	0.180 J	4.30 U	4.6	0.350 U	0.350 U	0.380 U	0.360 U
Chrysene	1	3.9	0.96	0.400 J	3.10 J	12.7	0.350 U	0.350 U	0.4	0.260 J
Dibenzo(a,h)anthracene	0.33	0.33	0.760 U	0.420 U	4.30 U	1.50 J	0.350 U	0.350 U	0.380 U	0.360 U
Dibenzofuran	7	59	0.760 U	0.210 J	4.30 U	3.80 J	0.350 U	0.350 U	0.380 U	0.360 U
Diethylphthalate	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Dimethylphthalate	NS	NS	0.690 J	0.52	0.960 J	4.10 U	0.74	0.54	0.62	0.64
Di-n-butylphthalate	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Di-n-octyl phthalate	NS	NS	0.760 U	0.420 U	4.30 U	2.60 J	0.350 U	0.350 U	0.380 U	0.360 U
Fluoranthene	100	100	2.1	1.3	8.7 J	32.4	0.350 U	0.350 U	1	0.57
Fluorene	30	100	0.170 J	0.350 J	1.30 J	6.7	0.350 U	0.350 U	0.380 U	0.360 U
Hexachlorobenzene	0.33	1.2	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Hexachlorobutadiene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Hexachlorocyclopentadiene	NS	NS	0.760 U	0.420 U	4.30 R	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Hexachloroethane	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.760 U	0.190 J	1.30 J	5.2	0.350 U	0.350 U	0.210 J	0.360 U
Isophorone	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Naphthalene	12	100	0.760 U	0.260 J	4.30 U	2.80 J	0.350 U	0.350 U	0.380 U	0.360 U
Nitrobenzene	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
n-Nitroso-di-n-propylamine	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
n-Nitrosodiphenylamine	NS	NS	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Pentachlorophenol	0.8	6.7	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Phenanthrene	100	100	1.3	1.4	5.7 J	24.9	0.350 U	0.350 U	0.59	0.280 J
Phenol	0.33	100	0.760 U	0.420 U	4.30 U	4.10 U	0.350 U	0.350 U	0.380 U	0.360 U
Pyrene	100	100	1.7	0.96	6.6 J	27.2	0.350 U	0.350 U	0.8	0.45

total SVOCs 44.66 299.6

NOTES:
All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)
Yellow highlighted results indicates detected concentration exceeds the "Unrestricted" soil cleanup objective. Bold result indicates detected concentration exceeds the "Residential Use" SCO. Bold and italicized result indicates detected concentrations exceeds the "Restricted-Residential Use" SCO. Orange highlighted results indicate detected concentrations exceed the "Industrial" SCO.
ND - The analyte was not detected above the laboratory method detection limit.
J - Indicates the analyte was detected below the reporting limit but greater than or equal to the method detection limit; therefore, the result is an estimated concentration.
NS - No standard exists for this compound.
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

Table 3
Summary of Laboratory Results
Polychlorinated Biphenyls (PCBs) in Soil Samples
Former Karta Site at 1011 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup		1011-SB-1(8-10)	1011-SB-2(4-8)	1011-SB-3(4-6.5)	1011-SB-4(1.5-3.5)	1011-SB-5(1.5-3.4)	1011-SB-DUP (Field duplicate of SB-5)	1011-SB-6(4-6.2)	1011-SB-7(2-4)
Lab Sample Number			F2336-01	F2336-02	F2336-03	F2336-06	F2336-07	F2336-10	F2336-08	F2336-09
Sampling Date	Unrestricted	Restricted Use	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014
Matrix		Restricted- Residential	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	0.1	1	0.0197 U	0.0219 U	0.0223 U	0.0210 U	0.0179 U	0.0179 U	0.0193 U	0.0186 U
Aroclor-1221	0.1	1	0.0197 U	0.0219 U	0.0223 U	0.0210 U	0.0179 U	0.0179 U	0.0193 U	0.0186 U
Aroclor-1232	0.1	1	0.0197 U	0.0219 U	0.0223 U	0.0210 U	0.0179 U	0.0179 U	0.0193 U	0.0186 U
Aroclor-1242	0.1	1	0.0746 J+	0.15 J+	0.18 J+	0.4 J+	0.0179 U	0.0179 U	0.0193 U	0.0382 J
Aroclor-1248	0.1	1	0.0197 U	0.0219 U	0.0223 U	0.0210 U	0.0179 U	0.0179 U	0.0193 U	0.0186 U
Aroclor-1254	0.1	1	0.0770 J	0.0991 J	0.150 J	0.380 J	0.0179 U	0.0179 U	0.0193 U	0.0428
Aroclor-1260	0.1	1	0.0197 U	0.0219 U	0.0223 U	0.0210 U	0.0179 U	0.0179 U	0.0193 U	0.0186 U

NOTES:

All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)

Yellow highlighted results
indicates detected

U - The analyte was not detected above the laboratory method detection limit.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Table 4
Summary of Laboratory Results
Metals in Soil Samples
Former Karta Site at 1011 Lower South Street, Peekskill, NY

Sample ID	NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives		1011-SB-1(8-10)	1011-SB-2(4-8)	1011-SB-3(4-6.5)	1011-SB-4(1.5-3.5)	1011-SB-DUP	1011-SB-5(1.5-3.4)	1011-SB-DUP (Field duplicate of SB-5)	1011-SB-6(4-6.2)	1011-SB-7(2-4)
Lab Sample Number	Unrestricted	Restricted Use	F2336-01	F2336-02	F2336-03	F2336-06	F2336-10	F2336-07	F2336-10	F2336-08	F2336-09
Sampling Date		Restricted Residential	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014	5/14/2014
Matrix			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
ANALYTE			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	13	16	4.85	9.23	8.96	6.71	1.59	1.72	1.59	2.89	2.85
Barium	350	400	206	91.7	267	229	680	574	680	529	346
Cadmium	2.5	4.3	0.286 U	0.328 U	0.423	2.47	0.270 U	0.262 U	0.270 U	0.278 U	0.283 U
Chromium	30	180	27.7	30.7	31.4	21.7	38.8	36.6	38.8	33.4	22.9
Lead	63	400	96.9	44	170	261	1.58	2.53	1.58	33.9	22.7
Mercury	0.18	0.81	0.101	0.083	0.068	0.272	0.015	0.017	0.015	0.083	0.026
Selenium	3.9	180	1.25	1.09 U	1.2	1.39	1.65	1.32	1.65	1.46	0.7 J
Silver	2	180	0.52	0.255 J	0.367 J	0.432 J	0.234 J	0.436 U	0.234 J	0.460 U	0.472 U

NOTES:

All data are reported in milligrams per kilogram (mg/kg) = parts per million (ppm)

Yellow highlighted results indicates detected concentration exceeds the "Unrestricted" soil cleanup objective. Bold result indicates detected concentration exceeds the "Residential Use" SCO. Bold and italicized result indicates detected concentrations exceeds the "Restricted-Residential Use" SCO. Orange highlighted results indicate detected concentrations exceed the "Industrial" SCO.

U - The analyte was not detected above the laboratory method detection limit.

J - Indicates the analyte was detected below the reporting limit but greater than or equal to the method detection limit; therefore, the result is an estimated concentration.

NS - No standard exists for this compound.

Table 5
Summary of Laboratory Results
SPLP Metals and BNA Results
Former Karta Site at 1011 Lower South Street, Peekskill, NY

Sample ID	6 NYCRR Part 703.5	1011-SB-1(8-10)	1011-SB-3(4-6.5)	1011-SB-4(1.5-3.5)
Lab Sample Number		F2336-11	F2336-13	F2336-14
Sampling Date		5/14/2014	5/14/2014	5/14/2014
Matrix		WATER	WATER	WATER
ANALYTE		ug/L	ug/L	ug/L
SPLP METALS				
Arsenic	25	10.4	7.83 J	10.0 U
Barium	1,000	70.8	307	437
Cadmium	5	3.00 U	3.00 U	3.00 U
Chromium	50	4.35 J	4.87 J	6.81
Lead	25	4.26 J	26.8	42.7
Mercury	0.7	0.200 U	0.200 U	0.214
Selenium	10	10.0 U	10.0 U	10.0 U
Silver	50	5.00 U	5.00 U	5.00 U
SPLP BNA				
1,4 Dichlorobenzene	3	10.0 U	10.0 U	10.0 U
2,4,5-Trichlorophenol	NS	10.0 U	10.0 U	10.0 U
2,4,6-Trichlorophenol	NS	10.0 U	10.0 U	10.0 U
2,4-Dinitrotoluene	5*	10.0 U	10.0 U	10.0 U
2-Methylphenol	NS	10.0 U	10.0 U	10.0 U
3+4-Methylphenols	NS	10.0 U	10.0 U	10.0 U
Hexachlorobenzene	0.04	10.0 U	10.0 U	10.0 U
Hexachlorobutadiene	0.5	10.0 U	10.0 U	10.0 U
Hexachloroethane	5*	10.0 U	10.0 U	10.0 U
Nitrobenzene	0.4	10.0 U	10.0 U	10.0 U
Pentachlorophenol	1+	10.0 U	10.0 U	10.0 U
Pyridine	NS	10.0 U	10.0 U	10.0 U

NOTES:

All data are reported in micrograms per liter (ug/L) = parts per billion (ppb)

NS indicates that there is no listed standard for that analyte

U indicates compound not detected above laboratory method reporting limit

J indicates estimated value, compound detected below laboratory method reporting limit

Shaded cells indicate values that are greater than the standard.

ND indicates a non-detectable concentration

* indicates a guidance value.

Appendix D: Laboratory Results Summary Tables for Prior LSS Site Investigations

**PHASE I/II
ENVIRONMENTAL
SITE ASSESSMENT**

Subject Property:

Global Land Inc.

**1011 Lower South Street
Peekskill, NY**

April 15, 2002

**Prepared By:
S.I.T.E.S, Inc
Old Route 124
North Salem, New York 10560**

**Prepared For:
Global Land Inc.
120 Travis Lane
Peekskill, New York 10566**

Executive Summary

This Environmental Site Assessment Phase I/II Assessment was performed by S.I.T.E.S. Inc. (SITES) on behalf of the property owner Global Land Inc. (Global) to:

- Identify environmental conditions which might represent a financial liability resulting from or associated with the current or past storage, use, transport, or disposal of hazardous or regulated materials on the property located at 1011 Lower South Street in Peekskill, New York.
- Assess the subsurface soil and groundwater conditions on the property at selected locations based on the potential for contamination associated with site activities and storage of petroleum or hazardous products, site drainage and off-site sources. One area of particular concern is the property line adjacent to L&L Scrap Metal.

The Phase I portion of this Assessment has been prepared in general conformance with guidelines set forth by the American Society for Testing and Materials (ASTM) Methods. The specific components of the data search consisted of the following:

1. Review of the Phase I report, dated August 27, 1999, prepared by Elmendorf Environmental, Inc.
2. Review of federal and state computer databases and printed records for documentation of potential liabilities relevant to the subject property. Records reviewed and corresponding search radii are consistent with, or exceed, the requirements set forth by the ASTM.
3. Review of site conditions and features. A site inspection of the property, including the on-site structures, was conducted on March 21, 2002 by Robert Wasp of S.I.T.E.S., Inc.

The findings from the Phase I records review and site walkover were:

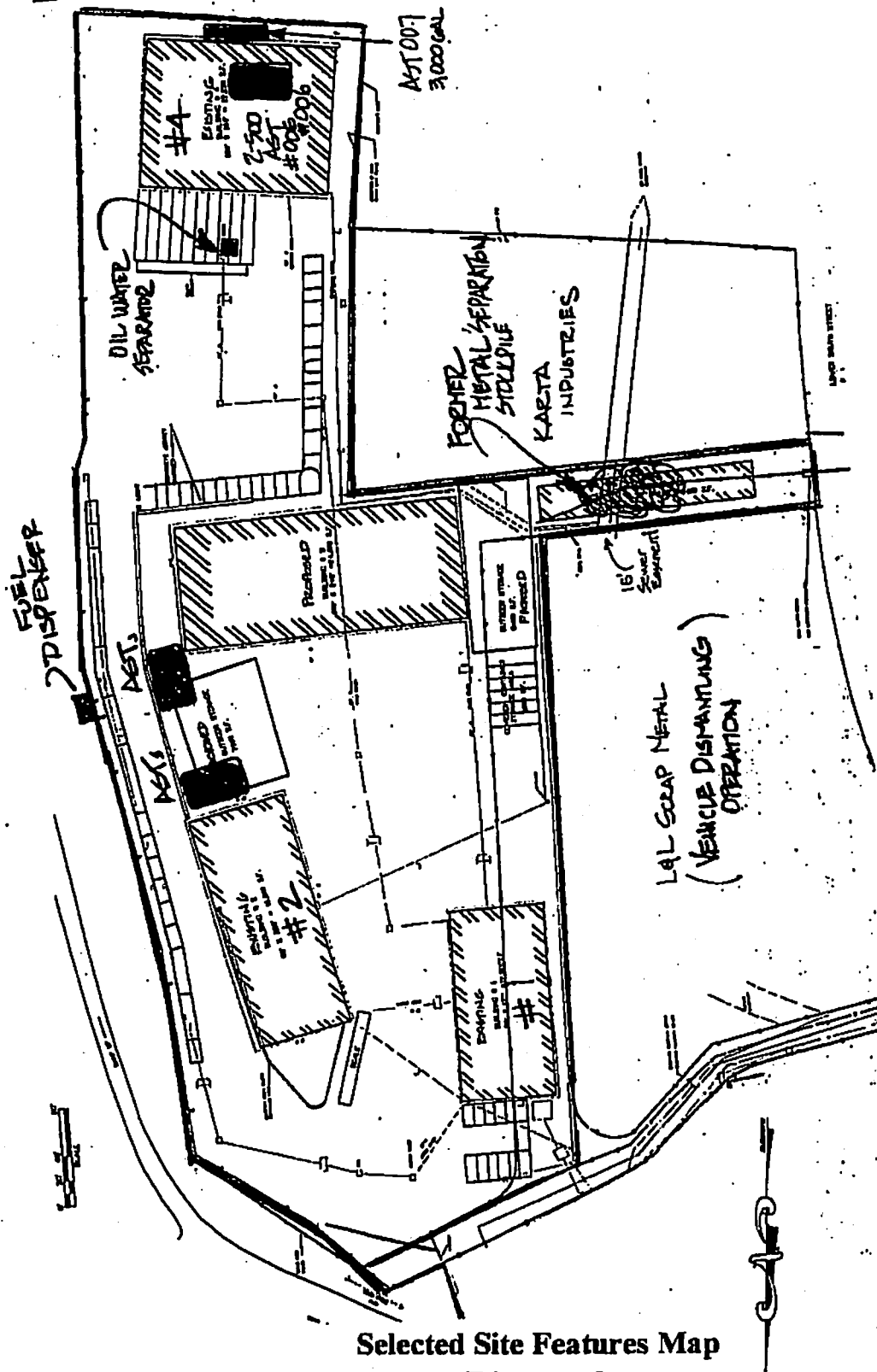
1. A review of state and federal regulatory agency databases indicates that the subject property was not identified on any of the databases for hazardous waste sites; hazardous or solid waste storage, generation and/or disposal facilities; landfills or transfer stations; major oil storage facility; petroleum or chemical bulk storage facilities; air/wastewater discharge permitted facilities; or chemical spill.
2. With the exception of the small area near Lower South Street, the site is relatively new. The land was vacant until about 1995. The site development to date resulted in the regarding of natural soils down to

the shallow rock elevation. The site has been terraced with the construction of new buildings, driveways and utilities. Clean fill (dirt, rock and exempt construction material) have been used for regrading.

3. NYSDEC records indicate that the adjoining property L&L Scrap Metals is under an agency order to conduct additional testing and remediation as a result of a petroleum spill.
4. The site inspection conducted on March 21, 2002 indicated no evidence of contamination at the facility. Petroleum product is stored in double walled above ground tanks that were well maintained. The tanks are registered with the Westchester County Health Department.

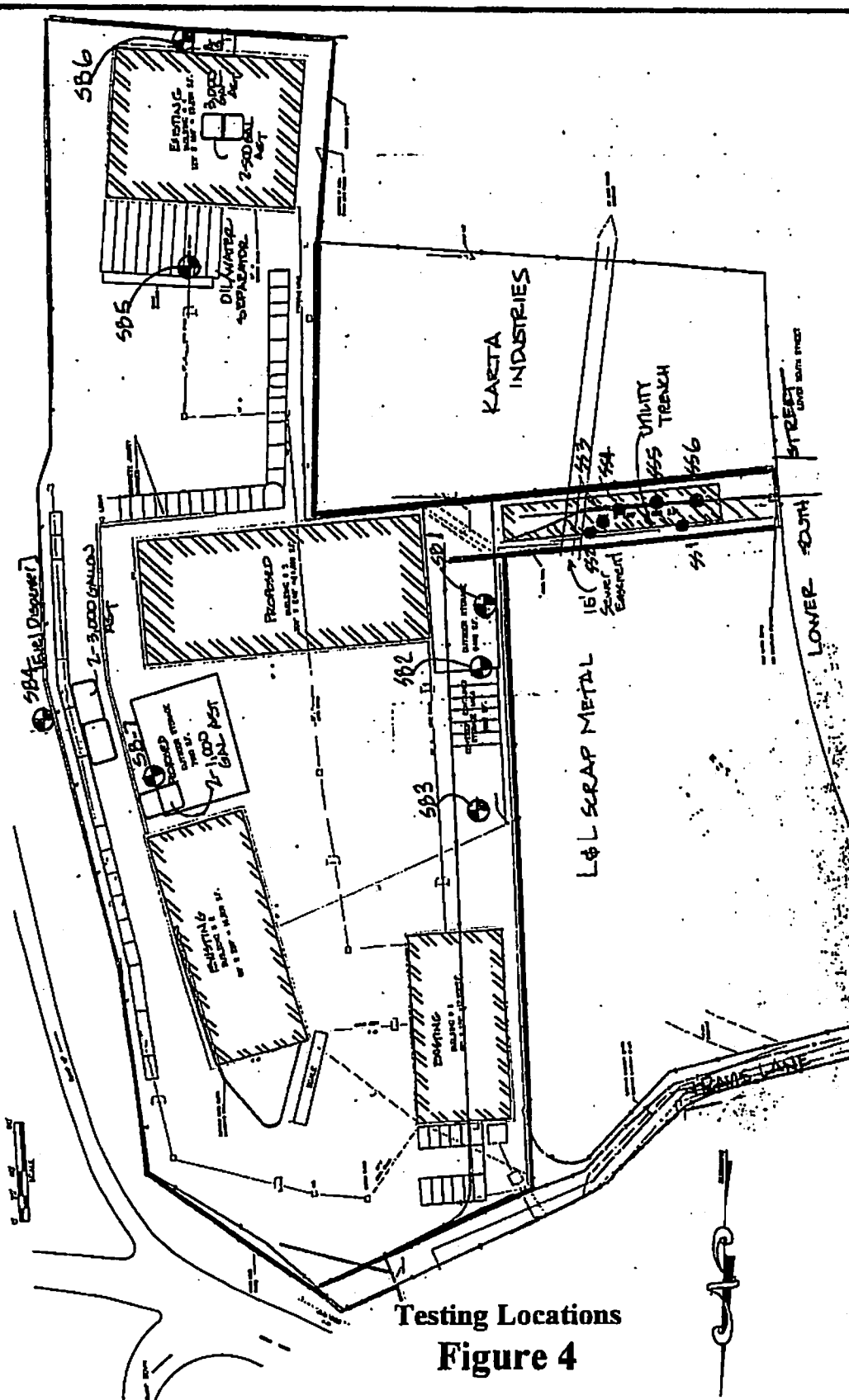
Based on the work performed to date, the following conclusions and recommendations are made regarding the subject property.

1. A review of state and federal regulatory agency databases for adjoining and vicinity properties indicates that there are several Federal and State sites within close proximity (0.25 miles) of the site. However, only two sites are partially upgradient or side gradient to the Global property. Karta Industries is a solid waste facility that had no reported spills or releases. L&L Scrap Metal is a listed RCRA generator site with an ongoing petroleum investigation and cleanup. This site has the greatest potential for impact on the Global property.
2. The Laboratory data indicates elevated petroleum hydrocarbons along the westerly trench and test pit walls at the property line with L&L Scrap Metals. Given the property use and alleged activities involving the dumping and spillage of petroleum products on the ground surface at L&L Scrap Metals, it is reasonable to conclude that the contamination observed at the Global property during the utility trench excavation and Phase II testing migrated from the L&L Scrap Metals property.
3. The lab data indicates that the soils immediately beneath the former concrete slab at the former metal recycling and storage area that fronts on Lower South Street, are not contaminated and do not pose a public health threat as the data compares favorably with NYSDEC TAGM Guidelines and Eastern USA Background levels. This finding suggests that the petroleum source was from an off-site location.



Selected Site Features Map
Figure 3

Global Land Inc.
Site Assessment
S.I.T.E.S. Inc.



Testing Locations
Figure 4

Global Land Inc.
Site Assessment
S.I.T.E.S. Inc.

S.L.T.E.S., Inc.

- selected sample for laboratory analysis was to be in the natural soil and/or any fill interval exhibiting PID readings above background levels.
3. Grab soil samples from the utility trench excavation (4) and former concrete slab area (2)
 4. Site monitoring and sample collection for PID screening and laboratory analysis
 5. Laboratory analysis of soil samples; Soil borings and trench samples to be analyzed for Methods 8021 and 8270 STARS/TAGM. The shallow grab samples below the former slab to be analyzed for full Method 8260 Volatiles and 8270 Semi-Volatiles, PCBs Method 8082 and TAL Metals Method 6010.
 6. Preparation of a Report combining the Phase I/II information with conclusions and recommendations

Site work was performed on March 22 and March 27, 2002. Following a health and safety meeting, Environmental Cleanup Solutions, Inc. of Scotia, New York, performed the soil boring work. SITES's representatives performed oversight and sampling services on behalf of the owner. Based on the measurements from field screening of the samples, SITES selected samples from borings and soil intervals for laboratory analysis by York Analytical Laboratories of Stamford, Connecticut. York is a New York State Certified lab and meets NELAP certification.

4.2 Phase II Investigation Findings

The locations of the borings and test locations are shown in Figure 4.

1. Based on site observations and previous testing the site soils appear to have been impacted by the adjoining property owner, L&L Scrap Metals. The findings and conclusions contained in the Spill Closure Report dated 4/9/02 support this statement. The impacted soils on Global's property have been removed and stockpiled in preparation for disposal.
2. The laboratory data for the four grab soil samples (SS1 thru SS4) in the excavation trench confirmed the findings from field measurements taken with the Photoionization detector (PID) in that the soil contamination exhibited higher values at the property line of the adjoining property at the 2-5 foot depths below the former concrete slab. The observations and PID readings immediately below the concrete slab were indicative of uncontaminated soils.
3. The observations and laboratory test analysis of liquids that filled the test pits during the Spill Closure activity are indicative of petroleum contaminated water and product. This liquid was observed entering the excavation from the northerly pit wall immediately adjacent to the property line with L&L Scrap Metal. Since groundwater elevations are likely to be much deeper this water may be perched water beneath the surface.

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1011 Lower South Street
Peekskill, New York*

S.I.T.E.S., Inc.

4. Soil boring samples (SB1 and SB2) were taken at the property corner at the depth below fill to the original grade (approximately 15-20 feet). These two borings were in close proximity to the rear southeast corner of L&L Scrap Metals. The laboratory results indicated non-detectable levels for semi-volatiles with a few reported hydrocarbon parameters (MTBE 17 ppb, Xylenes 15 ppb and Toluene 17 ppb; all values well within acceptable ranges as set by the NYSDEC TAGM Values for soils.
5. Soil Boring SB3 was taken at a depth of 13 feet near the same property line as SB2 but approximately 75 feet north of the SB2 location. This lab sample analysis indicated non-detect for all volatiles with a few semi-volatile values; ranging between 680 ppb Anthracene and 3,500 ppb Fluoranthene.
6. SB4 was taken in the driveway area along side the diesel fuel dispenser (AST tanks #001 and #002) approximately 75 south of Building 2. The soil depth was 8 feet. All reported values for volatiles and semi-volatiles were non-detect.
7. SB5 was taken in the driveway area adjacent to the oil water separator near Building #4. The depth of sample was 14 feet (natural grade). SB6 (Waste Oil AST #007) was taken at a depth of 10 feet. All volatiles and semi-volatiles were non detect. SB7 (Diesel AST #003 and #004) was taken at a depth of 3 feet with all volatile and semi-volatile values non-detect..
8. SS 5 and SS6 were soil samples taken at shallow depth (12 inches below the former slab depth). These samples were analyzed for TAGM volatiles, semi-volatiles, PCBs and Target Analyte Metals. The results indicated non-detect for volatiles, PAH semi-volatiles ranging from 660 ppb Indeno(1,2,3-cd)pyrene to 8,400 ppb Fluoranthene.

5.0 CONCLUSIONS AND RECOMMENDATIONS

This Assessment has been performed on the property located at 1011 Lower South Street, Peekskill, New York as described in Section 2.0, above. Based on the work performed by this office to date, the following conclusions and recommendations are made regarding the subject property. Referenced site features are shown in Figure 3.

5.1 Conclusions

Review of Regulatory Agency Records

1. A review of state and federal regulatory agency databases indicates that the subject property was not identified on any of the databases for hazardous waste sites; hazardous or solid waste storage, generation and/or disposal facilities; landfills or transfer stations; major oil storage facility; petroleum or chemical bulk storage facilities; air/wastewater discharge permitted facilities; or chemical spill. The site is listed as a petroleum spill site (NYSDEC Spill#

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0111200) on the basis of the discovery of petroleum product on Global's property.

2. The data collected as part of the Closure Report filed with the NYSDEC along with the data suggest that the L&L Scrap Metal vehicle dismantling operations, past and present, are the cause for the soil and liquid product contamination along the property line of Global.
3. A review of state and federal regulatory agency databases for adjoining and vicinity properties indicates that there were three delisted Federal CERCLA sites, four RCRA generator and TSD sites, one TSCA site, two State Solid Waste Facilities, nineteen leaking storage tank sites and eight petroleum/chemical storage sites. Of all the listed sites only two site are partially upgradient of the Global property. Karta Industries is a solid waste facility that had no reported spills or releases. L&L Scrap Metal is a listed RCRA generator site with an ongoing petroleum investigation and cleanup. This site has the greatest potential for impacton the Global property.

Site Inspection

4. The site inspection conducted on March 21, 2002 indicated no evidence of contamination at the facility. The Storage of petroleum product is stored in double walled above ground tanks that were well maintained. The tanks are registered with the Westchester County Health Department.

Spill Closure and Phase II Sampling

5. The Laboratory data reported in the Spill Closure Report by SITES indicated elevated petroleum hydrocarbons along the westerly trench and test pit walls at the property line with L&LScrap Metals. Liquid and petroleum product was evidenced entering the excavation wall from the property line side. Given the property use and alleged activities involving the dumping and spillage of petroleum products on the ground surface at L&L Scrap Metals, it is reasonable to conclude that the contamination observed at the Global property during the utility trench excavation and Phase II testing migrated from the L&L Scrap Metal property.
6. The data obtained during the Phase II subsurface investigation by SITES confirms the findings preseented in SITES Spill Closure Report dated April 12, 2002. Further, the data indicates that the soils immediately beneath the former concrete slab at the former metal recycling and storge area that fronts on Lower South Street, compare favorably with NYSDEC TAGM Guidelines and Eastern USA Background levels. This find suggests that the petroleum source that was found on Global's property originated from the suspected off-

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site location.

5.2 Recommendations

- 1. Complete the disposal activities for the contaminated soils and provide all environmental data to the regulatory agencies.**
- 2. Continue to maintain safe storage for all petroleum and chemical products. Maintain environmentally safe work practices and procedures.**
- 3. Maintain contact with the NYSDEC to ensure that investigation and remediation activities are performed at the L&L Scrap Metal property. This will help prevent future impacts to the Global property.**

Table 4: VOCs in Soils

Results provided in parts per billion. Results shown in bold exceed guidance levels.

Compound (USEPA Method 8021)	Guidance level*	Sample Identification						
		SED-1	HB-1	GP-6 (5-6)	GP-9 (1-2)	GP-3 (1-3)	GP-10 (1-2)	GP-11 (2-4)
1,1,1,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	**	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	400	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	**	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	**	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	400	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3,400	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10,000	ND	18	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	**	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	**	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7,900	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene (cis)	**	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene (trans)	300	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene (total)	**	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	**	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3,300	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1,600	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	300	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	**	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	**	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	**	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	**	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	**	ND	ND	ND	ND	ND	ND	ND
Bromoform	**	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	600	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,700	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1,900	ND	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND	ND
Chloromethane	**	ND	ND	ND	ND	ND	ND	ND
Cis-1,3-Dichloropropylene	**	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	**	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	**	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	6,500	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	**	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	120	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	100	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13,000	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	10,000	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,700	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1,200	ND	ND	ND	ND	ND	ND	ND
p- & m-Xylenes	1,200	ND	ND	ND	ND	ND	ND	ND
total Xylenes	1,200	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10,000	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	10,000	ND	ND	ND	ND	ND	ND	ND
Styrene	**	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	10,000	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	1,400	ND	ND	ND	ND	ND	ND	ND
Toluene	1,500	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	**	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	700	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	**	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	200	ND	ND	ND	ND	ND	ND	ND

Notes:

* Guidance levels based on NYSDEC TAGM 404 and subsequent memoranda.

** TAGM cleanup objective not established (total individual and sum of VOCs not listed must be less than or equal to 10 ppm).

ND = Not Detected

VOCs not detected

Table 5: PAHs in Soils

Results provided in parts per billion. Results in bold exceed guidance levels

Compound (USEPA Method 8270)	Guidance level	Sample Identification	
		SED-1	GP-6 (5-6)
Acenaphthene	50,000	ND	ND
Acenaphthylene	41,000	ND	ND
Anthracene	50,000	ND	ND
Benzo(a)anthracene	224	ND	99
Benzo(a)pyrene	61	ND	110
Benzo(b)fluoranthene	1,100	ND	74
Benzo(g,h,i)perylene	50,000	ND	ND
Benzo(k)fluoranthene	1,100	ND	140
Chrysene	400	ND	130
Dibenzo(a,h)anthracene	14	ND	ND
Fluoranthene	50,000	350	240
Fluorene	50,000	ND	ND
Indeno(1,2,3-cd)pyrene	3,200	ND	ND
Naphthalene	13,000	ND	ND
Phenanthrene	50,000	ND	130
Pyrene	50,000	370	220

Notes:

* Guidance levels based on NYSDEC TAGM 4046 and subsequent memoranda.

ND = Not Detected

RRSCOs

1,000

1,000

1,000

3,900

3,900

100,000

100,000

100,000

Results meet RRSCOs

Table 6: RCRA Metals in Soils

Results provided in parts per million.

Compound	Eastern USA Background	Guidance level	Sample Identification		
			SED-1	GP-13 (1-4)	GP-14 (2-3)
Arsenic	3 – 12	7.5 or SB	5.49	6.12	4.71
Barium	15 – 600	300 or SB	34.5	124	165
Cadmium	0.1 – 1	1 or SB	0.75	ND	ND
Chromium	1.5 – 4.0	10 or SB	8.58	19.3	19.5
Lead	4 – 500	SB	27.2	84.0	76.7
Mercury	0.001 – 0.2	0.1	ND	0.16	ND
Selenium	0.1 – 3.9	2 or SB	2.84	3.28	2.9
Silver	NP	SB	ND	ND	ND
Notes: Background levels and guidance levels based on NYSDEC TAGM 4046 and subsequent memoranda. ND = Not Detected SB = Site Background					

RRSCOs

16
400
4.3
180
400
0.81
180

Results meet RRSCOs

Table 7: PCBs in Soils

Results provided in parts per million. Results in bold exceed designated guidance levels.

PCB Compound (USEPA Method 8082)	Sample Identification		
	SED-1	GP-6 (5-6)	GP-9 (1-2)
PCB 1016	ND	ND	ND
PCB 1221	ND	ND	ND
PCB 1232	ND	ND	ND
PCB 1242	ND	ND	ND
PCB 1248	ND	ND	ND
PCB 1254	0.034	ND	0.054
PCB 1260	ND	ND	0.033
PCB, Total	0.034	ND	0.087
Notes:			
Guidance levels for PCBs are 1.0 ppm for surface soils and 10 ppm for subsurface soils, based on <u>NYSDEC TAGM 4046</u> and subsequent memoranda..			
ND = Not Detected			

Results meet RRSCO of 1 ppm

Table 8: VOCs in Soil Gas Samples
Results provided in parts per billion-volume, pptbv.

Compound (USEPA Method 8021)	Sample Identification			
	SG-1	SG-2	SG-3	SG-4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND
1,1-Dichloropropylene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	4.8	1.8	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethylene (cis)	ND	ND	ND	ND
1,2-Dichloroethylene (trans)	ND	ND	ND	ND
1,2-Dichloroethylene (total)	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	14	1.5	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
Benzene	3.6	29	2.1	5.9
Bromobenzene	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Cis-1,3-Dichloropropylene	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Dichlorodifluoromethane	1.9	ND	2.3	2.6
Ethylbenzene	2.2	2.9	1.9	3.6
Hexachlorobutadiene	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
o-Xylene	2.2	5.1	2.6	1.5
p-&m-Xylenes	3.3	4.8	3.7	2.3
total Xylenes	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
Tetrachloroethylene	3.5	3.2	ND	ND
Toluene	8.9	28	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND
Trichloroethylene	2.6	2.4	ND	ND
Trichlorofluoromethane	52	40	ND	ND
Vinyl chloride	ND	ND	ND	ND

Notes: ND = Not Detected



Dr. John O'Mara, P.E.
Environmental Engineer 2
21 South Putt Corner Road
New Paltz, New York

January 10, 2003

Re: Subsurface Investigation/ Proposed Remedial Action Plan
I&L Scrap Metal
1005-1009 Lower South Street
Peekskill, New York
NYSDEC Spill# 0010387

Dr. O'Mara:

The purpose of this letter is to summarize the subsurface investigation conducted by National Environmental Specialists, Inc. (NES), as well as propose a remedial action plan to address contaminants found during said investigation.

The above listed property currently operates as a metals transfer station. Recyclable metals are bought and sold at the facility. The facility is currently receiving copper, steel, aluminum, brass, and other precious or reclaimable metals.

Historically, the facility received automobiles and trucks for scrap metal. Said commodities were processed on site and exported in the processed form. The facility operated in this capacity for more than fifty years. Historic automobile processing practices allowed liquids to drain from the automobiles directly into the environment. Said practices were standard for the industry and historically acceptable. NES attributes the majority of the contamination, encountered during the investigation, to these historic practices.

Contaminants found during the subsurface investigation, that exceed New York State Department of Environmental Conservation (NYSDEC) Guidance Values according to TAGM #4046 include; lead, volatile organic compounds (VOCs) indigenous to petroleum products, and semi-volatile organic compounds (SVOCs) indigenous to

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petroleum products. Some RCRA Metals were found to exceed TAGM #4046, however, metal concentrations throughout the site appeared to be similar, therefore, assumed baseline for the area soils. PCBs were not found in concentrations that exceeded NYSDEC Guidance Values according to TAGM #4046. ✓

NES was contracted by Locapara Realty Corp. (LRC) to conduct a subsurface site investigation to determine the extent of soil and groundwater impacts, sustained by the environment, from historical operations at the above listed site. NES advanced twenty-two borings to refusal in suspect areas throughout the property. Bedrock and large subsurface anomalies (blasted rock) ranged from one foot below grade to nine feet below grade. NES utilized a two-inch, hydraulic, direct push, macro core sampler to collect continuous soil samples from each boring. Samples were collected in four-foot intervals and studied for soil color, texture, structure, odors, and evidence of chemical impacts not indigenous to the region. NES also collected Photo Ionization Detector (PID) readings from each four-foot interval, of every boring advance on site. PID readings of soils collected during the subsurface investigation ranged from non-detectable to 275ppm of VOCs evolving from the soils. See attached boring logs for a detailed summary of the observations made during the subsurface investigation.

Soil samples were collected from each boring to determine the concentrations of target analytes in the soil at the above listed site. Soil samples from each of the 22 borings were composited into eight soil samples. Composite soil samples were based on site location. Soil samples were analyzed for VOCs, SVOCs, RCRA Metals, TCLP Lead, and PCB. Soil samples were collected into laboratory clean glassware, maintained at four degrees Celsius, and delivered to York Analytical Laboratories in Stamford, CT for analysis. As stated above, said soil samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, Total RCRA Metals, and Lead following a TCLP extraction.

Impacted soils were found on the southern portion of the property. Impacted soils were found in the upper soils horizons. Contaminates were predominately petrol-chemical in nature and in the semi-volatile range. The petroleum-impacted soils can be attributed to historic automobile processing. The majority of impacted soils were observed in SB-11, SB-13, and SB-14. Topography and subsurface conditions conducted the liquid petroleum impacts to the southeastern portion of the property. This portion of the property is the lowest portion of the site. Test excavations in the southeastern corner show impacted material from grade to approximately eight feet below grade. Below eight feet, NES encountered historic backfill material, which does not appear to be impacted with petrol-chemicals.



The southern portion of the property was never utilized for automobile processing, impacted materials in the southern portion of the property were limited to machine traffic easements. Currently the southern portion of the property is utilized to store consolidated aluminum and steel. SB-21 and SB-22 are boring advanced in machinery easements.

The eastern portion of the property harbors residential homes and soils are limited by shallow bedrock depths. Impacts on the eastern portion of the property are minimal to non-existent.

Concentrations of lead were found in the hazardous range in boring SB-15 and also found in a composite floor sample collected in the copper processing room. Soil depths in both locations are limited by bedrock. Lead contamination can be attributed to historic battery storage, and wire processing. ←

NES proposes the following remedial action to address impacted materials found on site. Petrol-chemically impacted soils found in the upper soil horizons will be stripped off and stockpiled. Once stockpiled, impacted soils will be screened to remove, metals, wood, plastic, and boulders larger than four inches in diameter. The rock screened out of the impacted material will be used as backfill. Metals removed from the impacted material will be recycled. Wood waste screened from the material will be properly disposed of at Westchester Resco Company, located in Peekskill, New York. Plastics screened from the impacted material will be land filled. Impacted materials recovered after the screening process will be manifested, trucked, and properly disposed of at a licensed facility. Lead contaminated material will be striped of the bedrock, manifested, trucked, and properly disposed of at a licensed hazardous waste facility. ←

Following the remedial action, NES will collect random grab samples (not statistically significant) from formally impacted areas. Soil samples will be composited into a series of area samples. Area sizes will be determined after the remedial action is complete, thereby, ensuring proper representation. Sampling will not commence until a detailed area grid is submitted and approved by the department. Soil samples collected will be analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Total RCRA Metals, and Lead following a TCLP extraction. Due to the presence of historical backfill material, solid petrol-chemicals, such as coal and pitch may be present in "clean material", thereby creating a spike in the semi-volatile concentrations. These potential spikes in semi-volatile target analytes will be discounted with a ground water sample. If the ground water sample shows non-detectable concentrations of target SVOCs, then the leach ability of solid petrol-chemicals remaining on site would be minimal or non-existent.



If you have any questions or comments regarding this letter, please contact Scott Taylor at (914)-741-5472.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Taylor", is written over a horizontal line.

Scott Taylor
Environmental Scientist
National Environmental Specialists Inc.

CC: Locapara Realty Corp.

154 June Road
North Salem, New York 10560

SITES

(914) 669-5670
FAX (914) 669-5160

Strategies and Innovative Techniques for Environmental Systems, Inc.

November 19, 2003

New York State Department of
Environmental Conservation
Division of Solid Waste
21 South Putt Corners Road
New Paltz, New York 12561

Re: Report on Sampling and Analysis of Underlying Soils
Karta Corp. C&D Tipping and Processing Areas
1017 Lower South Street, Peekskill
Order on Consent, Case 3-5512-00054-00004

Dear Sir:

The attached original and one copy of the "Report on Sampling and Analysis of Underlying Soils at the C&D Tipping and Processing Areas", prepared by S.I.T.E.S., Inc., dated November 19, 2003 is presented to the NYSDEC in accordance with the requirements set forth in the above referenced NYSDEC Order of Consent, Schedule of Compliance, Item #6.

This Report was required to present analytical results of underlying soils from areas where C&D activities have been conducted and to evaluate whether any find of contamination constitutes a significant threat to the environment or public health. The work tasks were identified and presented to the NYSDEC in a Work Plan, dated September 26, 2003, prepared by SITES. Some Modifications and clarifications were made to the Work Plan in correspondence to the NYSDEC dated October 7, 2003.

The sampling field work was conducted by SITES at the property on October 9, 2003. A NYSDEC field representative was present during all phases of the work. Laboratory analyses were performed for chemical constituents. The laboratory data reports are included in the Report.

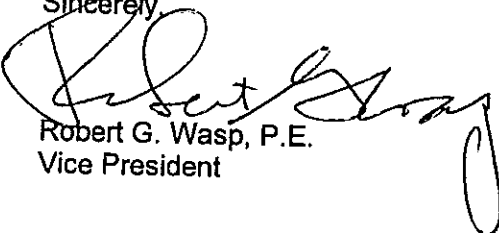
Based on the reported data and evaluation by SITES, we offer the following:

1. The chemical data for the six soil samples taken in the underlying soils does not indicate a significant threat to the environment or public health. Although there are some exceedances of TAGM values noted in the Report, the conclusions by SITES are based on a more detailed evaluation and discussion.
2. The broken slab areas that were removed prior to the shallow soil sampling, were repaired by filling the openings with a minimum of 8 inches of pouring new concrete slab. The repair of the slab provides adequate protection for any future potential contamination that may be present at the current C&D staging area. This activity was a requirement of the Order on Consent.

3. Based on the findings and conclusions presented in this report, SITES recommends that no further action is required relative to the soils and that a soil removal plan is not warranted.

If you have any questions, please feel free to contact me at (914) 669-5670

Sincerely,



Robert G. Wasp, P.E.
Vice President

cc: K. Cartalemi, Karta
P. Casowitz, Esq., Sive, Paget & Riesel
K. Gelting, Earth Tech

Attach:

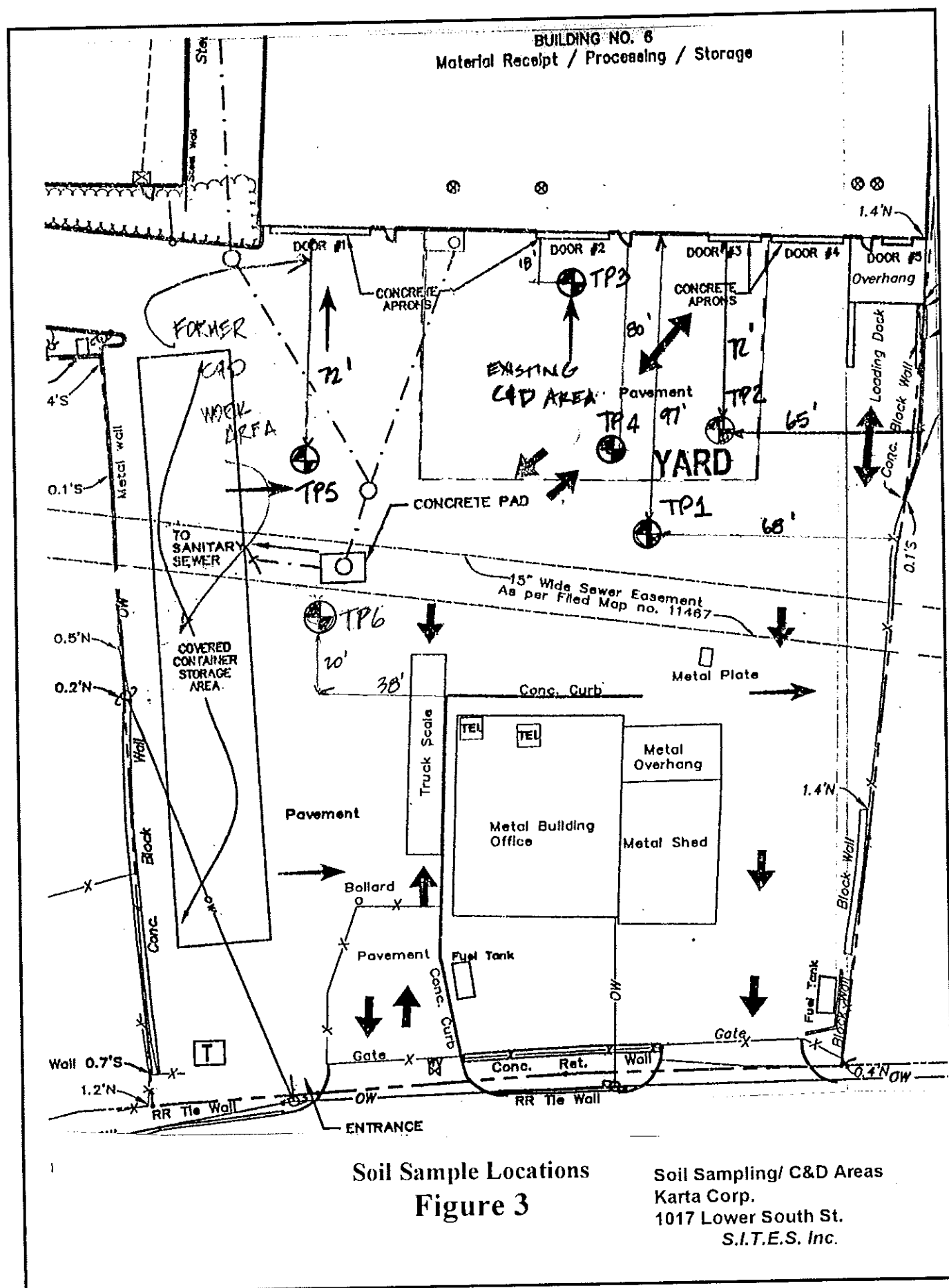


Table 1-1
Sample Location: TP1

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)
SemiVolatiles			
Anthracene	1.9	1050	No
Benzo(a)anthracene	3.4	4.5	No
Benzo(a)pyrene	2.5	16.5	No
Benzo(b)fluoranthene	2.6	1.65	Yes
Benzo(k)fluoranthene	3.6	1.65	Yes
Bis(2-ethylhexyl)phthalate	2.3	652.5	No
Butly benzyl phthalate	11.0	183	No
Chrysene	3.2	0.6	Yes
Fluoranthene	8.2	2850.9	No
Phenanthrene	7.0	330	No
Pyrene	6.9	1492.5	No
Volatiles			
1,2,4-Trimethylbenzene	0.007	19.43	No
Napthalene	0.062	19.50	No
Pesticides & PCBs			
PCB 1242	1.25		
PCB 1254	0.21		
PCB 1260	0.27		
Total PCBs	1.73	3.0	No
Total RCRA Metals			
Arsenic	5.05	7.5 or SB ⁽²⁾	No
Barium	343	300 or SB ⁽²⁾	Yes
Cadmium	1.47	1 or SB ⁽²⁾	Yes
Chromium	23.1	10 or SB ⁽²⁾⁽³⁾	Yes
Lead	208	SB ⁽²⁾⁽⁴⁾	No
Mercury	0.29	0.1	Yes
Total organic carbon			
	15000		

RRSCOs

100
1
1
3.9
no SCO
no SCO
3.9
100
100
100
52
100
1
16
400
4.3
180
400
0.81

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Circled results exceed RRSCOs

Table 1-2
Sample Location: TP2

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)	RRSCOs
SemiVolatiles				
Bis(2-ethylhexyl)phthalate	0.73	200.1	No	no SCO
Fluoranthene	0.84	874	No	100
Phenanthrene	0.70	101.2	No	100
Pyrene	0.74	305.9	No	100
Pesticides & PCBs				
PCB 1242	4.62			
Total PCBs	4.62	0.92	Yes	1
Total RCRA Metals				
Arsenic	3.90	7.5 or SB ⁽²⁾	No	16
Barium	472	300 or SB ⁽²⁾	Yes	400
Chromium	21.1	10 or SB ⁽²⁾⁽³⁾	Yes	180
Lead	5840	SB ⁽²⁾⁽⁴⁾	Yes	400
Total organic carbon				
	4600			

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Circled results exceed RRSCOs

Table 1-3
Sample Location: TP3

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)
SemiVolatiles			
Fluoranthene	1.30	798	No
Phenanthrene	0.910	92.4	No
Pyrene	1.10	279.3	No
Total RCRA Metals			
Arsenic	5.33	7.5 or SB ⁽²⁾	No
Barium	474	300 or SB ⁽²⁾	Yes
Cadmium	1.54	1 or SB ⁽²⁾	Yes
Chromium	43.2	10 or SB ^{(2)/(3)}	Yes
Lead	124	SB ⁽²⁾⁽⁴⁾	No
Total organic carbon	4200		

RRSCOs

100
100
100
16
400
4.3
180
400

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Circled results exceed RRSCOs

Table 1-4
Sample Location: TP4

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)	RRSCOs
SemiVolatiles				
Benzo(a)anthracene	0.88	1.02	No	1
Benzo(a)pyrene	0.73	3.74	No	1
Benzo(b)fluoranthene	0.66	0.37	Yes	1
Benzo(k)fluoranthene	0.87	0.37	Yes	3.9
Chrysene	0.83	0.14	Yes	3.9
Fluoranthene	2.0	646	No	100
Phenanthrene	1.7	74.8	No	100
Pyrene	6.1	226.1	No	100
Pesticides & PCBs				
Chlordane	0.812	0.68	Yes	4.2
Total RCRA Metals				
Arsenic	4.20	7.5 or SB ⁽²⁾	No	16
Barium	331	300 or SB ⁽²⁾	Yes	400
Cadmium	0.59	1 or SB ⁽²⁾	No	4.3
Chromium	28.7	10 or SB ⁽²⁾⁽³⁾	Yes	180
Lead	91.6	SB ⁽²⁾⁽⁴⁾	No	400
Total organic carbon				
	3400			

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Meets RRSCOs

Table 1-5
Sample Location: TP5

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)
SemiVolatiles			
Benzo(a)anthracene	3.8	3.6	Yes
Benzo(a)pyrene	3.5	13	No
Benzo(b)fluoranthene	3.9	1.32	Yes
Benzo(k)fluoranthene	4.5	1.32	Yes
Chrysene	3.7	0.48	Yes
Fluoranthene	8.2	2280	No
Phenanthrene	6.0	264	No
Pyrene	7.4	798	No
Pesticides & PCBs			
PCB 1254	0.74		
Total PCBs	0.74	2.4	No
Total RCRA Metals			
Arsenic	7.70	7.5 or SB ⁽²⁾	Yes
Barium	247	300 or SB ⁽²⁾	No
Cadmium	1.87	1 or SB ⁽²⁾	Yes
Chromium	19.3	10 or SB ⁽²⁾⁽³⁾	Yes
Lead	210	SB ⁽²⁾⁽⁴⁾	No
Mercury	0.29	0.1	Yes
Total organic carbon	12000		

RRSCOs

1
1
1
3.9
3.9
100
100
100
1
16
400
4.3
180
400
0.81

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Circled results exceed RRSCOs

Table 1-6
Sample Location: TP6

Detected Parameter	Test Result (ppm)	Adjusted TAGM Guideline ⁽¹⁾ (ppm)	Exceeds TAGM? (Y/N)	RRSCOs
SemiVolatiles				
Anthracene	0.86	322	No	100
Benzo(a)anthracene	1.30	1.38	No	1
Benzo(a)pyrene	1.10	5.06	No	1
Benzo(b)fluoranthene	1.10	0.51	Yes	1
Benzo(k)fluoranthene	1.20	0.51	Yes	3.9
Bis(2-ethylhexyl)phthalate	0.830	200.1	No	no SCO
Chrysene	1.2	0.18	Yes	3.9
Fluoranthene	2.8	874	No	100
Phenanthrene	3.0	101.2	No	100
Pyrene	2.5	305.9	No	100
Total RCRA Metals				
Arsenic	4.34	7.5 or SB ⁽²⁾	No	16
Barium	251	300 or SB ⁽²⁾	No	400
Chromium	18.2	10 or SB ⁽²⁾⁽³⁾	Yes	180
Lead	68	SB ⁽²⁾⁽⁴⁾	No	400
Total organic carbon	4600			

Notes

- ⁽¹⁾ TOC adjusted TAGM Recommended Soil Cleanup Objectives to protect Groundwater (NYSDEC, 2000)
NYSDEC TAGM values adjusted from 1% TOC for organic chemicals and 5% for PCBs to reflect actual soil TOC concentrations.
Recommended Soil Cleanup Objectives for metals are not adjusted for TOC.
- ⁽²⁾ SB= Site Background Value. No samples were collected for site backgrounds. TAGM numerical values are used for comparison with site concentrations. For lead, 500 ppm is used.
- ⁽³⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports New York State Site Background for Chromium = 1.5 - 40 ppm.
- ⁽⁴⁾ TAGM Recommended Soil Cleanup Objectives (NYSDEC, 2000) reports that background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Circled results exceed RRSCOs

LYL
845-255-3042

LEL?

Ecosystems Strategies, Inc.

24 Davis Avenue, Poughkeepsie, New York 12603-2332

Environmental Services and Solutions

TEL: 845-452-1658 • FAX: 845-485-7083

• mail@ecosystemsstrategies.com

July 6, 2005

Joyle
rec'd. 7/26/06

Christopher Lynch
Ginsburg Development Corporation
245 Saw Mill River Road
Hawthorne, NY 10532

via EMAIL: clynch@ginsburg.ny

Re: 1009 Lower South Street, City of Peekskill, Westchester County, New York
ESI File: GP04187A.21

Dear Mr. Lynch:

This letter constitutes an interim summary of environmental conditions on the above-referenced property as defined by the investigative services completed by Ecosystems Strategies, Inc. (ESI) in June 2005. A complete report will be forthcoming.

Environmental conditions are as follows:

1. Stockpile of Petroleum-Contaminated Soil

The stockpile soil has been tested for disposal purposes. Waste characterization test results indicate that the soil pile can be disposed of as non-hazardous contaminated soil. However, there are elevated concentrations of PCBs in every sample analyzed from the stockpile; therefore, soil disposal charges are anticipated to be in the range of \$80-\$75 per ton. Current estimate of the pile is 4,500 tons (\$270,000 - \$337,500).

2. Integrity of Remaining soils from Excavation Area

The area where the stockpile was excavated was inspected by ESI personnel and additional test pits were extended for the purpose of determining whether or not additional contaminated soil was present in this portion of the site. Test results from soil samples collected at these test pits indicate that no additional petroleum-contaminated soils are present in this portion of the site.

3. Stockpile of Scraped Surface Soils

A small pile of soils generated, according to the site owner, by scraping surface soils for use as cover soils is present in the northern portion of the Site. This pile is estimated at between 150 and 250 cubic yards. Soil tests of this pile indicate that elevated concentrations of metals and PCBs are present, making these soils unacceptable for surface cover in the opinion of ESI. Removal of these soils or on-site reuse as subgrade fill is recommended; on-site reuse should only be completed after review of these data with the NYSDEC.

Ecosystems Strategies, Inc.

Environmental Services and Solutions

C. Lynch

July 6, 2005

ESI File: GP04197A.21

Page 2 of 2

4. Soil Samples Throughout the Site

Approximately ten test pits were extended throughout the site to document the presence or absence of buried material (e.g., regulated solid waste, ash, etc.) and to document concentrations of organic and inorganic contaminants. Soil samples support the conclusion that elevated metals are present throughout the site, with lead and mercury consistently being present at concentrations exceeding NYSDEC guidance values. Low levels of PAHs and PCBs were also present in some of these soils samples. The on-site soils are not considered by ESI to be acceptable as surface soils but do not represent a concern if left undisturbed. Additional soils or the paving of this site will eliminate exposure concerns.

5. Surface Soil Samples inside Building

Three surface soil samples were collected inside the southern work shed to document the presence or absence of elevated metals in surface soils. Significantly elevated concentrations of lead and mercury were identified in two of the three samples; surface soils inside of this structure may require disposal as a regulated hazardous waste if disturbed.

Please give me a call at 845-452-1658, should you have any questions.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.



Paul H. Ciminello
President

PHC:cpr

cc: File

SUBSURFACE INVESTIGATION REPORT

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

PREPARED FOR:

**MR. DAVID DEGREGORIO
CITY OF PEEKSKILL
DEPARTMENT OF PLANNING
840 MAIN STREET
PEEKSKILL, NEW YORK 10566**

PREPARED BY:

**HYDROENVIRONMENTAL SOLUTIONS, INC.
ENVIRONMENTAL CONSULTANTS
ONE DEANS BRIDGE ROAD
SOMERS, NEW YORK 10589
(914) 276-2560**

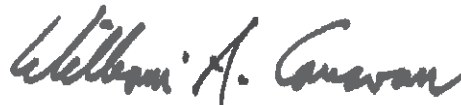
November 9, 2010

Prepared by:



**Timothy J. Bishop
Environmental Scientist
Project Manager**

Reviewed by:



**William A. Canavan, CPG
President**



**HydroEnvironmental
SOLUTIONS, INC**



LEGEND

TP-5 Test pit location with soil sample collected for PD field screening and laboratory analysis

FIGURE 2



**HydroEnvironmental
SOLUTIONS, INC.**
One Duane Bridge Road
Somers, New York 10589

OCTOBER 2010

SUBSURFACE
INVESTIGATION

GENERALIZED
SITE PLAN SHOWING
PARCEL LOCATIONS AND
TEST PIT LOCATIONS

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

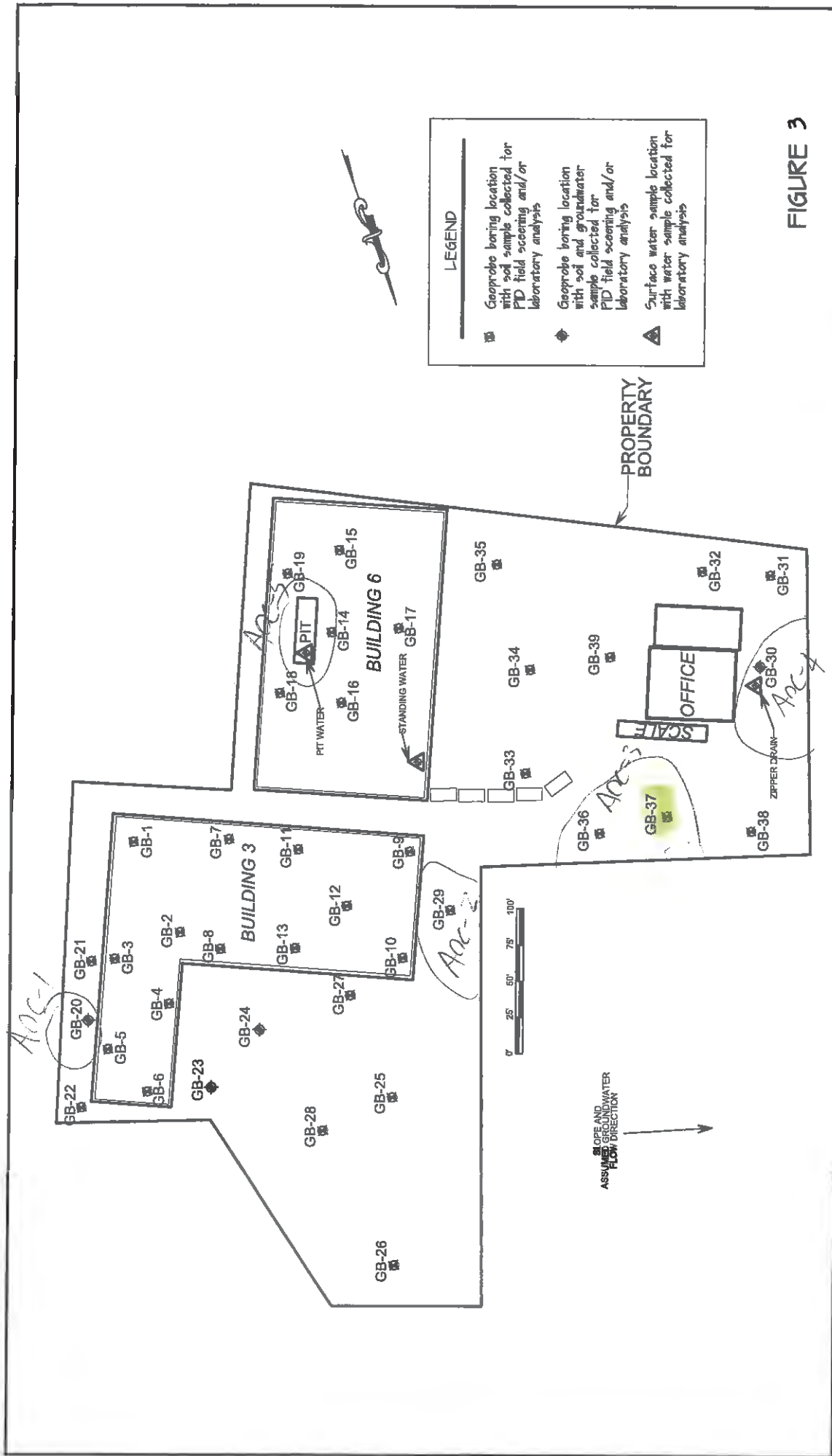


FIGURE 3

KARTA CORPORATION 1013-1017 LOWER SOUTH STREET PEEKSKILL, NEW YORK	GENERALIZED SITE PLAN SHOWING GEOPROBE BORING LOCATIONS	OCTOBER 2010	SUBSURFACE INVESTIGATION
--	---	----------------------------	--

Soil removal action
occurred in 2011
by SITES

TABLE 1

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

**Summary of PID Field Screening Results - Test Pit Excavation
September 24, 2010**

Sample No.	Depth	PID Reading	Notes
TP-1	6-7.5	8.3	C&D debris consisting of concrete, brick, wood, lumber, piping, fencing, re-bar, stairway railings, asphalt and wire.
TP-2	4	7.0	C&D debris consisting of concrete, brick, wood, lumber, piping, fencing, re-bar, stairway railings, asphalt and wire.
TP-3	1.5	82.1	Steel post detected by magnetometer. Groundwater at 19-inches below grade with free-phase petroleum.
TP-4	2	33.6	Historic fill consisting of incinerator ash, scrap metal, broken glass, whole glass bottles, brick with brown medium sand layer 6-8 ftbg.
TP-5	8-9	3.4	Historic fill consisting of incinerator ash, scrap metal, broken glass, whole glass bottles, brick with brown medium sand layer 6-8 ftbg.
TP-6	10	1.8	Historic fill consisting of incinerator ash, scrap metal, broken glass, whole glass bottles, brick with brown medium sand layer 6-8 ftbg. Medium-large boulders encountered.
TP-7	8	4.1	C&D debris consisting of concrete, brick, wood, lumber, piping, fencing, re-bar, stairway railings, asphalt and wire.

PID (photoionization detector) readings in parts per million, calibration gas equivalents
Depth in feet below grade
Highest PID reading was recorded above

TABLE 2

Results meet RRSCOs

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

Summary of Soil Quality Results – Volatile Organics

Unrestricted
700 ppb EPA Method 8260 1000 260 12,000 930

Sample	Depth (ftbg)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	n-Butylbenzene	MTBE	Total VOCs
TP-1	6-7.5	09/24/10	ND	ND	ND	ND	ND	ND	17.9
TP-2	4-6	09/24/10	ND	ND	ND	ND	ND	ND	21.2
TP-3	1-2	09/24/10	ND	54.1	10.9	24.26	ND	ND	312.36
TP-4	7.5-8	09/24/10	ND	ND	ND	ND	ND	ND	292.19
TP-7	6-8	09/24/10	ND	ND	ND	ND	ND	ND	ND
GB-1	4-8	09/28/10	ND	ND	ND	ND	ND	ND	75.7
GB-6	4-8	09/28/10	ND	ND	ND	7.63	ND	ND	139.64
GB-8	0-4	09/28/10	ND	ND	ND	ND	ND	ND	343.54
GB-10	4-8	09/28/10	ND	ND	ND	ND	ND	ND	268.5
GB-11	4-8	09/28/10	ND	ND	ND	ND	ND	ND	31.8
GB-14	4-8	09/28/10	ND	ND	ND	ND	ND	ND	38.4

TABLE 2

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

Results meet RRSCOs

Summary of Soil Quality Results – Volatile Organics

EPA Method 8260

GB-16	2-6	09/28/10	ND	ND	11.4	15.89	ND	ND	495.1
GB-19	0-4	09/28/10	ND	ND	ND	ND	ND	ND	40.5
GB-20	2-4	09/28/10	ND	ND	ND	ND	ND	ND	206
GB-24	0-4	09/29/10	ND	ND	ND	ND	ND	ND	ND
GB-26	0-4	09/29/10	ND	ND	ND	5.04	ND	ND	60.88
GB-28	8-11	09/29/10	ND	ND	8.66	32.5	ND	ND	760.17
GB-29	8-11	09/29/10	ND	ND	ND	ND	ND	ND	ND
GB-30	8-12	09/29/10	ND	ND	ND	ND	ND	ND	82.01
GB-31	5-7	09/29/10	ND	ND	ND	ND	ND	ND	ND
GB-32	2-4	09/29/10	ND	ND	ND	5.96	ND	ND	103.4
GB-33	4-6	09/29/10	ND	17.4	43.2	151.7	ND	24.2	1,061.3
GB-34	3-4	10/04/10	ND	ND	ND	ND	ND	ND	ND
GB-35	6.5	10/04/10	ND	ND	ND	ND	ND	ND	ND

TABLE 2

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

Results meet RRSCOs

Summary of Soil Quality Results – Volatile Organics

EPA Method 8260

GB-36	2.5	10/04/10	ND	ND	48	14.19	ND	ND	529.54
GB-37	6-7	10/04/10	7.22	10.8	85.7	221.8	ND	37.3	1,915.97
GB-38	2-3.5	10/04/10	ND	ND	ND	ND	ND	ND	ND
GB-39	7	10/04/10	ND	ND	ND	ND	ND	ND	85.74
NYSDEC Rec. Cleanup Objectives (TAGM 4046)			60	1,500	5,500	1,200	10,000	120	10,000

Results in µg/Kg (micrograms per kilogram)

ND = Not Detected

ftbg = feet below grade

BOLD = Exceeds NYSDEC-RSCOs

700

1,000

260

12,000

930

TABLE 3

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

Results meet RRSCOs

Summary of Soil Quality Results – Semivolatile Organics

Sample	Depth (ftbg)	Date	EPA Method 8270							Total SVOCs
			20,000 Acenaphthene	100,000 Anthracene	100,000 Fluoranthene	30,000 Fluorene	12,000 Naphthalene	100,000 Unrest. ppb Phenanthrene	100,000 Pyrene	
TP-1	6-7.5	09/24/10	ND	ND	6,870	ND	3.24	4,640	5,610	28,983.24
TP-2	4-6	09/24/10	2,700	2,880	15,100	ND	ND	12,500	11,100	74,800
TP-3	1-2	09/24/10	ND	ND	9,980	ND	137	7,220	7,480	43,927
TP-4	7.5-8	09/24/10	ND	ND	ND	ND	5.04	ND	ND	5.04
TP-7	6-8	09/24/10	ND	ND	2,690	ND	ND	2,520	2,040	7,250
GB-1	4-8	09/28/10	ND	ND	2,770	ND	ND	2,270	2,330	7,370
GB-6	4-8	09/28/10	ND	ND	ND	5,320	16	4,260	3,600	13,196
GB-8	0-4	09/28/10	3,430	8,450	24,900	2,730	20	20,500	15,600	122,380
GB-10	4-8	09/28/10	ND	ND	7,580	ND	ND	3,610	5,670	26,870
GB-11	4-8	09/28/10	3,720	8,190	38,500	2,200	ND	ND	23,800	187,350
GB-14	4-8	09/28/10	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

Results meet RRSCOs

Summary of Soil Quality Results – Semivolatile Organics

EPA Method 8270

GB-16	2-6	09/28/10	ND	1,970	11,500	ND	34.5	6,320	9,000	56,830
GB-19	0-4	09/28/10	ND	ND	ND	ND	ND	ND	ND	ND
GB-20	2-4	09/28/10	ND	ND	1,250	ND	19.2	ND	818	2,087.2
GB-24	0-4	09/29/10	ND	880	5,490	ND	ND	3,820	4,990	30,870
GB-26	0-4	09/29/10	ND	ND	8,050	ND	4.26	5,230	6,160	32,600
GB-28	8-11	09/29/10	3,220	4,180	15,700	2,380	3,250	15,900	206	66,127.4
GB-29	8-11	09/29/10	ND	ND	1,270	ND	ND	ND	939	2,209
GB-30	8-12	09/29/10	ND	ND	ND	ND	ND	ND	ND	ND
GB-31	5-7	09/29/10	ND	ND	1,330	ND	ND	1,160	1,010	5,573
GB-32	2-4	09/29/10	2,070	2,090	10,200	ND	87.2	6,300	8,460	44,570
GB-33	4-6	09/29/10	ND	ND	4,920	ND	92.7	3,530	3,060	11,602.7
GB-34	3-4	10/04/10	ND	ND	ND	ND	ND	ND	ND	ND
GB-35	6.5	10/04/10	ND	ND	792	ND	ND	ND	ND	792

TABLE 3

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

Results meet RRSCOs

Summary of Soil Quality Results – Semivolatile Organics

EPA Method 8270

GB-36	2.5	10/04/10	3,420	4,850	19,400	2,410	371	11,700	20,500	115,401
GB-37	6-7	10/04/10	17,500	27,400	97,300	15,500	10,700	98,900	80,400	537,800
GB-38	2-3.5	10/04/10	ND	ND	5,420	ND	6.92	3,060	3,530	19,306.92
GB-39	7	10/04/10	ND	ND	1,040	ND	ND	ND	911	1,951
NYSDEC Rec. Cleanup Objectives (TAGM 4046)			50,000	50,000	50,000	50,000	13,000	50,000	50,000	500,000

Results in µg/Kg (micrograms per kilogram)

ND = Not Detected

ftbg = feet below grade

BOLD = Exceeds NYSDEC-RSCOs

TABLE 4

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK

○ Circled results exceed
RRSCOs

PPM

Summary of Soil Quality Results – Total RCRA Metals and PCBs

EPA Method 200.7 & EPA Method 8082

Sample	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	PCBs
TP-6	27	214	0.743	15.3	343	5.41	1.49	0.139	NA
GB-4	ND	ND	ND	ND	ND	ND	ND	ND	NA
GB-8	ND	ND	ND	ND	ND	ND	ND	ND	NA
GB-12	ND	ND	ND	ND	ND	ND	ND	ND	NA
GB-16	ND	ND	ND	ND	ND	ND	ND	ND	0.232
GB-29	6.87	115	0.281	15.4	102	4.34	1.19	0.104	NA
GB-30	ND	ND	ND	ND	ND	ND	ND	ND	NA
GB-32	ND	ND	ND	ND	ND	ND	ND	ND	NA
GB-34	3.45	62.9	0.220	7.89	9.96	4.22	1.16	0.0454	NA
GB-37	6.38	661	3.44	22.3	670	5.03	1.38	1.28	0.597
NYSDEC Rec. Cleanup Objectives (TAGM 4046)	7.5/SB	300/SB	1/SB	10/SB	200-500	2/SB	SB	0.1	10

Results in ppm (parts per million)

ND = Not Detected (above laboratory MDLs)

NA = Not Analyzed

SB = Site Background

BOLD = Exceeds NYSDEC-RSCO

13 350 2.5 30 63 3.9 2 0.18 0.1
16 400 4.3 36 110 400 380 180 0.81
16 400 9.3 1,000 2.8

Unrestricted
Residential
Commercial

TABLE 5

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

**Summary of Groundwater and Surface Water Quality Results
September-October 2010**

1 5 5 5 5 10

EPA Method 8260

Sample	Benzene	Toluene	Ethylbenzene	Total Xylenes	n-Butylbenzene	MTBE	Total VOCs
GB-20GW	ND	ND	ND	ND	ND	ND	6.67
GB-30GW	ND	ND	ND	ND	ND	ND	ND
Standing Water	ND	ND	ND	ND	ND	ND	5.82
Zipper Drain	ND	ND	ND	ND	ND	ND	7.02
Pit Water	ND	84.4	2.77	5.26	ND	ND	126.9
Field Blank 09/28/10	ND	ND	ND	ND	ND	ND	ND
Field Blank 09/29/10	ND	ND	ND	ND	ND	ND	ND
Field Blank 10/01/10	ND	ND	ND	ND	ND	ND	ND
Field Blank 10/04/10	ND	ND	ND	ND	ND	ND	ND
Trip Blank 09/29/10	ND	ND	ND	ND	ND	ND	ND
Trip Blank 10/04/10	ND	ND	ND	ND	ND	ND	ND
NYSDEC Groundwater Quality Standards	0.7	5	5	5	5	10	—

Results in µg/L (micrograms per liter)

ND = Not Detected

BOLD = Exceeds NYSDEC-GWQS

From pit within
building 6, not a
test pit

ponded water in
the "lower portion
of Building 6"

TABLE 5

**KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK**

**Summary of Groundwater and Surface Water Quality Results
September-October 2010**

EPA Method 8270

10

Sample	Acenaphthene	Anthracene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Total SVOCs
GB-20GW	ND	ND	ND	ND	ND	ND	ND	ND
GB-30GW	ND	ND	ND	ND	ND	ND	ND	ND
Standing Water	ND	ND	ND	ND	ND	ND	ND	ND
Zipper Drain	ND	ND	ND	ND	ND	ND	ND	ND
Pit Water	ND	ND	ND	ND	2.65	ND	ND	ND
Field Blank 09/28/10	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank 09/29/10	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank 10/01/10	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank 10/04/10	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank 09/29/10	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank 10/04/10	ND	ND	ND	ND	ND	ND	ND	ND
NYSDEC Groundwater Quality Standards	20	5	5	5	10	5	5	--

Results in µg/L (micrograms per liter)

ND = Not Detected

BOLD = Exceeds NYSDEC-GWQS

**ENVIRONMENTAL SITE INVESTIGATION (SI)
CITY OF PEEKSKILL
PARCEL 5 AND 6 LOWER SOUTH STREET,
CITY OF PEEKSKILL, WESTCHESTER COUNTY,
NEW YORK**

PREPARED FOR:

**CITY OF PEEKSKILL
840 MAIN STREET
PEEKSKILL, NY 10566**

PREPARED BY:

**TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.
70 PLEASANT HILL ROAD
MOUNTAINVILLE, NEW YORK 10953**

October 25, 2011


PETER T. SUTHERLAND, P.E. NO. 075840

TECTONIC

Practical Solutions, Exceptional Service

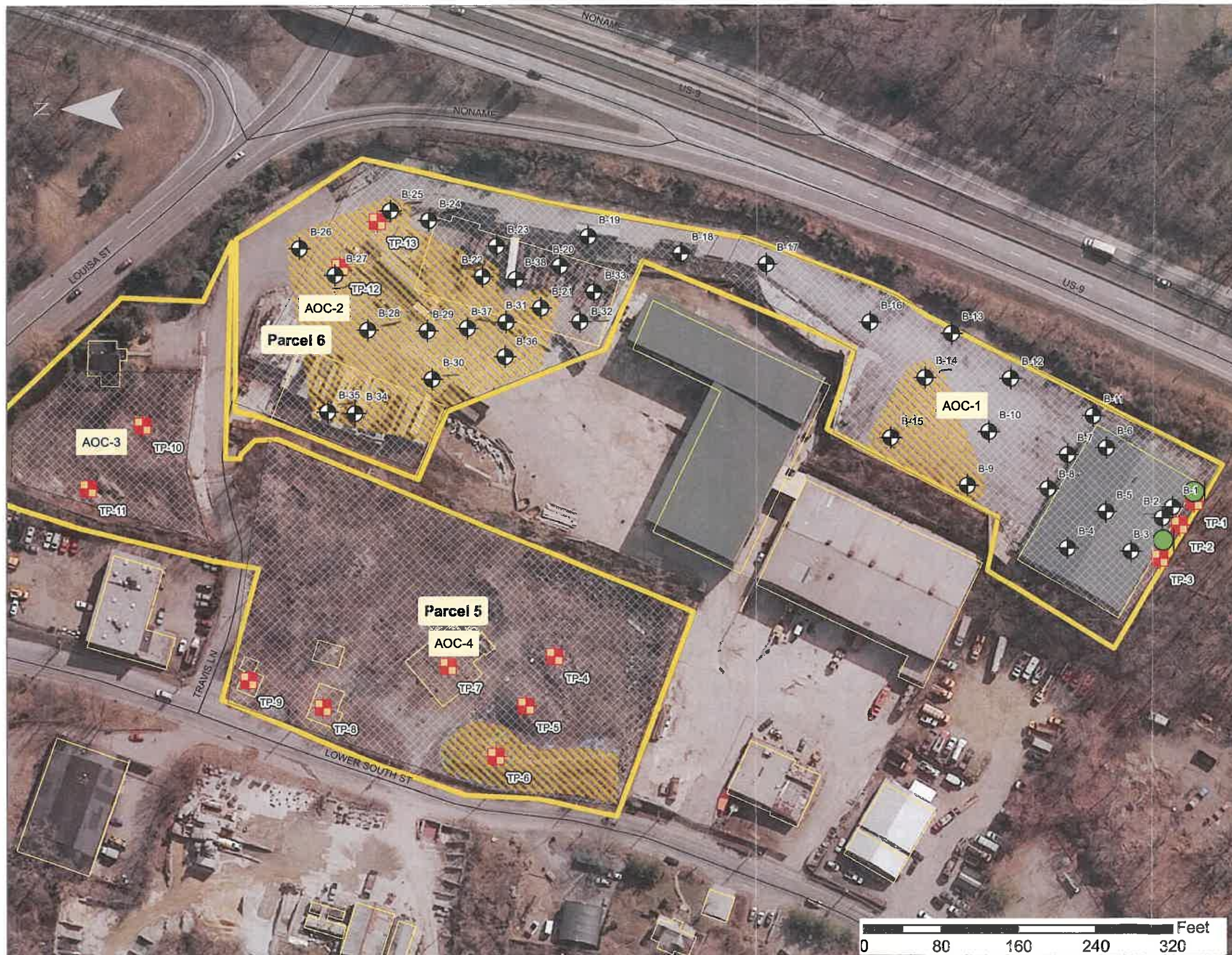


Figure #5
AREA OF CONCERN
LOCATION PLAN

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

AUGUST 2011

Legend

-  ASTs
-  Boring Locations
-  Investigation Parcels
-  Roads
-  PCB Soil (Approximate)
-  Areas of Concern
-  Structures
-  Test Pit Locations

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01
COPYRIGHT TECTONIC 2011

This map is computer generated using data acquired by Tectonic from various sources and is intended only for reference, conceptual planning and presentation purposes. This map is not intended for and should not be used to establish boundaries, property lines, location of objects or to provide any other information typically needed for construction or any other purpose when engineered plans or land surveys are required.

Geodatabase Location: G:GIS\PROJECTS\PEEKSKILL



TABLE 4-Soil Sample Results Summary
W.O. 5886.01
Lower South Street, Peekskill, NY



Volatile Organic Compounds (VOCs)

Sample ID	Part 375-6.8(a)	TP-6	
Lab Sample Number	Unrestricted	C3194-01	
Sampling Date	Soil Cleanup	8/1/2011	
Matrix	Objectives	SOIL	
Dilution Factor		1	
Units	ppb	ug/Kg	
COMPOUND	CAS #		
Benzene	71-43-2 60	3.6 J	
Cyclohexane	110-82-7	2.6 J	
Ethyl Benzene	100-41-4 1,000	1.9 J	
Isopropylbenzene	98-82-8	1.2 J	
m/p-Xylenes	179601-23-1	8 J	
Methyl tert-butyl Ether	1634-04-4 930	3.7 J	
Methylcyclohexane	108-87-2	11	
Methylene Chloride	75-09-2 50	3.7 JB	
o-Xylene	95-47-6	2.9 J	
Toluene	108-88-3 700	0.78 J	
Total Concentration.		39.38	
Total TICs		686.1	

Semi-Volatile Organic Compounds (SVOCs)

Sample ID	Part 375-6.8(a)	TP-6	
Lab Sample Number	Unrestricted	C3194-01	
Sampling Date	Soil Cleanup	8/1/2011	
Matrix	Objectives	SOIL	
Dilution Factor		1	
Units	ppb RRSCOs	ug/Kg	
COMPOUND	CAS #		
2-Methylnaphthalene	91-57-6	200 J	
Anthracene	120-12-7 100,000	260 J	
Benzo(a)anthracene	56-55-3 1,000	770 J	
Benzo(a)pyrene	50-32-8 1,000	1400 J	
Benzo(b)fluoranthene	205-99-2 1,000	1100 J	
Benzo(g,h,i)perylene	191-24-2 100,000	870 J	
Benzo(k)fluoranthene	207-08-9 800	310 J	
bis(2-Ethylhexyl)phthalate	117-81-7	14000 D	
Butylbenzylphthalate	85-68-7	900 J	
Chrysene	218-01-9 1,000	790 J	
Di-n-butylphthalate	84-74-2	190 J	
Fluoranthene	206-44-0 100,000	1200	
Indeno(1,2,3-cd)pyrene	193-39-5 500	840 J	
Phenanthrene	85-01-8 100,000	810 J	
Pyrene	129-00-0 100,000	2000	
Total Concentration.		23440	
Total TICs		15920	

TPH

Sample ID	Part 375-6.8(a)	TP-6	
Lab Sample Number	Unrestricted	C3194-01	
Sampling Date	Soil Cleanup	8/1/2011	
Matrix	Objectives	SOIL	
Dilution Factor		50	
Units		ug/kg	
COMPOUND	CAS #		
Petroleum Hydrocarbons		5744222	
Total Concentration.		5744222	

Metals

Sample ID	Part 375-6.8(a)	TP-6	
Lab Sample Number	Unrestricted	C3194-01	
Sampling Date	Soil Cleanup	8/1/2011	
Matrix	Objectives	SOIL	
Dilution Factor		1	
Units	mg/Kg	mg/Kg	
COMPOUND	CAS #	RRSCOs	
Aluminum	7429-90-5	6220	
Antimony	7440-36-0	3.04	
Arsenic	7440-38-2 13	16	
Barium	7440-39-3 350	174	
Beryllium	7440-41-7 7.2	0.197 JN	
Cadmium	7440-43-9 2.5	4.3	
Calcium	7440-70-2	7780	
Chromium	7440-47-3 30	180	
Cobalt	7440-48-4	11.2 N	
Copper	7440-50-8 50	270	
Iron	7439-89-8	48400	
Lead	7439-92-1 63	400	
Magnesium	7439-95-4	4160	
Manganese	7439-96-5 1600	288 N	
Mercury	7439-97-6 0.18	0.81	
Nickel	7440-02-0 30	310	
Potassium	7440-09-7	952	
Silver	7440-22-4 2	0.834	
Sodium	7440-23-5	588	
Vanadium	7440-62-2	28.8 N	
Zinc	7440-66-6 109	10,000	
Total Concentration.		70144.171	
Hexavalent Chromium	18540-29-9	0.14 J	
Total Concentration.		0.14	

PCBs

Sample ID	Part 375-6.8(a)	TP-6	
Lab Sample Number	Unrestricted	C3194-01	
Sampling Date	Soil Cleanup	8/1/2011	
Matrix	Objectives	SOIL	
Dilution Factor		1	
Units	ppb	ug/Kg	
COMPOUND	CAS #		
Aroclor-1242	53469-21-9	1800 DP	
Total Concentration.	100	1,000	1800

TCLP Metals

Sample ID	Part 371	TP-6	
Lab Sample Number	Unrestricted	C3194-06	
Sampling Date	Table 1	8/1/2011	
Matrix	Toxicity Characteristics	TCLP	
Dilution Factor	for Haz. Waste	1	
Units	ug/L	ug/L	
COMPOUND	CAS #		
Barium	7440-39-3 100,000	1330	
Lead	7439-92-1 5,000	416	
Total Concentration.		1746	
Total TICs			

Reactive Sulfide and Cyanide

Sample ID	TP-6	
Lab Sample Number	C3194-06	
Sampling Date	8/1/2011	
Matrix	SOIL	
Dilution Factor	1	
Units	mg/Kg	
COMPOUND	CAS #	
Reactive Sulfide		10 U
Reactive Cyanide		0.05 U
Total Concentration.		0
Total TICs		

Ignitability

Sample ID	TP-6	
Lab Sample Number	C3194-06	
Sampling Date	8/1/2011	
Matrix	SOIL	
Dilution Factor	1	
Units	o C	
COMPOUND	CAS #	
Ignitability		NO
Total Concentration.		NO
Total TICs		

Corrosivity

Sample ID	TP-6	
Lab Sample Number	C3194-06	
Sampling Date	8/1/2011	
Matrix	SOIL	
Dilution Factor	1	
Units	pH	
COMPOUND	CAS #	
Corrosivity (as pH)		7.88
Total Concentration.		7.88
Total TICs		

Qualifiers

- U - The compound was not detected at the indicated concentration.
- N - Presumptive Evidence of a Compound
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration 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.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) - The reported value is estimated because of the presence of interference.
- D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed

Circled results exceed
RRSCOs

TABLE 2B-Soil Sample Results Summary
Semi-Volatile Organic Compounds (SVOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	5	5	5	5	5	5	5	1	5	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																			
Anthracene	120-12-7	100,000	7.6 U	7.4 U	6.9 U	7.2 U	7.1 U	7.4 U	73 J	400 J	39 U	120 U	110 U	41 U	1000 J	2000 J	330 J	1400 J	24 U	140 J
Benzo(a)anthracene	56-55-3	1,000	.18 U	.17 U	.16 U	.17 U	.17 U	.17 U	300 J	1400 J	810 J	2400 J	1200 J	370 J	4600 J	7700 J	1200 J	6100 J	57 U	560 J
Benzo(a)pyrene	50-32-8	1,000	8.1 U	7.8 U	7.3 U	7.6 U	7.6 U	7.9 U	340 J	1600 J	1200 J	2600 J	1400 J	410 J	5200 J	9000 J	1200 J	6000 J	26 U	590 J
Benzo(b)fluoranthene	205-99-2	1,000	12 U	12 U	11 U	12 U	11 U	12 U	400	1900 J	740 J	3000 J	1800 J	500 J	6000 J	11000 J	1400 J	7000 J	39 U	720 J
Benzo(g,h,i)perylene	91-24-2	100,000	15 U	15 U	14 U	14 U	14 U	15 U	220 J	970 J	680 J	1500 J	1000 J	290 J	3300 J	5300 J	660 J	3400 J	48 U	370 J
Benzo(k)fluoranthene	207-08-9	800	18 U	17 U	16 U	17 U	16 U	17 U	140 J	780 J	89 U	1100 J	260 U	94 U	2300 J	3200 J	610 J	2800 J	56 U	250 J
bis(2-Ethylhexyl)phthalate	117-81-7		120 J	120 J	67 J	96 J	53 J	80 J	120 J	1500 J	1400 J	4600 J	4300 J	1600 J	4500 J	4800 J	1100 J	4200 J	990 J	930 J
Butylbenzylphthalate	85-68-7		18 U	17 U	16 U	17 U	17 U	18 U	18 U	95 U	91 U	280 U	260 U	96 U	270 U	280 U	53 U	260 U	57 U	810 J
Chrysene	218-01-9	1,000	17 U	16 U	15 U	16 U	16 U	17 U	310 J	1500 J	1100 J	2500 J	1300 J	380 J	4800 J	7900 J	1300 J	6000 J	54 U	560 J
Dibenz(a,h)anthracene	53-70-3	330	11 U	10 U	9.8 U	10 U	10 U	11 U	11 U	280 J	54 U	170 U	160 U	58 U	890 J	1500 J	200 J	920 J	34 U	31 U
Fluoranthene	206-44-0	100,000	7.5 U	7.3 U	6.8 U	7.1 U	7 U	7.3 U	500	2600	850 J	4500 J	1900 J	630 J	8700	14000	2300	12000	24 U	1000 J
Indeno(1,2,3-cd)pyrene	193-39-5	500	12 U	12 U	11 U	12 U	12 U	12 U	180 J	910 J	330 J	1500 J	890 J	270 J	3100 J	5100 J	650 J	3200 J	39 U	350 J
Phenanthrene	85-01-8	100,000	10 U	9.8 U	9.2 U	9.5 U	9.5 U	9.9 U	290 J	1400 J	590 J	2200 J	770 J	260 J	3700 J	6000	1200	4900 J	32 U	510 J
Pyrene	129-00-0	100,000	9 U	8.7 U	8.1 U	8.5 U	8.4 U	8.8 U	450	2300	1200 J	4400 J	1900 J	540 J	7800	12000	1900	11000	28 U	900 J
Total Concentration.																				
Total TICs																				
Qualifiers																				
U - The compound was not detected at the indicated concentration.																				
N - Presumptive Evidence of a Compound																				
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.																				
The concentration 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.																				
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.																				
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.																				
E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.																				
E (inorganics) - The reported value is estimated because of the presence of interference.																				
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.																				
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.																				
NR - Not analyzed																				

RRSCOs
1,000
1,000
1,000
100,000
3,900
3,900

Circled results exceed
RRSCOs

TABLE 2E-Soil Sample Results Summary
PCBs
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7	
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18	
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'	
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07	
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
COMPOUND	CAS #																				
Aroclor-1248	12672-29-6	RRSCOs	7.4 U	7.1 U	6.7 U	7 U	6.9 U	7.2 U	7.6 U	23 U	23 U	23 U	22 U	24 U	22 U	140	22 U	22 U	23 U	21 U	
Aroclor-1254	11097-69-1		11 J	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U	5.3 U	5.1 U	270	4.9 U	5.4 U	5.1 U	5.2 U	63	5 U	5.3 U	4.8 U	
Total Concentration.		100 1,000	11	0	0	0	0	0	0	0	0	270	0	0	0	140	63	0	0	0	
Total TICs																					

- Qualifiers**
- U - The compound was not detected at the indicated concentration.
 - N - Presumptive Evidence of a Compound
 - J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
The concentration 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.
 - P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
 - * For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
 - E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
 - E (Inorganics) - The reported value is estimated because of the presence of interference.
 - D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
 - * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
 - NR - Not analyzed

Results meet RRSCOs

TABLE 2F-Soil Sample Results Summary
Metals
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7	
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18	
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'	
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07	
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Units		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND	CAS #																				
Aluminum	7429-90-5	RRSCOs	7900	8940	13000	24000	16300	22800	13300	9990	12500	6530	6310	8490	7840	7330	8370	12500	18300	10400	
Antimony	7440-36-0	1.1	0.528 U	0.535 U	0.421 U	0.413 U	0.439 U	0.409 U	0.466 U	0.66 J	0.64 U	0.937 J	0.506 U	0.494 U	0.639 J	2.7	0.493 U	0.474 U	0.5 U	0.447 U	
Arsenic	7440-38-2	13 16	1.52 N	4.17 N	1.01	0.805 J	0.585 J	1.16	1.77	4.14	4.07	3.89	6.99	4.33	4.06	5.06	3.94	4.08	2.75	1.69	
Barium	7440-39-3	350 400	137	38.6	567	625	800	362	426	318	313	108	89.9	185	127	235	149	169	79.7	257	
Beryllium	7440-41-7	7.2	0.153 JN	0.369 N	0.119 JN	0.205 JN	0.118 JN	0.193 JN	0.145 JN	0.218 J	0.27 J	0.28	0.236 J	0.246 J	0.252 J	0.253 J	0.272	0.323	0.341	0.16 J	
Cadmium	7440-43-9	2.5	0.057 UN	0.057 UN	0.088 J	0.253	0.096 J	0.044 U	0.116 J	0.395	0.229 J	0.363	0.38	0.291	0.121 J	3.14	0.079 J	0.092 J	0.07 J	0.07 J	
Calcium	7440-70-2		4190	247	8050 N	7030 N	6510 N	6300 N	5180 N	32100	39300	53500	51000	47200	71300	27300	53200	21000	4680	8260	
Chromium	7440-47-3	30 180	24.2 N	9.48 N	36.1	41.5	35.8	20.3	26.7	23 N	38.1 N	16.2 N	13.1 N	18.3 N	15 N	19.5 N	30.7 N	19.5 N	25.5 N	22.5 N	
Cobalt	7440-48-4		16.7 N	6.7 N	23.3	31.2	27.9	21	20.8	13.1 N	18.8 N	5.76 N	6.91 N	11.1 N	7.36 N	9.89 N	8.06 N	15.2 N	17.1 N	16.2 N	
Copper	7440-50-8	50 270	24.4	15.3	36.1	35.4	32.1	27.9	26.8	45.5	39.8	47.2	27.6	32.8	20.5	56.9	19.3	36	37.2	40.5	
Iron	7439-89-6		14400	15800	18600	41000	22400	17900	17700	20100	20000	9980	11600	14300	11200	17900	12800	18400	19300	17400	
Lead	7439-92-1	63 400	1.5	5.98	0.936	1.03	0.877	2.26	9.63	109	59.1	142	47.9	70.5	47.5	378	31.7	36.5	14.6	10.1	
Magnesium	7439-95-4		3400	2850	5450	15800	8200	8270	5990	15400	12200	9700	9830	17100	21900	5850	8250	12800	5970	5500	
Manganese	7439-96-5	1600	127 N	219 N	93.4	288	119	110	97.2	241	254	207	206	261	178	241	248	197	205	176	
Mercury	7439-97-6	0.18 0.81	0.002 U	0.007 J	0.008 J	0.003 J	0.002 U	0.02	0.038	0.217	0.17	0.27	0.08	0.197	0.057	1.11 D	0.045	0.093	0.048	0.022	
Nickel	7440-02-0	30	16.4	13.3	24.5	29.5	27	17.1	23.9	20.5	24.3	13.1	12.9	17.9	11.9	22.4	14.4	22.5	26.3	19.8	
Potassium	7440-09-7		1300	402	4320	4060	5440	2460	3540	2870	2960	1650	1480	2120	1840	1320	3390	1620	657	3280	
Silver	7440-22-4	2	0.141 U	0.143 U	0.113 U	0.111 U	0.117 U	0.11 U	0.125 U	0.136 U	0.171 U	0.258 J	0.136 U	0.132 U	0.134 U	0.217 J	0.132 U	0.127 U	0.134 U	0.12 U	
Sodium	7440-23-5		466	237	1170 N*	896 N*	867 N*	1110 N*	743 N*	559 N	999 N	787 N	663 N	787 N	581 N	957 N	1080 N	863 N	444 N	657 N	
Thallium	7440-28-0		0.254 U	0.258 U	0.203 U	0.199 U	0.211 U	0.271 J	0.225 U	0.245 U	0.309 U	0.246 U	0.244 U	0.238 U	0.241 U	0.228 U	0.238 U	0.229 U	0.241 U	0.216 U	
Vanadium	7440-62-2		54.3 N	13.1 N	91.5	104	98	34.8	74.1	46 N	57.1 N	18.9 N	23.6 N	32.6 N	29.2 N	30 N	32.5 N	42.9 N	56.9 N	51.4 N	
Zinc	7440-66-6	109 10,000	23.6	41.8	31.4	65.7	39.6	32.1	36.1	147	96.5	198	87.5	104	64.9	280	50	67.3	44.2	37.5	
Total Concentration.			32082.83	28843.863	51495.5	94008.4	60898.08	59469.1	47196.3	81987.73	88864.439	82909.158	81406.096	90735.264	115167.489	61941.06	87677.996	67793.488	49860.709	46129.942	
Hexavalent Chromium	18540-29-9	1	0.088 U	0.087 U	0.12 J	0.13 J	0.12 J	0.13 J	0.091 U	0.097 U	0.11 J	0.092 U	0.088 U	0.095 U	0.1 J	0.11 J	0.087 U	0.087 U	0.11 J	0.1 J	
Total Concentration.			0	0	0.12	0.13	0.12	0.13	0	0	0.11	0	0	0	0.1	0.11	0	0	0.11	0.1	
Total TICs																					

Qualifiers

- U - The compound was not detected at the indicated concentration.
- N - Presumptive Evidence of a Compound
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.
The concentration 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.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) - The reported value is estimated because of the presence of interference.
- D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed

Circled results exceed
RRSCOs

TABLE 3B-Soil Sample Results Summary
Semi-Volatile Organic Compounds (SVOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6"	2'-4"	2'-4"	1'-3"	1'-3"	2'-4"	2'-4"	1'-3"	1'-3"	1'- 4.5"	1'- 4.5"	2'-4"	2'-4"	2'-4"	0'-2"	2'-4"	2'-4"	0'-2"	1'-3"	0.5'-2.5"		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/28/2011	7/26/2011	7/28/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			5	5	5	5	20	5	5	1	5	5	5	5	5	5	5	10	10	5	5	1	5	5
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	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #	RRSCOS																						
Acenaphthene	83-32-9	20,000	170 U	150 U	3000 J	160 U	5200 J	160 U	160 U	65 U	160 U	190 U	770 J	160 U	160 U	160 U	150 U	1500 J	310 U	180 U	150 U	440 J	180 U	4400 J
Anthracene	120-12-7	100,000	770 J	1700 J	7400	110 U	12000 J	110 U	110 U	440 J	120 U	1300 J	1500 J	980 J	1200 J	120 U	110 U	2800 J	1400 J	1400 J	110 U	440 J	120 U	7300
Benzo(a)anthracene	56-55-3	1,000	2900 J	1900 J	16000	1300 J	23000	710 J	890 J	1300 J	860 J	2700 J	2900 J	4200 J	2800 J	810 J	260 U	5300 J	5000 J	4100 J	1300 J	950 J	270 U	8300
Benzo(a)pyrene	50-32-8	1,000	3200 J	1500 J	14000	1300 J	21000 J	120 U	850 J	1200 J	720 J	2400 J	2400 J	4600 J	2600 J	790 J	120 U	4100 J	4800 J	4700 J	1300 J	1000 J	120 U	6800
Benzo(b)fluoranthene	205-99-2	1,000	3500 J	2100 J	18000	1700 J	31000	850 J	1100 J	1600 J	910 J	3000 J	3300 J	6300	3600 J	1100 J	720 J	5300 J	5600 J	5300 J	1700 J	1200 J	190 U	9200
Benzo(g,h,i)perylene	191-24-2	100,000	1800 J	220 U	5600 J	230 U	11000 J	230 U	230 U	680 J	230 U	2100 J	1300 J	2100 J	1200 J	230 U	220 U	2200 J	3000 J	2600 J	780 J	530 J	230 U	3200 J
Benzo(k)fluoranthene	207-08-9	800	1500 J	710 J	6000 J	270 U	9300 J	260 U	260 U	700 J	270 U	1300 J	1100 J	2200 J	1000 J	270 U	250 U	2000 J	2000 J	1900 J	250 U	450 J	270 U	2700 J
bis(2-Ethylhexyl)phthalate	117-81-7	3,900	4500 J	1100 J	1300 J	890 J	790 U	200 U	1300 J	1800 J	880 J	1000 J	850 J	200 U	740 J	200 U	190 U	400 U	390 U	4800 J	190 U	1200 J	200 U	200 U
Butylbenzylphthalate	85-68-7		280 U	260 U	1500 J	270 U	1100 U	270 U	270 U	110 U	270 U	320 U	280 U	280 U	270 U	270 U	260 U	540 U	520 U	270 U	260 U	980 J	270 U	270 U
Carbazole	86-74-8		130 U	120 U	1800 J	120 U	3900 J	120 U	120 U	51 U	120 U	150 U	130 U	850 J	120 U	120 U	120 U	1500 J	240 U	120 U	120 U	28 U	120 U	3700 J
Chrysene	218-01-9	1,000	2900 J	1900 J	14000	1300 J	26000	850 J	900 J	1400 J	840 J	2600 J	2700 J	5100 J	2700 J	850 J	240 U	5600 J	5500 J	4000 J	1300 J	980 J	260 U	7300
Dibenz(a,h)anthracene	53-70-3	330	170 U	160 U	1600 J	160 U	3100 J	160 U	160 U	67 U	160 U	190 U	170 U	160 U	160 U	150 U	320 U	310 U	310 U	810 J	150 U	170 J	160 U	980 J
Dibenzofuran	132-64-9		230 U	210 U	1200 J	220 U	3800 J	220 U	220 U	90 U	220 U	260 U	230 U	230 U	220 U	220 U	210 U	1800 J	430 U	220 U	210 U	220 J	220 U	2900 J
Fluoranthene	206-44-0	100,000	5000 J	5200 J	29000	2400 J	62000	1900 J	1800 J	2100 J	2000 J	5800 J	6800	9400	5900	1600 J	1100 J	14000	8500 J	6700	2600 J	2100	110 U	18000
Fluorene	86-73-7	30,000	220 U	980 J	2900 J	210 U	8000 J	210 U	210 U	310 J	210 U	860 J	940 J	220 U	210 U	220 U	200 U	1400 J	410 U	210 U	200 U	400 J	210 U	5200 J
Indeno(1,2,3-cd)pyrene	193-39-5	500	1700 J	180 U	5400 J	190 U	8900 J	190 U	190 U	590 J	190 U	1300 J	1000 J	1600 J	940 J	190 U	180 U	1900 J	2100 J	2600 J	180 U	520 J	190 U	2500 J
Naphthalene	91-20-3	12,000	200 U	190 U	230 U	190 U	770 U	190 U	2000 J	2200 J	200 U	230 U	200 U	750 J	200 U	200 U	180 U	390 U	380 U	190 U	180 U	45 U	200 U	190 U
Phenanthrene	85-01-8	100,000	2300 J	4500 J	19000	870 J	46000	880 J	1500 J	1000 J	2200 J	3500 J	4600 J	5900	4000 J	720 J	140 U	16000	6500 J	4000 J	1800 J	1400	150 U	20000
Pyrene	129-00-0	100,000	4400 J	4300 J	26000	2500 J	51000	1600 J	1700 J	1900 J	1700 J	4900 J	5700 J	8000	5000 J	1400 J	970 J	13000	9600 J	6000	2500 J	1800	140 U	14000
Total Concentration.			34570	25890	173700	12260	325200	6790	12040	17360	10110	32760	35660	51980	31680	7270	2790	78400	54000	48910	13280	14780	0	116260
Total TICs			5700	140800	144400	7200	64600	3800	38200	207400	26400	82900	24400	10400	11800	11300	3000	16600	11000	8800	4000	11890	5100	34100

Qualifiers

- U - The compound was not detected at the indicated concentration.
- N - Presumptive Evidence of a Compound
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration 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.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) - The reported value is estimated because of the presence of interference.
- D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed

Circled results exceed RRSCOS

TABLE 3E-Soil Sample Results Summary
PCBs
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-B.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4,5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0,5-2,5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1'- 4.5'	1'- 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #	RRSCOS																						
Aroclor-1242	53469-21-9		12 U	11 U	14 U	12 U	3.8 U	18000 D	11 U	24 U	12 U	14 U	12 U	12 U	12 U	12 U	11 U	3.8 U	3.7 U	11 U	630	13 U	11 U	12 U
Aroclor-1248	12672-29-6		23 U	22 U	190	22 U	7.4 U	7.4 U	180	46 U	630 P	230	280 P	110	200	23 U	21 U	31	53	22 U	21 U	26 U	22 U	22 U
Aroclor-1254	11097-69-1		5.2 U	4.9 U	5.9 U	5.1 U	1.7 U	1.7 U	5 U	10 U	5.1 U	6 U	5.2 U	5.1 U	5.1 U	5.1 U	4.8 U	1.7 U	1.6 U	290	4.8 U	5.8 U	5 U	1700 D
Aroclor-1260	11096-82-5		14 U	500	16 U	14 U	4.6 U	4.6 U	14 U	29 U	450 P	17 U	14 U	14 U	14 U	14 U	13 U	4.6 U	4.5 U	14 U	13 U	16 U	14 U	14 U
Total Concentration.	100	1,000	0	500	190	0	0	2500	180	0	1080	230	280	110	200	0	0	31	53	290	630	0	0	1800

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the Identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration 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.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

Circled results exceed
RRSCOS

TABLE 3F-Soil Sample Results Summary
Metals
W.O. 5886.01
Lower South Street, Peekskill, NY



Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6"	2'-4"	2'-4"	1'-3"	1'-3"	2'-4"	2'-4"	1'-3"	1'-3"	1'- 4.5'	1'- 4.5'	2'-4"	2'-4"	2'-4"	0'-2"	2'-4"	2'-4"	0'-2"	1'-3"	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND	CAS #																							
Aluminum	7429-90-5	RRSCOS	.0900	.8890	.9780	.12700	.4740	.5780	.14900	.11200	.10700	.10100	.9050	.7910	.13000	.8940	.11800	.6310	.4730	.6590	.5940	.9480	.2740	.7900
Antimony	7440-38-0		0.531 U	0.47 UN	1.72 JN	7.5 N	0.471 U	0.487 U	1.27 JN	1.02 UN	1.33 JN	0.725 JN	0.487 UN	0.492 UN	0.473 JN	0.526 UN	0.8 UN	0.483 U	0.648 J	0.549 J	0.79 J	0.534 U	1.88 J	4.56
Arsenic	7440-38-2	13 16	2.37	5.84	5.68	3.4	2.44	2.74	7.63	21.1	11.1	14	4.13	4.47	5.48	7.07	3.48	4.45	3.39	4.01	4.11	22.7	12.3 N	0.328 U
Barium	7440-39-3	350 400	.162	.136	.258	.131	.58.8	.83	.291	.244	.74.8	.142	.125	.93.4	.283	.110	.232	.78.8	.71.4	.71.8	.124	.90	.52.8	.118 N
Beryllium	7440-41-7	7.2	0.235 J	0.287	0.319	0.359	0.185 JN	0.198 JN	0.358	0.345 J	0.405	0.874	0.351	0.268	0.31	0.281 J	2.45	0.294 N	0.217 JN	0.294	0.218 J	0.262 J	0.115 JN	0.333
Cadmium	7440-43-9	2.5	0.224 J	0.372	1.48	0.238 J	0.149 J	0.164 J	1.37	1.43	0.274	0.489	0.324	0.531	0.554	0.429	0.32 J	0.252 J	0.341	0.317	0.336	0.241 J	0.548 N	0.343
Calcium	7440-70-2		.10600	.33700	.29600	.38900	.35600 N	.33300 N	.50100	.58400	.87000	.57800	.63400	.45800	.48500	.68500	.36500	.46800 N	.38800 N	.82000	.54700	.13800	.33000	.56000
Chromium	7440-47-3	30 180	.19.5 N	.25.4	.22	.21.9	.7.19	.13	.23.8	.43.7	.20.9	.48.6	.22.4	.16.8	.27.4	.20.3	.32	.13	.13.3	.11.4 N	.15.1 N	.44.6 N	.13.8 N	.20.3 N
Cobalt	7440-48-4		.16.7 N	.10.8	.8.81	.10.5	.5.82	.4.78	.17.6	.12.9	.10.8	.14.4	.7.66	.7.5	.14.6	.10.3	.16	.5.38	.5.25	.6.52 N	.7.35 N	.12.1 N	.13.7 N	.8.97
Copper	7440-50-8	50 270	.35.3	.31.1	.70.9	.24.3	.12.1	.15.6	.59.3	.95.3	.24	.118	.25.3	.75.6	.55.4	.33	.42	.21.9	.31.5	.28.1	.31.3	.43.7	.203	.38.7
Iron	7439-89-6		.18000	.16400	.17400	.16800	.9330	.8460	.29900	.21600	.19900	.18200	.15200	.14600	.20300	.14000	.19100	.11100	.10600	.12000	.11000	.13700	.17400	.16100
Lead	7439-92-1	63 400	.43.3	.57.7	.318	.20.2	.20.4	.37.3	.145	.95.7	.33.9	.147	.70.1	.93.5	.87.5	.88.9	.51.7	.60.4	.72.8	.60.1	.57.4	.83.2	.94.3	.65.9
Magnesium	7439-95-4		.8900	.9990	.5230	.9850	.18400	.7900	.32600	.14200	.20500	.18400	.12300	.14300	.13700	.19400	.9330	.8540	.10400	.18300	.17800	.4780	.16100	.15400 N
Manganese	7439-96-5	1600	.215	.281	.300	.309	.183	.188	.308	.361	.414	.325	.288	.279	.270	.221	.246	.210	.189	.228	.225	.127	.857 N	.225
Mercury	7439-97-6	0.18 0.81	.0.192	.0.112	.2.49 D	.0.08	.0.06	.0.077	.0.188	.0.12	.0.101	.0.172	.0.134	.0.214	.0.504	.0.079	.0.064	.0.137	.0.829 D	.0.134	.0.15	.0.164	.0.053	.0.164
Nickel	7440-02-0	30	.20.5	.19.8	.21.9	.18	.10.8	.9.4	.24.8	.21.1	.21.8	.25.5	.15.6	.14.8	.23.1	.18	.29.2	.11	.11.2	.11.7	.13.5	.18.9	.12.4	.21.6
Potassium	7440-09-7		.1880	.2290	.1510	.2360	.874	.1440	.2460	.3120	.1740	.2160	.1890	.1550	.3400	.2120	.3220	.1210	.1060	.1370	.2110	.1370	.518	.2030
Selenium	7782-49-2	3.8	.0.389 U	.0.344 U	.0.397 U	.0.364 U	.0.345 U	.0.342 U	.0.342 U	.0.743 U	.0.338 U	.0.433 U	.0.356 U	.0.36 U	.0.322 U	.0.385 U	.0.439 U	.0.354 U	.0.352 U	.0.334 U	.0.309 U	.0.391 U	.0.316 U	.1.15
Silver	7440-22-4	2	.0.142 U	.0.126 U	.0.326 J	.0.133 U	.0.126 U	.0.125 U	.0.237 J	.0.272 U	.0.124 U	.0.158 U	.0.13 U	.0.16 J	.0.118 U	.0.141 U	.0.161 U	.0.13 U	.0.129 U	.0.122 U	.0.113 U	.0.143 U	.0.116 U	.0.149 U
Sodium	7440-23-5		.604 N	.928 N	.829 N	.619 N	.347 N*	.647 N*	.907 N	.2110 N	.728 N	.1150 N	.1130 N	.822 N	.1320 N	.897 N	.952 N	.637 N*	.487 N*	.739 N	.643 N	.1130 N	.586	.697
Thallium	7440-28-0		.0.256 U	.0.226 U	.0.261 U	.0.265 J	.0.227 U	.0.225 U	.0.225 U	.0.489 U	.0.222 U	.0.285 U	.0.235 U	.0.405 J	.0.212 U	.0.253 U	.0.532 J	.0.452 J	.0.269 J	.0.22 U	.0.204 U	.0.257 U	.0.208 U	.0.872 J
Vanadium	7440-62-2		.43.8 N	.37.3	.35.5	.33.2	.21.6	.19.2	.50.6	.42.6	.22.3	.26.8	.24.6	.27.4	.50.9	.31.9	.55.5	.19.1	.16.4	.27 N	.25.3 N	.33.1 N	.20 N	.30.8 N
Zinc	7440-66-6	109 10,000	.69.1	.98	.336	.55.7	.44.1	.67.9	.248	.777	.79.8	.720	.165	.227	.154	.83.6	.118	.78.9	.88.3	.97	.108	.108	.783	.109
Total Concentration.			49492.221	72882.181	65729.51	81864.642	69657.414	57958.359	132046.153	112347.315	141283.51	109391.14	103719.086	85823.538	101193.221	112482.385	81730.846	75099.065	66381	101545.924	92605.554	44843.967	72378.894	98772.492
Hexavalent Chromium	18540-29-9	1	.0.094	.0.088 U	.0.103 U	.0.088 U	.0.14 J	.0.089 U	.0.13 J	.0.27 J	.0.088 U	.0.16 J	.0.093 U	.0.082 U	.0.083 U	.0.62	.0.084 U	.0.092 U	.0.13 J	.0.1 J	.0.083 U	.0.12 J	.0.13 J	.0.091 U
Total Concentration.			0	0	0	0	0.14	0	0.13	0.27	0	0.16	0	0	0	0.62	0	0	0.13	0.1	0	0.12	0.13	0

Total TICs

Qualifiers

- U - The compound was not detected at the indicated concentration.
- N - Presumptive Evidence of a Compound
- J - Data Indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration 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.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- E (Organics) - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
- E (Inorganics) - The reported value is estimated because of the presence of interference.
- D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed

Circled results exceed RRSCOs



Figure #4
SOIL GAS SAMPLE
LOCATION PLAN

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

AUGUST 2011

Legend

-  Soil Gas Test Locations
-  Investigation Parcels
-  Roads
-  Structures
-  Streams

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01
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This map is computer generated using data acquired by Tectonic from various sources and is intended only for reference, conceptual planning and presentation purposes. This map is not intended for and should not be used to establish boundaries, property lines, location of objects or to provide any other information typically needed for construction or any other purpose when engineered plans or land surveys are required.

Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

TABLE 5-Soil Gas Sample Results Summary
W.O. 5886.01
Lower South Street, Peekskill, NY
TO-15 Air



Sample ID		SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7	SV-8
Lab Sample Number		C3227-01	C3227-03	C3227-04	C3227-02	C3227-07	C3227-05	C3227-06	C3227-08
Sampling Date		8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011
Matrix		AIR	AIR	AIR	AIR	AIR	AIR	AIR	AIR
Dilution Factor		10	1	10	1	1	1	1	4
Units		Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3
COMPOUND	CAS #								
1,1,2-Trichlorotrifluoroethane	76-13-1	3.07 U	0.46 J	3.07 U	0.46 J	0.46 J	0.46 J	0.38 J	1.23 U
1,2,4-Trichlorobenzene	120-82-1	2.97 U	0.3 U	2.97 U	0.3 U	0.3 U	0.3 U	0.3 U	14.2 J
1,2,4-Trimethylbenzene	95-63-6	2703	2.26 J	3342	48.2	1.92 J	5.9	0.49 J	23.6 J
1,2-Dichlorobenzene	95-50-1	4.21 U	0.42 U	4.21 U	0.72 J	0.42 U	0.42 U	0.42 U	6.73 J
1,3,5-Trimethylbenzene	108-67-8	211 J	0.69 J	137 J	16.7	0.49 J	2.7	0.44 U	7.87 J
1,4-Dichlorobenzene	108-46-7	48.1 J	0.36 U	3.61 U	0.36 U	0.36 J	0.72 J	0.36 U	12.5 J
2,2,4-Trimethylpentane	540-84-1	1.68E+07 EC	2.52	1.16E+07 EC	11.2	1120 D	9.81	0.93 J	345636 D
2-Butanone	78-93-3	174	25.7	501	27.7	26.8	13.6	0.83 J	330
4-Ethyltoluene	622-98-8	540	0.39 U	3.93 U	3.64	0.39 U	1.13 J	0.39 U	1.57 U
4-Methyl-2-Pentanone	108-10-1	2.46 U	0.49 J	2.46 U	1.6 J	1.68 J	2.01 J	0.41 J	0.98 U
Acetone	67-84-1	2.38 U	736 D	2086	1116 D	1116 D	593 D	6.65	121148 D
Benzene	71-43-2	4153	1.44 J	51114 D	4.47	2.91	2.36	0.26 J	56.2
Carbon Disulfide	75-15-0	1.56 U	5.92	1307	15	5.29	5.92	0.16 U	94.7
Carbon Tetrachloride	56-23-5	2.52 U	0.44 J	2.52 U	0.38 J	0.38 J	0.38 J	0.38 J	1.01 U
Chloroethane	75-00-3	97.6 J	0.18 U	73.9 J	0.18 U	0.18 U	0.18 U	0.18 U	0.74 U
Chloroform	67-66-3	0.96 U	0.1 U	0.98 U	2.83	0.34 J	0.63 J	0.1 U	0.39 U
Chloromethane	74-87-3	1.24 U	0.7 J	1.24 U	1.09	0.78 J	0.95 J	0.7 J	0.5 U
cis-1,2-Dichloroethane	156-59-2	305	0.24 U	130 J	0.24 U	0.32 J	0.24 U	0.24 U	0.95 U
Cyclohexane	110-82-7	963766 D	0.34 J	103264 D	1.51 J	1.72 J	1.82	0.28 U	564
Dichlorodifluoromethane	75-71-8	74.2 J	0.89 J	1.98 U	0.89 J	0.89 J	0.84 J	0.89 J	0.79 U
Ethyl Benzene	100-41-4	117 J	1.69 J	382	3.78	1 J	2.39	1.87 J	95.6
Heptane	142-82-5	491779 D	0.98 J	13933 E	4.92	3.73	6.56	1.39 J	475
Hexane	110-54-3	1.33E+06 D	1.55 J	222033 D	6.34	7.05	7.05	0.56 J	18736 D
m/p-Xylene	179601-23-1	999	2.13 J	999	5.21	2.39 J	5.21	2.56 J	159
Methyl tert-Butyl Ether	1634-04-4	4686	0.58 J	57885 D	0.79 J	2.42	5.41	0.18 U	34.6
Methylene Chloride	75-08-2	1.74 U	1.01 J	1.74 U	1.11 J	0.76 J	1.08 J	0.76 J	0.69 U
o-Xylene	95-47-6	321	1.87 J	1216	4.26	0.87 J	2.74	0.91 J	85.1
Styrene	100-42-5	2.98 U	0.3 J	2.98 U	3.87	0.6 J	1.62 J	0.55 J	1.18 U
tert-butyl alcohol	75-65-0	3.03 U	0.91 J	3.03 U	2.43	2.97	3.84	0.55 J	48.5
Tetrachloroethene	127-18-4	2.03 U	0.2 J	33.9 J	4	8.82	10.2	0.27 J	22.8 J
Toluene	108-88-3	640	5.28	414	21.1	16.6	753 D	49	482
trans-1,2-Dichloroethene	156-60-5	150 J	0.24 U	2.38 U	0.24 U	0.24 U	0.24 U	0.24 U	0.95 U
Trichloroethene	79-01-6	2.15 U	0.21 U	2.15 U	0.38 J	0.81 J	2.58 J	0.21 U	0.86 U
Trichlorofluoromethane	75-69-4	22.5 J	1.24 J	73.1 J	15.7	4.27	2.53 J	0.84 J	51.7
Vinyl Chloride	75-01-4	1303	0.18 U	196	0.18 U	0.26 J	0.18 U	0.18 U	0.72 U
Total Concentration.		100556	147.49	86296.9	324.28	337.89	266.24	71.18	10986.1

Qualifiers

- U - The compound was not detected at the indicated concentration.
- N - Presumptive Evidence of a Compound
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration 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.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
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- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
- NR - Not analyzed

NYSDOH SVI guidance does not have criteria for soil gas; as a point of reference, the subslab matrix values are shown and exceedences are circled.



**Site Closure
Investigation
Report/Facility
Closure Plan**

800.426.4262
W&C Contact

woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

213949.00
Karta Corp
1013-1017 Lower
South Street,
Peekskill NY

AUG 2013



TABLES

Table 1
Summary of Sampling Program
Investigation Work Plan
Former Karta Corp Site - Peekskill, NY

SAMPLES ⁽³⁾						ANALYTICAL PROGRAM ⁽²⁾						
SAMPLE NO.	ID	AOC ⁽³⁾	Sample Intervals ⁽¹⁾	Sample Type	Sample Matrix	TCL - VOCs	TCL - SVOCs	PP - Metals	PCBs	Pest	Hex. Cr.	Waste Comp ⁽⁵⁾
005	SG-2	AOC-2	5.0'	Soil Gas	Vapor	X						
007	SG-6	AOC-2	5.0'	Soil Gas	Vapor	X						
019	TP-3 GW	AOC-2	---	Ground Water	Aqueous	X	X	X ⁽⁴⁾	X	X	X	
022	TP-8 GW	AOC-2	---	Ground Water	Aqueous	X	X	X ⁽⁴⁾	X	X	X	
002	WC-1	AOC-8	6.0-7.0'	Soil Boring	Soil	X	X	X	X	X	X	
003	WC-2	AOC-9	14.5-15.5'	Soil Boring	Soil	X	X	X	X	X	X	
001	WC-5	AOC-4	1.0-2.0'	Soil Boring	Soil	X	X	X	X	X	X	
023	WCTP-1	AOC-2	6.0-7.0'	Test Pit	Soil	X	X	X	X	X	X	
017	WCTP-2	AOC-2	9.0-10.0'	Test Pit	Soil	X	X	X	X	X	X	
016	WCTP-3	AOC-2	9.0-10.0'	Test Pit	Soil	X	X	X	X	X	X	
015	WCTP-4	AOC-2	9.0-10.0'	Test Pit	Soil	X	X	X	X	X	X	
010	WCTP-5	AOC-2	7.0-8.0'	Test Pit	Soil	X	X	X	X	X	X	
009	WCTP-6	AOC-2	11.0-12.0'	Test Pit	Soil	X	X	X	X	X	X	
011	WCTP-7	AOC-2	3.0-4.0'	Test Pit	Soil	X	X	X	X	X	X	
008	WCTP-7	AOC-2	9.0-10.0'	Test Pit	Soil	X	X	X	X	X	X	
012	WCTP-8	AOC-2	4.0-5.0'	Test Pit	Soil	X	X	X	X	X	X	
013	WCTP-9	AOC-2	2.0-3.0'	Test Pit	Soil	X	X	X	X	X	X	
014	WCTP-9	AOC-2	3.0-4.0'	Test Pit	Soil	X	X	X	X	X	X	
024	WCTP-10	AOC-2	4.5-5.5'	Test Pit	Soil	X	X	X	X	X	X	
028	BS-1	---	1.0-2.0'	Background Soil	Soil		X	X				
029	BS-2	---	0.5-0.8'	Background Soil	Soil		X	X				
032	BS-3	---	1.0-2.0'	Background Soil	Soil		X	X				
027	BS-4	---	1.0-2.0'	Background Soil	Soil		X	X				
030	BS-5	---	0.5-1.0'	Background Soil	Soil		X	X				
031	BS-6	---	0.6-1.0'	Background Soil	Soil		X	X				
035	Comp 1	AOC-2	TP-1,2,3	Waste Composition	Soil							X
036	Comp 2	AOC-2	TP-1,2,3, 10	Waste Composition	Soil							X
037	Comp 3	AOC-2	TP-4,6,7	Waste Composition	Soil							X
038	Comp 4	AOC-2	TP-5,7,8,9	Waste Composition	Soil							X
039	WCTP-9	AOC-2	3.0-4.0'	Waste Composition	Soil							X

Notes:

(1) Soil sample interval based on highest PID and/or one foot above refusal/top of bedrock (TOR) or water table (WT)

(2) Analytical program

TCL-VOC+15 - Target Compound List Volatile Organic Compounds

TCL- SVOCs - Target Compound List Semi-volatile Organic Compounds

PP - Metals - Priority Pollutant Metals List

Hex. Cr. - Hexavalent chromium

PCBS - Polychlorinated biphenyls

(3) Samples

AOC - Area of Concern

(4) Samples analyzed for total (unfiltered) and dissolved (filtered) metals to evaluate the effects of sample turbidity

(5) Samples to be analyzed for Waste Composition by NYSDEC Region 3 SOP for Waste Classification

Table 2
Summary of Soil Analytical Data
Karta - Lower South Street
Peekskill, NY

W&C SAMPLE ID					001		002		003	
LOCATION					WC-5		WC-1		WC-2	
SAMPLING DATE					4/24/2012		4/25/2012		4/25/2012	
LAB SAMPLE ID					L1207297-01/RI		L1207297-02		L1207297-03	
SAMPLE DEPTH (ft.)					1-2		6-7		14.5-15.5	
	RESR	GW	UNRES	Units		Q		Q		Q
Volatile Organic Compounds										
Toluene	100	0.7	0.7	mg/kg	0.011	J	0.0042	U	0.0044	U
Ethylbenzene	41	1	1	mg/kg	0.026	J	0.0028	U	0.0029	U
p/m-Xylene	*100	*1.6	*0.26	mg/kg	0.023	J	0.0056	U	0.0058	U
o-Xylene	*100	*1.6	*0.26	mg/kg	0.03	J	0.0056	U	0.0058	U
Acetone	100	0.05	0.05	mg/kg	0.27		0.15		0.061	
2-Butanone	100	0.12	0.12	mg/kg	0.27	U	0.022	J	0.012	J
n-Butylbenzene	100	5.9	12	mg/kg	0.015	J	0.0028	U	0.0029	U
sec-Butylbenzene	100	11	11	mg/kg	0.015	J	0.0028	U	0.0029	U
n-Propylbenzene	100	3.9	3.9	mg/kg	0.015	J	0.0028	U	0.0029	U
1,2,4-Trimethylbenzene	52	3.6	3.6	mg/kg	0.18		0.014	U	0.014	U

Notes:

Bold - Compound detected above the Reporting Limit (RL)

mg/kg - milligrams per kilogram

NA - Not Analyzed

Q - Qualifier

U - Compound not detected above the reporting limit (RL) shown

J - Estimated Value

P - The Relative Percent Difference (RPD) between the results for the two columns exceeds the method-specified criteria.

R - Unreliable Result; data is rejected or unusable. Analyte may or may not be present in sample

UT - Not detected, quantitation limit may be inaccurate or imprecise.

SCO - Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation

UNRES - NYSDEC Part 375 Soil Cleanup Objective for Unrestricted Use

RESR - NYSDEC Part 375 Soil Cleanup Objective for Restricted Residential Use

GW - NYSDEC Part 375 Soil Cleanup Objective for the Protection of GW

Exceeds GW & UNRES

Exceeds UNRES

Exceeds RESR & UNRES

* Soil Cleanup Objective applies to total Xylenes (p/m-Xylene and o-Xylene)

** The SCO for this speciofic compound is considered to be met if the analysis for the total species of this contaminant is below the specific SCO

Table 3
Summary of Soil Vapor Analytical Data
Karta - Lower South Street
Peekskill, NY

W&C SAMPLE ID		005		007		004	
LOCATION		SG-2		SG-6		AMBIENT	
SAMPLING DATE		4/25/2012		4/25/2012		4/25/2012	
LAB SAMPLE ID		L1207395-01		L1207395-02		L1207395-03	
	Units		Q		Q		Q
Volatile Organic Compounds							
Vinyl chloride	ug/m3	48.6		3.86		0.511	U
Acetone	ug/m3	869		314		7.82	
1,1-Dichloroethene	ug/m3	5.79		2.64	U	0.793	U
Methylene chloride	ug/m3	17.4	U	11.6	U	3.86	
1,1-Dichloroethane	ug/m3	4.13		2.7	U	0.809	U
Methyl tert butyl ether	ug/m3	26.8		2.4	U	0.721	U
2-Butanone	ug/m3	56.3		37.2		0.59	U
cis-1,2-Dichloroethene	ug/m3	8.68		2.64	U	0.793	U
Benzene	ug/m3	111		5.18		0.639	U
Trichloroethene	ug/m3	12.8		3.58	U	1.07	U
Toluene	ug/m3	73.9		3.19		0.878	
Tetrachloroethene	ug/m3	16		4.52	U	1.36	U
Volatile Organic Compounds (SIM)							
Carbon tetrachloride	ug/m3	-		-		0.358	
Tetrachloroethene	ug/m3	-		-		0.142	
Fixed Gases							
Methane	%	0.386		0.138	U	0.14	U

Notes:

Bold - Compound Detected

ug/m3 - micrograms per cubic meter

Q - Qualifier

U - Compound not detected above reporting limit (RL) shown

Table 4
Summary of Test Pit Analytical Data
Karta - Lower South Street
Peekskill, NY

W&C SAMPLE ID					008		011		009		010		012		013		014		015		016		017		018		023		024	
LOCATION					TP-7		TP-7		TP-6		TP-5		TP-8		TP-9		TP-9		TP-4		TP-3		TP-2		TP-X (TP-2)		TP-1		TP-10	
SAMPLING DATE					5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012	
LAB SAMPLE ID					L1207958-01		L1207958-02		L1207958-03		L1207958-04		L1207958-05		L1207958-06		L1207958-07		L1207958-08		L1207958-09		L1207958-10		L1207958-11		L1207958-12		L1207958-13	
SAMPLE DEPTH (ft.)					9-10		3-4		11-12		7-8		4-5		2-3		3-4		9-10		9-10		9-10		—		6-7		4.5-5.5	
	RESR	GW	UNRES	Units		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
General Chemistry																														
Solids, Total	—		—	%	77		87		84		88		90		87		89		88		76		79		82		84		87	
Pesticides																														
Dieldrin	0.2	0.1	0.005	mg/kg	0.0631	U	0.055	U	0.0567	U	0.0544	U	0.0528	U	0.0296	J	0.054	U	0.0556	U	0.025	U	0.0246	U	0.0231	U	0.0581	U	0.0402	
4,4'-DDD	13	14	0.0033	mg/kg	0.101	U	0.088	U	0.0908	U	0.087	U	0.0844	U	0.0887	U	0.0864	U	0.089	U	0.04	U	0.0279	J	0.0347	J	0.0929	U	0.0352	
4,4'-DDT	7.9	136	0.0033	mg/kg	0.189	U	0.165	U	0.17	U	0.163	U	0.158	U	0.166	U	0.162	U	0.167	U	0.075	U	0.0738	U	0.0693	U	0.174	U	0.0339	
Endosulfan sulfate	24	1000	2.4	mg/kg	0.042	U	0.0366	U	0.0378	U	0.0362	U	0.0352	U	0.037	U	0.036	U	0.0371	U	0.00833	J	0.0164	U	0.00924	J	0.0387	U	0.00734	
cis-Chlordane	4.2	2.9	0.094	mg/kg	0.126	U	0.0396	J	0.113	U	0.109	U	0.106	U	0.0562	J	0.0371	J	0.111	U	0.015	J	0.0208	J	0.0171	J	0.111	J	0.0498	
PCBs																														
Aroclor 1242	1	3.2	0.1	mg/kg	0.0587		0.0889		0.0769		0.185	U	0.0391		0.0372	U	0.0273	J	0.0615		0.342		0.313		0.332		0.0382	U	0.037	
Aroclor 1254	1	3.2	0.1	mg/kg	0.0493		0.0754		0.207		1.14	1.14	0.0333	J	0.0431		0.0209	J	0.051		0.183		0.127		0.197		0.0421		0.0586	
Aroclor 1260	1	3.2	0.1	mg/kg	0.0157	J	0.0227	J	0.0618		1.04		0.0203	J	0.0133	J	0.0364	U	0.0147	J	0.0867		0.0543		0.0609		0.0143	J	0.0163	
Total PCBs	1	3.2	0.1	mg/kg	0.1237		0.187		0.2688		2.365		0.0927		0.0564		0.0482		0.1272		0.6117		0.4943		0.5899		0.0564		0.0749	
Semivolatile Organic Compounds																														
Acenaphthene	100	98	20	mg/kg	6.8	U	1.4	J	4.7	U	4.5	U	5.8	U	4.5	U	4.4	U	4.5	U	4.6	J	4.2	J	3.2	J	4.7	U	6	
Fluoranthene	100	1000	100	mg/kg	15		15		6.4		8.4		20		15		6.1		12		45		39		30		15		14	
Naphthalene	100	12	12	mg/kg	8.5	U	5.6	U	5.8	U	5.6	U	7.2	U	5.6	U	5.5	U	5.6	U	6.5	U	3	J	7.9	U	5.8	U	7.5	
Benzo(a)anthracene	1	1	1	mg/kg	5.6		6.4		3.1	J	3.4		8		6.3		2.6	J	5.5		21		17		12		6.6		6.1	
Benzo(a)pyrene	1	22	1	mg/kg	5.1	J	5.6	J	2.6	J	3.2	J	6.6	J	6	J	2.4	J	5.9	J	18	J	15	J	10	J	6	J	3.9	
Benzo(b)fluoranthene	1	1.7	1	mg/kg	6.5		7		3.5		4.1		8.6		8.4		3.7		7		21		19		14		7.6		7.4	
Benzo(k)fluoranthene	3.9	1.7	0.8	mg/kg	2.2	J	7.7	J	1.5	J	1.6	J	2.9	J	2.7	J	1.2	J	2.6	J	9	J	7.5	J	5.1	J	2.8	J	2.7	
Chrysene	3.9	1	1	mg/kg	5.6	5.6	6.2	6.2	3.1	J	3.6	3.6	8		6.6		3.3		6.5		21		16		12		6.9		6.4	
Acenaphthylene	100	107	100	mg/kg	6.8	U	4.5	U	4.7	U	4.5	U	5.8	U	4.5	U	4.4	U	4.5	U	5.2	U	6.6	U	6.3	U	4.7	U	6	
Anthracene	100	1000	100	mg/kg	2.7	J	3.4	J	1.1	J	1.2	J	6.1	J	2	J	3.3	U	1.8	J	10		8.7		7.2		2.4	J	2	
Benzo(ghi)perylene	100	1000	100	mg/kg	3.3	J	3.2	J	1.8	J	2	J	3.8	J	3.9	J	1.9	J	4	J	11		8.3		6	J	3.6	J	3.8	
Fluorene	100	386	30	mg/kg	8.5	U	1.5	J	5.8	U	5.6	U	7.2	U	5.6	U	5.5	U	1.2	J	5.5	J	4.9	J	3.7	J	5.8	U	7.5	
Phenanthrene	100	1000	100	mg/kg	13		11		3.6		5.6		22		9.6		3.5		8.3		37		29		20		7.7		8.9	
Dibenzo(a,h)anthracene	0.33	1000	0.33	mg/kg	5.1	U	3.4	U	3.5	U	3.3	U	4.3	U	3.3	U	1.9	1.9	J	2.3	J	4.4	J	2.1	J	4.8	U	3.5	U	4.5
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	mg/kg	1.5	J	3.5	J	1.9	J	2.1	J	4.1	J	4.3	J	4.9	4.9	J	6.5	J	13	J	9.2	J	7.3	J	3.8	J	4.2
Pyrene	100	1000	100	mg/kg	12		12		5.2		6.7		18		12		4.8		9.8		36		31		24		12		11	
Dibenzofuran	—	—	7	mg/kg	8.5	U	5.6	U	5.8	U	5.6	U	7.2	U	5.6	U	5.5	U	5.6	U	3.1	J	2.6	J	2	J	5.8	U	7.5	

Illegible lab results have been typed over using concentrations on provided lab reports that were included in the DUSR.

Circled results exceed
RRSCOs

Table 4
Summary of Test Pit Analytical Data
Karta - Lower South Street
Peekskill, NY

W&C SAMPLE ID					008		011		009		010		012		013		014		015		016		017		018		023		024	
LOCATION					TP-7		TP-7		TP-6		TP-5		TP-8		TP-9		TP-9		TP-4		TP-3		TP-2		TP-X (TP-2)		TP-1		TP-10	
SAMPLING DATE					5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/2/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012	
LAB SAMPLE ID					L1207958-01		L1207958-02		L1207958-03		L1207958-04		L1207958-05		L1207958-06		L1207958-07		L1207958-08		L1207958-09		L1207958-10		L1207958-11		L1207958-12		L1207958-13	
SAMPLE DEPTH (ft.)					9-10		3-4		11-12		7-8		4-5		2-3		3-4		9-10		9-10		9-10		—		6-7		4.5-5.5	
	RESR	GW	UNRES	Units		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
Total Metals																														
Arsenic, Total	16	16	13	mg/kg	4.2		3.9		3.6		5.8		3.9		4.3		2.6		4.9		7.3		6.6		10		6.7		3.8	
Barium, Total	400	820	350	mg/kg	200		140		140		160		93		95		98		67		240		200		170		140		100	
Beryllium, Total	72	47	7.2	mg/kg	0.31		0.28		0.25		0.26		0.29		0.34		0.17	J	0.18	J	0.25		0.23	J	0.23		0.32		0.29	
Cadmium, Total	4.3	7.5	2.5	mg/kg	0.24	J	0.19	J	0.81		0.24	J	0.2	J	0.14	J	0.23	J	0.16	J	3.9		0.96		1.2		0.38	J	0.12	J
Chromium, Hexavalent	110	19	1	mg/kg	1	U	0.92	U	0.95	U	0.91	U	0.89	U	0.92	U	0.9	U	0.91	U	1	U	0.24	J	0.98	U	0.95	U	0.92	U
Chromium, Trivalent	**180	—	**30	mg/kg	20		20.08		31.05		21.09		16.11		16.08		20.01		12.09		25		21.76		28.02		20.05		16.08	
Chromium, Total	**180	—	**30	mg/kg	21		21		32		22		17		17		21		13		26		22		29		21		17	
Copper, Total	270	1720	50	mg/kg	50		67		160		46		30		31		50		64		110		110		89		61		31	
Lead, Total	400	450	63	mg/kg	140		110		110		100		57		57		82		60		350		280		260		120		66	
Manganese, Total	2000	2000	1600	mg/kg	300		320		220		240		240		290		180		240		280		270		250		290		240	
Mercury, Total	0.81	0.73	0.18	mg/kg	0.17		0.24		4.8		0.18		0.14		0.06	J	0.1		0.65		0.25		0.74		1.6		0.3		0.21	
Nickel, Total	310	130	30	mg/kg	18		15		19		17		14		13		12		11		22		27		21		15		14	
Selenium, Total	180	4	3.9	mg/kg	0.87	J	0.78	J	0.68	J	0.81	J	0.4	J	0.55	J	0.51	J	0.72	J	0.69	J	0.95		0.95		0.76	J	0.6	J
Silver, Total	180	8.3	2	mg/kg	0.2	J	0.3	J	0.34	J	0.15	J	0.11	J	0.25	J	0.11	J	0.15	J	0.38	J	0.39	J	0.74		0.16	J	0.15	J
Zinc, Total	10000	2480	109	mg/kg	150		270		320		260		160		110		130		100		290		350		420		170		110	
Volatile Organic Compounds																														
Benzene	2.9	0.06	0.06	mg/kg	0.0032	U	0.0029	U	0.003	U	0.0028	U	0.0028	U	0.0029	U	0.0028	U	0.0028	U	0.001	J	0.0032	U	0.003	U	0.003	U	0.0029	U
Toluene	100	0.7	0.7	mg/kg	0.0049	U	0.0043	U	0.00088	U	0.0043	U	0.0011	J	0.0043	U	0.0042	U	0.0043	U	0.001	J	0.0047	U	0.0046	U	0.004	J	0.0043	U
Ethylbenzene	41	1	1	mg/kg	0.0032	U	0.0029	U	0.003	U	0.0014	J	0.0016	J	0.0029	U	0.0028	U	0.0026	J	0.0031	J	0.0065		0.0069		0.0019	J	0.0029	U
Trichloroethene	21	0.47	0.47	mg/kg	0.0032	U	0.0029	U	0.003	U	0.0028	U	0.0028	U	0.0029	U	0.0028	U	0.0015	J	0.0033	U	0.0032	U	0.003	U	0.003	U	0.0029	U
1,4-Dichlorobenzene	13	1.8	1.8	mg/kg	0.016	U	0.014	U	0.0019	J	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.016	U	0.016	U	0.015	U	0.015	U	0.014	U
p/m-Xylene	*100	*1.6	*0.26	mg/kg	0.0065	U	0.0057	U	0.0018	J	0.0057	U	0.0052	J	0.0057	U	0.0056	U	0.0016	J	0.0017	J	0.0017	J	0.0014	J	0.012		0.0057	U
o-Xylene	*100	*1.6	*0.26	mg/kg	0.0065	U	0.0057	U	0.006	U	0.0057	U	0.0051	J	0.0057	U	0.0056	U	0.0019	J	0.0066	U	0.0013	J	0.0061	U	0.0075		0.0057	U
Acetone	100	0.05	0.05	mg/kg	0.04		0.029	U	0.001		0.18		0.028	U	0.029	U	0.028	U	0.046		0.033	U	0.04		0.23		0.03	U	0.029	U
sec-Butylbenzene	100	11	11	mg/kg	0.0032	U	0.0029	U	0.012		0.0028	U	0.0028	U	0.0029	U	0.0028	U	0.0028	U	0.0033	U	0.0032	U	0.003	U	0.003	U	0.0029	U
n-Propylbenzene	100	3.9	3.9	mg/kg	0.0032	U	0.0029	U	0.0092		0.0028	U	0.0011	J	0.0029	U	0.0028	U	0.0028	U	0.0033	U	0.0032	U	0.003	U	0.003	U	0.0029	U
1,3,5-Trimethylbenzene	52	8.4	8.4	mg/kg	0.0024	J	0.014	U	0.0066	J	0.014	U	0.0078	J	0.014	U	0.014	U	0.0023	J	0.016	U	0.016	U	0.015	U	0.0068	J	0.014	U
1,2,4-Trimethylbenzene	52	3.6	3.6	mg/kg	0.0047	J	0.0016	J	0.005	J	0.014	U	0.014		0.014	U	0.014	U	0.0045	J	0.0024	J	0.002	J	0.015	U	0.013	J	0.014	U

Notes:
Bold - Compound detected above the Reporting Limit (RL)
 mg/kg - milligrams per kilogram
 NA - Not Analyzed
 Q - Qualifier
 U - Compound not detected above the reporting limit (RL) shown
 J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL)
 SCO - Soil Cleanup Objective
 NYSDEC - New York State Department of Environmental Conservation
 UNRES - NYSDEC Part 375 Soil Cleanup Objective for Unrestricted Use
 RESR - NYSDEC Part 375 Soil Cleanup Objective for Restricted Residential Use
 GW - NYSDEC Part 375 Soil Cleanup Objective for the Protection of GW
 Exceeds GW, UNRES & COMM
 Exceeds GW & UNRES
 Exceeds UNRES
 Exceeds RESR & UNRES
 * Soil Cleanup Objective applies to total Xylenes (p/m-Xylene and o-Xylene)
 ** The SCO for this specific compound is considered to be met if the analysis for the total species of this contaminant is below the specific SCO

Circled results exceed
RRSCOs

From Mar 19/12

Table 5
Summary of Ground Water Analytical Data
Karta - Lower South Street
Peckskill, NY

W&C SAMPLE ID			019		020		022		025		026	
LOCATION			TP-3 GW		TP-X		TP-8 GW		FB GW		TB	
SAMPLING DATE			5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012	
LAB SAMPLE ID			L1207957-01		L1207957-02		L1207957-03		L1207957-04		L1207957-05	
SAMPLE TYPE			Test Pit		Test Pit		Test Pit		Field Blank		Trip Blank	
	GA	Units		Q		Q		Q		Q		Q
Pesticides												
Heptachlor	0.04	ug/l	0.003	U	0.003	U	0.003	U	0.007	J	NA	
4,4'-DDD	0.3	ug/l	0.005	U	0.005	U	0.012	J	0.005	U	NA	
PCBs												
Semivolatile Organics												
Dibenzofuran	---	ug/l	0.47	U	0.47	U	8.3	J	0.47	U	NA	
Phenol	1	ug/l	0.26	U	0.26	U	11	J	0.26	U	NA	
Acenaphthene	20	ug/l	1.8		2		16		0.06	U	NA	
Fluoranthene	50	ug/l	1.9		2.1		31		0.04	U	NA	
Naphthalene	10	ug/l	3.2		3.7		11		0.06	U	NA	
Benzo(a)anthracene	---	ug/l	0.6		0.65		11		0.06	U	NA	
Benzo(a)pyrene	0	ug/l	0.61		0.05		11		0.07	U	NA	
Benzo(b)fluoranthene	0.002	ug/l	0.57		0.67		11		0.07	U	NA	
Benzo(k)fluoranthene	0.002	ug/l	0.53		0.55		11		0.07	U	NA	
Chrysene	0.002	ug/l	0.59		0.63		11		0.05	U	NA	
Acenaphthylene	---	ug/l	0.08	J	0.05	U	0.5	U	0.05	U	NA	
Anthracene	50	ug/l	0.76		0.79		7.5		0.06	U	NA	
Benzo(ghi)perylene	---	ug/l	0.51		0.54		9.3		0.07	U	NA	
Fluorene	50	ug/l	1.4		1.4		13		0.06	U	NA	
Phenanthrene	50	ug/l	2.6		2.5		27		0.06	U	NA	
Dibenzo(a,h)anthracene	---	ug/l	0.31		0.31		4		0.07	U	NA	
Indeno(1,2,3-cd)Pyrene	0.002	ug/l	0.55		0.56		5.3		0.08	U	NA	
Pyrene	50	ug/l	1.4		1.6		14		0.06	U	NA	
Metals, Total												
Arsenic, Total	25	ug/l	10		13		31		3	U	NA	
Barium, Total	1,000	ug/l	226		261		1030		1	U	NA	
Beryllium, Total	3	ug/l	0.1	J	0.2	J	1.8		0.1	U	NA	
Cadmium, Total	5	ug/l	1	U	1	U	5		1	U	NA	
Chromium, Total	50	ug/l	7	J	10		50		2	U	NA	
Copper, Total	200	ug/l	24		33		126		5	U	NA	
Lead, Total	25	ug/l	93		122		140		3	U	NA	
Manganese, Total	300	ug/l	208		242		1,740		1	U	NA	
Mercury, Total	0.7	ug/l	0.3		0.2		34.1		0.1	U	NA	
Nickel, Total	100	ug/l	12	J	14	J	64		3	U	NA	
Zinc, Total	2000	ug/l	150		210		1540		5	U	NA	
Metals, Dissolved												
Arsenic, Dissolved	25	ug/l	6		6		10		NA		NA	
Barium, Dissolved	1000	ug/l	136		132		291		NA		NA	
Copper, Dissolved	200	ug/l	5	J	5	J	7	J	NA		NA	
Lead, Dissolved	25	ug/l	14		7	J	30		NA		NA	
Manganese, Dissolved	300	ug/l	120		114		246		NA		NA	
Mercury, Dissolved	0.7	ug/l	0.1	U	0.1	U	0.2		NA		NA	
Nickel, Dissolved	100	ug/l	8		7	J	11	J	NA		NA	
Zinc, Dissolved	2000	ug/l	34	J	19	J	23	J	NA		NA	
Volatile Organic Compounds												
Tetrachloroethene	5	ug/l	0.26	J	0.27	J	0.18	U	0.18	U	0.18	U
Methyl tert butyl ether	10	ug/l	0.7	U	0.7	U	11		0.7	U	0.7	U
Acetone	50	ug/l	2.4	J	3.9	J	65		1.1	J	1	U
2-Butanone	50	ug/l	1	U	1	U	12		1.8	J	1	U

Notes:

Bold - Compound detected above the Method Detection Limit (MDL)

ug/l - micrograms per liter

NA - Not Analyzed

Q - Qualifier

U - Compound not detected above the method detection limit (MDL) shown

J - Estimated Value

NYSDEC - New York State Department of Environmental Conservation

GA - NYSDEC Class GA Ground Water Quality Standards

* Standards obtained from New York State Technical and Operational Guidance Series (TOGS) - Ambient Water Quality Standards and Guidance Values

Exceeds GA

Shaded results exceed GWQS

Illegible lab results have been typed over using concentrations on provided lab reports

Table 6
Summary of Background Soil Analytical Data
Karta - Lower South Street
Peekskill, NY

W&C SAMPLE ID					027		028		029		030		031		032		033	
LOCATION					BS-4		BS-1		BS-2		BS-5		BS-6		BS-3		BS-X	
SAMPLING DATE					5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012	
LAB SAMPLE ID					L1208047-01		L1208047-02		L1208047-03		L1208047-04		L1208047-05		L1208047-06		L1208047-07	
SAMPLE DEPTH					1'-2'		1'-2'		6"- 10"		6"- 12"		8"- 12"		1'-2'		1'-2'	
	RESR	GW	UNRES	Units		Q		Q		Q		Q		Q		Q		Q
General Chemistry																		
Solids, Total	—	—	—	%	81		88		86		89		82		83		84	
Semivolatile Organic Compounds																		
Fluoranthene	100	1000	100	mg/kg	0.049	J	12		0.08	J	1.8		1.6	J	0.12	U	0.12	U
Benzo(a)anthracene	1	1	1	mg/kg	0.12	U	4.4		0.039	J	1	J	0.88	J	0.12	U	0.12	U
Benzo(a)pyrene	1	22	1	mg/kg	0.16	U	4	J	0.15	U	0.93	J	3.2	U	0.16	U	0.16	U
Benzo(b)fluoranthene	1	1.7	1	mg/kg	0.12	U	5.6		0.053	J	1.4		1.3	J	0.12	U	0.12	U
Benzo(k)fluoranthene	3.9	1.7	0.8	mg/kg	0.12	U	1.9	J	0.12	U	0.48	J	2.4	U	0.12	U	0.12	U
Chrysene	3.9	1	1	mg/kg	0.12	U	4.9		0.045	J	1.3		0.99	J	0.12	U	0.12	U
Anthracene	100	1000	100	mg/kg	0.12	U	2	J	0.12	U	1.1	U	2.4	U	0.12	U	0.12	U
Benzo(ghi)perylene	100	1000	100	mg/kg	0.16	U	2.7	J	0.15	U	0.59	J	3.2	U	0.16	U	0.16	U
Fluorene	100	386	30	mg/kg	0.2	U	5.5	U	0.19	U	1.8	U	4	U	0.2	U	0.2	U
Phenanthrene	100	1000	100	mg/kg	0.12	U	9		0.12	U	1.1	U	2.4	U	0.12	U	0.12	U
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	mg/kg	0.16	U	2.8	J	0.15	U	0.5	J	3.2	U	0.16	U	0.16	U
Pyrene	100	1000	100	mg/kg	0.045	J	9		0.078	J	1.6		1.5	J	0.12	U	0.12	U

Circled results exceed
RRSCOs

Table 6
Summary of Background Soil Analytical Data
Karta - Lower South Street
Peekskill, NY

Results meet RRSCOs

W&C SAMPLE ID					027		028		029		030		031		032		033	
LOCATION					BS-4		BS-1		BS-2		BS-5		BS-6		BS-3		BS-X	
SAMPLING DATE					5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012		5/3/2012	
LAB SAMPLE ID					L1208047-01		L1208047-02		L1208047-03		L1208047-04		L1208047-05		L1208047-06		L1208047-07	
SAMPLE DEPTH					1'-2'		1'-2'		6"- 10"		6"- 12"		8"- 12"		1'-2'		1'-2'	
	RESR	GW	UNRES	Units		Q		Q		Q		Q		Q		Q		Q
Metals, Total																		
Arsenic, Total	16	16	13	mg/kg	2.9		3.5		2.9		3.8		11		3.8		4.1	
Barium, Total	400	820	350	mg/kg	130		64		36		71		120		100		82	
Beryllium, Total	72	47	7.2	mg/kg	0.62		0.17	J	0.32		0.46		0.43		0.55		0.48	
Cadmium, Total	4.3	7.5	2.5	mg/kg	0.46	U	0.26	J	0.44	U	0.43	U	0.21	J	0.46	U	0.45	U
Chromium, Total	*180	—	*30	mg/kg	21		23		14		16		27		18		18	
Copper, Total	270	1720	50	mg/kg	20		65		18		22		91		19		22	
Lead, Total	400	450	63	mg/kg	15		76		12		35		110		9.5		19	
Manganese, Total	2000	2000	1600	mg/kg	490		240		160		350		340		190		210	
Mercury, Total	0.81	0.73	0.18	mg/kg	0.04	J	0.14		0.05	J	0.05	J	0.15		0.02	J	0.03	J
Nickel, Total	310	130	30	mg/kg	28		14		13		17		20		21		19	
Selenium, Total	180	4	3.9	mg/kg	1.5		0.84	J	0.71	J	0.96		1		0.99		1.2	
Silver, Total	180	8.3	2	mg/kg	0.46	U	0.21	J	0.44	U	0.43	U	0.11	J	0.46	U	0.45	U
Zinc, Total	10000	2480	109	mg/kg	59		300		35		56		170		58		70	

Notes:

Bold - Compound detected above the Reporting Limit (RL)

mg/kg - milligrams per kilogram

Q - Qualifier

U - Compound not detected above the RL shown

J - Estimated Value

SCO - Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation

COMM - NYSDEC Part 375 Soil Cleanup Objective for Commercial Use

UNRES - NYSDEC Part 375 Soil Cleanup Objective for Unrestricted Use

GW - NYSDEC Part 375 Soil Cleanup Objective for Protection of Ground Water

Exceeds UNRES

Exceeds COMM & UNRES

Exceeds COMM, UNRES & GW

Exceeds UNRES & GW

* The SCO for this specific compound is considered to be met if the analysis for the total species of this contaminant is below the specific SCO

Table 7
Summary of Bar Hole and Soil Gas Data
Karta Corporation
1013-1017 Lowe South Street, Peekskill NY

Bar Hole Location	PID	CH ₄	CO ₂	O ₂	Balance	Bar	H ₂	CO	H ₂ S
Units	ppm	%	%	%	%	"Hg	ppm	ppm	ppm
Equipment	MR-2000	GEM-2000							
BH-1	0.0	0	2.6	14.3	83.1	29.43	0	0	1
BH-2	0.0	0	1.8	16	81.3	29.43	0	0	0
BH-3	0.0	0	4.9	11.8	86.3	29.43	0	0	1
BH-4	4.7	1.2	0	4.3	90.8	29.43	0	0	1
BH-5	7.3*	0	0	13.1	85.9	29.43	0	0	1
BH-6	0.0	0	0	20.7	79.3	29.43	0	6	1
BH-7	0.9	8.9	1.3	20.6	78.4	29.43	0	0	0
BH-8	1.8	1.5	0	11.4	78.5	29.43	0	0	2
BH-9	15.9	0.9	0	14.6	83.9	29.43	0	42	2
BH-10	2.0	0	0	14.9	83.4	29.43	0	25	1
BH-11	0.6	0	1.1	21.2	78.8	29.43	0	22	0
BH-12	0.0	0	5.5	18.6	80.4	29.43	0	0	0
BH-13	0.0	0	0.2	5.2	89.3	29.43	0	9	0
BH-14	1.4	0	0	18.8	81	29.44	0	0	1
BH-15	0.0	0	0	18.9	81.1	29.44	0	0	1
BH-16	0.5	0	0	21.3	78.7	29.44	0	2	0
BH-17	0.0	0	5.8	19.1	80.9	29.44	0	0	0
BH-18	0.0	0	2.4	4.8	89.6	29.44	0	0	0
BH-19	0.0	0	0	14.3	83.4	29.45	0	0	1
SG-1	1.0	0	0	16.4	---	---	---	17	1
SG-2	6.1	0.3	0	19.3	---	---	---	15	1
SG-3	0.8	0	0	17.8	---	---	---	0	0
SG-4	0.6	0	0.1	16.3	---	---	---	0	1
SG-5	1.3	0	0	19.4	---	---	---	0	1
SG-6	1.6	0	0.3	17.9	---	---	---	7	1
SG-7	0.6	0	0	19.3	---	---	---	0	1
BH-19	0.0	0	0	14.3	83.4	29.45	0	0	1

Notes:

Bold - Parameter Detected (Includes PID, CH₄, H₂S)

ppm - part per million

"Hg -Inches of Mercury

MR-2000 - MiniRAE 2000 Photo Ionization Detector w/ 11.7 EV lamp

GEM-2000 - GEM 2000 Plus landfill gas analyzer

** All Barhole gas samples were collected at 5' below ground surface

* Decreased to 0.0 during sample collection

Table 9A - In-Situ Characterization
Area 9 - Southwestern 1013 LSS
Karta
Peekskill, NY

SAMPLE ID					TP6	SS1	SS2	SS2A	SS3	SS4	SS5	SS5	SS6	GB-37 (6-7 FTBG) AN16040
CONSULTANT					SITES	SITES	SITES	SITES	SITES	SITES	SITES	SITES	SITES	HES
SAMPLE DATE					10/9/2003	2/5/2002	2/5/2002	2/5/2002	2/5/2002	2/5/2002	2/5/2002	3/27/2002	3/27/2002	10/4/2010
SAMPLE DEPTH					2'-2.5'	24 "	18 "	36"	18"	18"	30"	0 + 10' at 12 inch	0 + 20' at 12 inch	6' -7'
	DER-10 UNRES	DER-10 RESR	DER-10 COMM	Units										
Metals (mg/kg)														
Barium	350	400	400	mg/kg	251	60	42	40	31	40	213	195	33	41

Mean Barium Concentration (mg/kg): 439.70

Notes:

mg/kg - milligrams per kilogram

DER-10 - NYSDEC DER-10 Allowable Constituent Levels (ACL) for Imported Fill or Soil

Exceeds DER-10 Commercial, Restricted Residential, and Unrestricted ACL

Exceeds DER-10 Restricted Residential and Unrestricted ACL

Exceeds DER-10 Unrestricted ACL

Circled results exceed
RRSCOs

Table 9B - Compliance Averaging
Area 11 - Building 4 - 1011 LSS
Karta
Peekskill, NY

SAMPLE ID					TP-2	B-1-1-3	B-2-4-6	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-11-0.5-2
CONSULTANT					Tectonic	Tectonic	Tectonic	Tectonic	Tectonic Table 2	Tectonic	Tectonic	Tectonic
SAMPLE DATE					8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011
SAMPLE DEPTH					4' - 6'	1'-3'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	0.5'-2'
	DER-10 UNRES	DER-10 RESR	DER-10 COMM	Units								
Metals (mg/kg)												
Barium	350	400	400	mg/kg	137	567	625	362	355	318	313	185

Mean Barium Concentration (mg/kg): 366.625

Notes:

mg/kg - milligrams per kilogram

DER-10 - NYSDEC DER-10 Allowable Constituent Levels (ACL) for Imported Fill or Soil

Exceeds DER-10 Commercial, Restricted Residential, and Unrestricted ACL

Exceeds DER-10 Restricted Residential and Unrestricted ACL

Exceeds DER-10 Unrestricted ACL

Circled results exceed
RRSCOs

Table 9C - In-Situ Characterization
Area 10 - 1017 LSS - Building 6
Karta
Peekskill, NY

SAMPLE ID					002 W&C-1	Area 3 Comp	GB-16 AN16029	GB-34	TP1	TP2	TP3	TP4
CONSULTANT					W&C	SITES	HES	HES	SITES	SITES	SITES	SITES
SAMPLE DATE					4/25/2012	3/4/2009	9/28/2010	10/4/2010	10/9/2003	10/9/2003	10/9/2003	10/9/2003
SAMPLE DEPTH					6' - 7'	0' - 2'	2' - 6'	3' - 4'	2'-2.5'	2'-2.5'	2'-2.5'	2'-2.5'
	DER-10 UNRES	DER-10 RESR	DER-10 COMM	Units								
Metals												
Barium	350	400	400	mg/kg	316.8375	38.8	293	62.9	343	274	274	331

Mean Barium Concentration (mg/kg): 316.8375

Notes:
mg/kg - milligrams per kilogram
DER-10 - NYSDEC DER-10 Allowable Constituent Levels (ACL) for Imported Fill or Soil
Exceeds DER-10 Commercial, Restricted Residential, and Unrestricted ACL
Exceeds DER-10 Restricted Residential and Unrestricted ACL
Exceeds DER-10 Unrestricted ACL

Circled results exceed
RRSCOs



LEGEND

- FEBRUARY 5, 2002 – SPILL CLOSURE REPORT TEST PIT LOCATION BY S.I.T.E.S. INC.
- MARCH 22, 2002 – SPILL CLOSURE REPORT SOIL SAMPLE LOCATION BY S.I.T.E.S. INC.
- MARCH 22, 2002 – ENVIRONMENTAL SITE ASSESSMENT SOIL BORING LOCATION BY S.I.T.E.S. INC.
- MARCH 27, 2002 – ENVIRONMENTAL SITE ASSESSMENT SOIL SAMPLE LOCATION BY S.I.T.E.S. INC.
- OCTOBER 9, 2003 – SAMPLING AND ANALYSIS OF UNDERLYING SOILS TEST PIT LOCATION BY S.I.T.E.S. INC.
- MARCH 3, 2009 – SAMPLING OF SLAB AND UNDERLYING MATERIAL SOIL SAMPLE LOCATION BY S.I.T.E.S. INC.
- OCTOBER 2010 – SUBSURFACE INVESTIGATION REPORT GEBORING LOCATION BY HYDRO ENVIRONMENTAL SOLUTIONS INC.
- OCTOBER 2010 – SUBSURFACE INVESTIGATION REPORT SURFACE WATER SAMPLE LOCATION BY HYDRO ENVIRONMENTAL SOLUTIONS INC.
- OCTOBER 2010 – SUBSURFACE INVESTIGATION REPORT TEST PIT LOCATION BY HYDRO ENVIRONMENTAL SOLUTIONS INC.
- MARCH 11, 2011 – SPILL REMEDIATION AREA OF CONCERN #1 SOIL SAMPLE LOCATION BY S.I.T.E.S. INC.
- SUB-SLAB INVESTIGATION AREAS:**
- AREA 1: S.I.T.E.S. INC. CONCRETE SLAB INVESTIGATION AREA OF MARCH 2008
- AREAS 2: S.I.T.E.S. INC. CONCRETE THRU SLAB INVESTIGATION AREAS AREA 7 OF MARCH 2009
- AREA OF CONCERN
- BENZO(A)PYRENE EXCEEDS NYSDEC SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE
- PAH'S EXCEEDS NYSDEC SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE
- ARSENIC EXCEEDS NYSDEC SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE
- BARIUM EXCEEDS NYSDEC SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE
- LEAD EXCEEDS NYSDEC SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE

80' 0 80' 160'

BAR SCALE
1" = 80'

CHECK GRAPHIC SCALE BEFORE USING

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COMMITMENT & INTEGRITY DRIVE RESULTS



HISTORICAL SAMPLE LOCATIONS

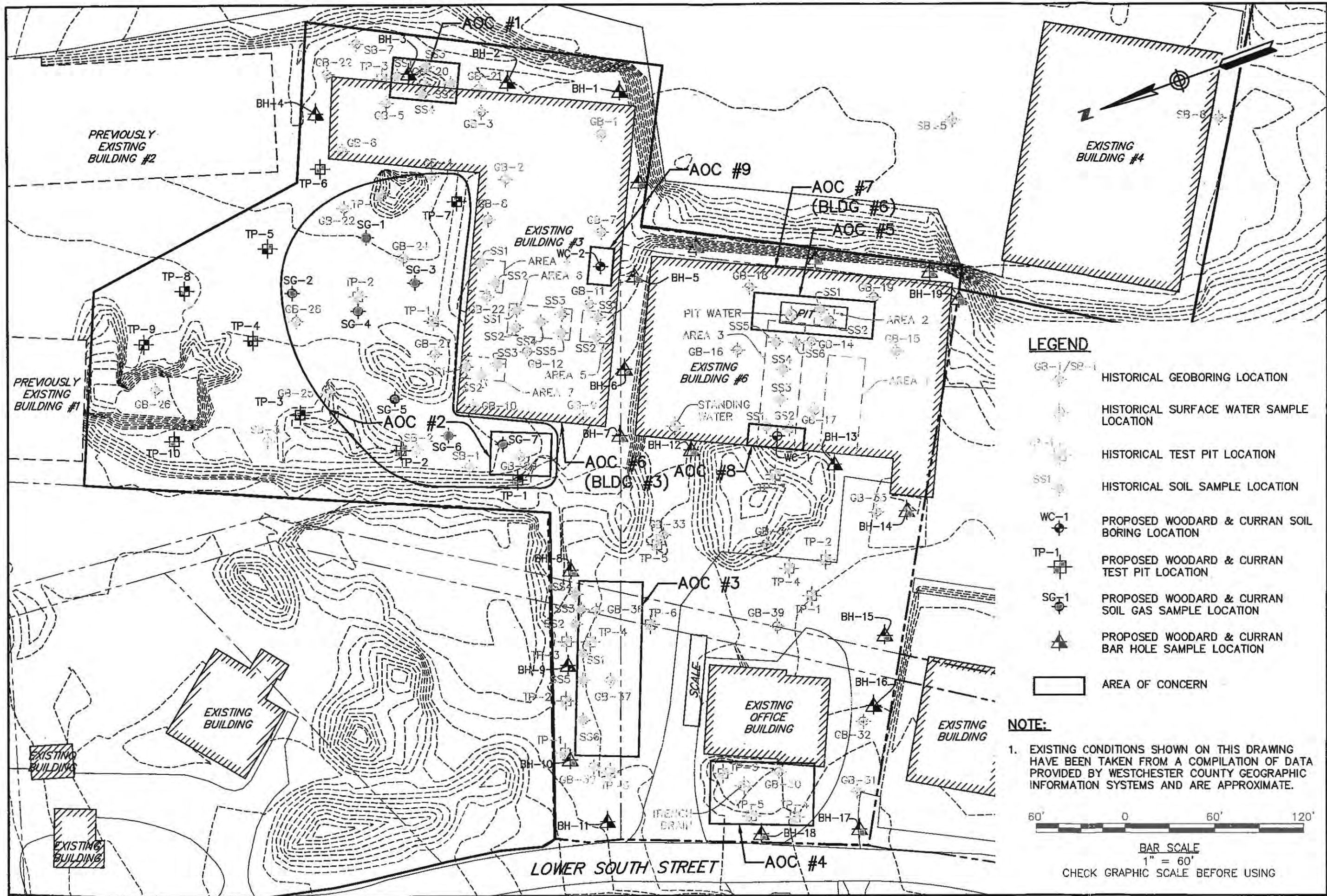
KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566
SITE CLOSURE INVESTIGATION REPORT/
FACILITY CLOSURE PLAN

JOB NO: 213949
DATE: MARCH 2013
SCALE: 1"=80'

FIGURE 2

NOTE:

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.



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**SITE CLOSURE INVESTIGATION
SAMPLE LOCATIONS**

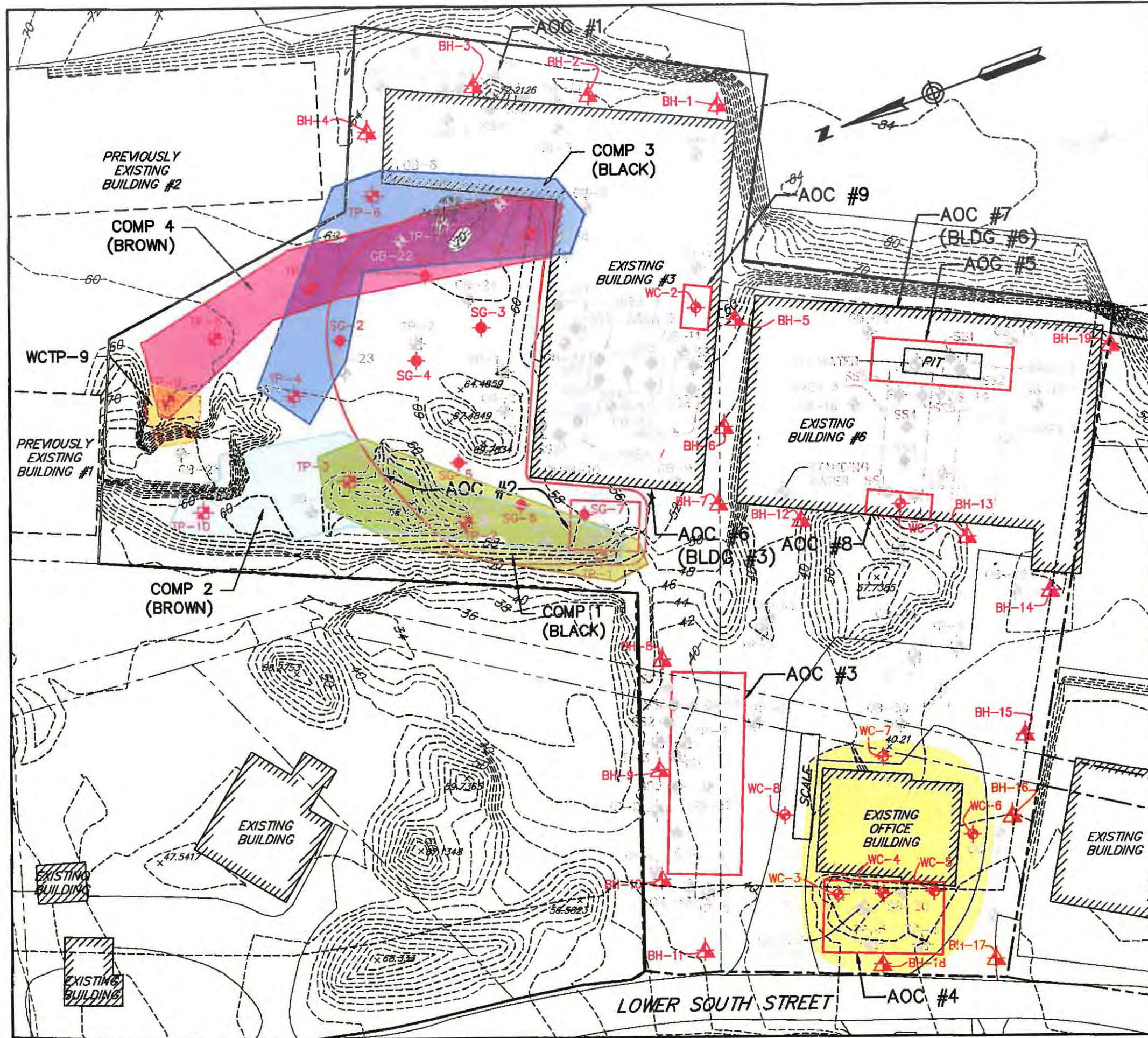
CHECKED BY: 213949_Figure 2_3.dwg
DESIGNED BY:
DRAWN BY:

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566

SITE CLOSURE INVESTIGATION REPORT/
FACILITY CLOSURE PLAN

JOB NO: 213949
DATE: MARCH 2013
SCALE: 1"=60'

FIGURE 3



LEGEND

- HISTORICAL GEOBORING LOCATION
- HISTORICAL SURFACE WATER SAMPLE LOCATION
- HISTORICAL TEST PIT LOCATION
- HISTORICAL SOIL SAMPLE LOCATION
- WOODARD & CURRAN SOIL BORING LOCATION
- WOODARD & CURRAN TEST PIT LOCATION
- WOODARD & CURRAN SOIL GAS SAMPLE LOCATION
- WOODARD & CURRAN BAR HOLE SAMPLE LOCATION
- AREA OF CONCERN
- WASTE COMPOSITION 1 (BLACK)
- WASTE COMPOSITION 2 (BROWN)
- WASTE COMPOSITION 3 (BLACK)
- WASTE COMPOSITION 4 (BROWN)
- WCTP-9 WASTE COMPOSITION
- AOC-4 (SEE NOTE 2)

NOTE:

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.
2. AREA OF HISTORIC FILL AND ASH IDENTIFIED BY W&C AND HES.



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WASTE COMPOSITION SAMPLE LOCATIONS AND AOC-4 HISTORIC FILL AND ASH DELINEATION

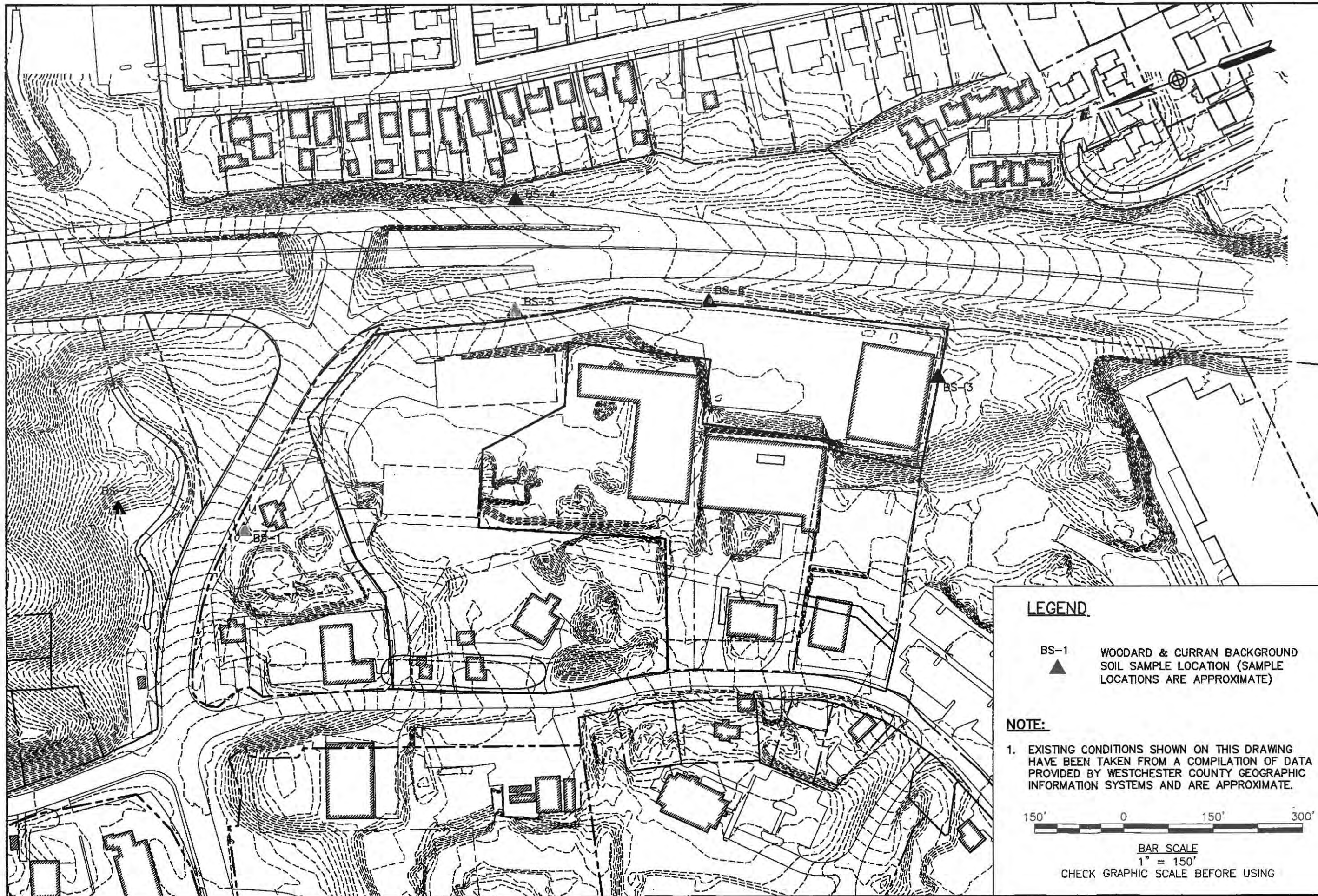
DESIGNED BY: 213949_Figures.dwg
CHECKED BY:

KARTA CORPORATION
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SITE CLOSURE INVESTIGATION REPORT/
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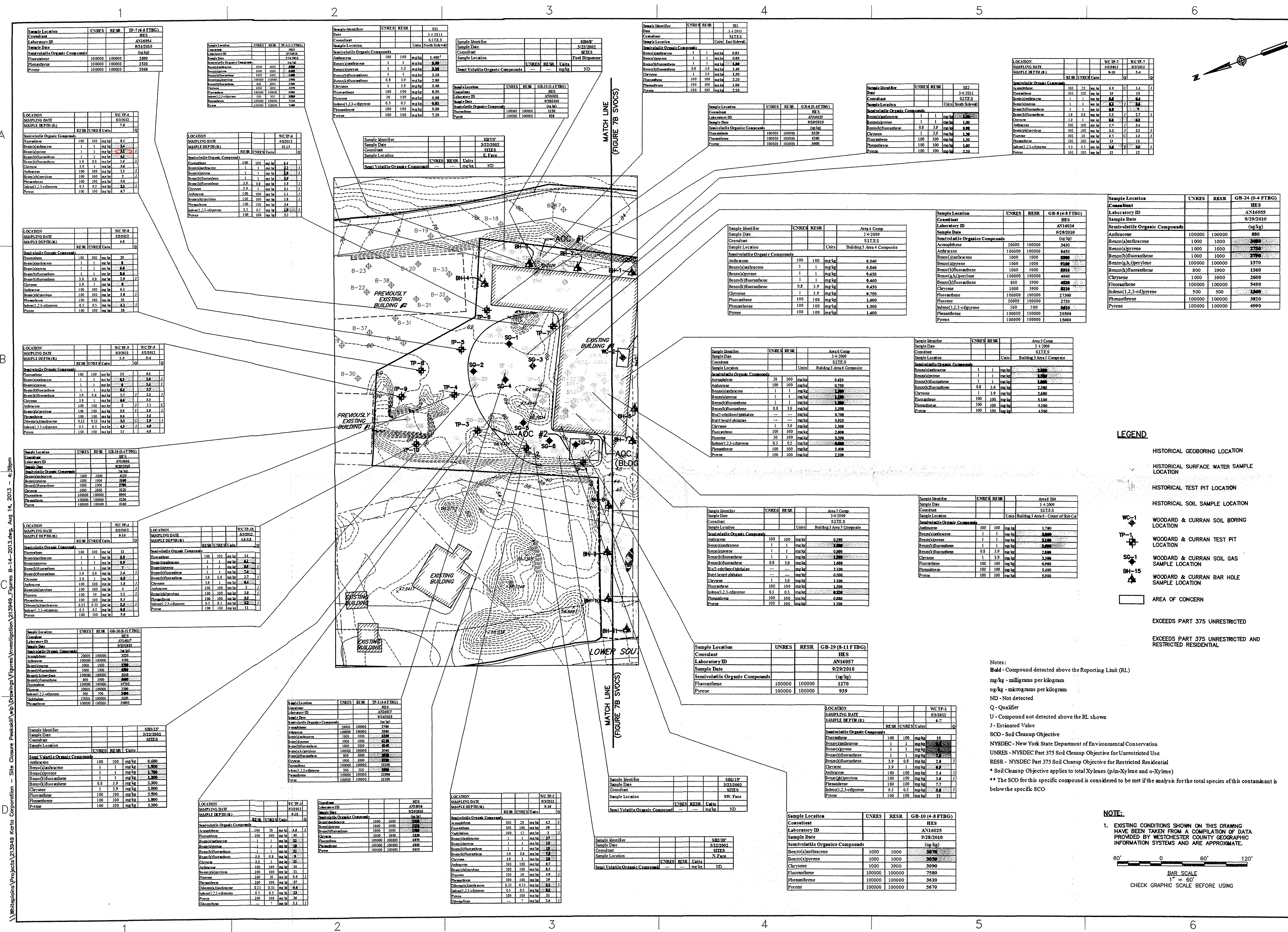
JOB NO: 213949
DATE: MARCH 2013
SCALE: 1"=60'

FIGURE 4









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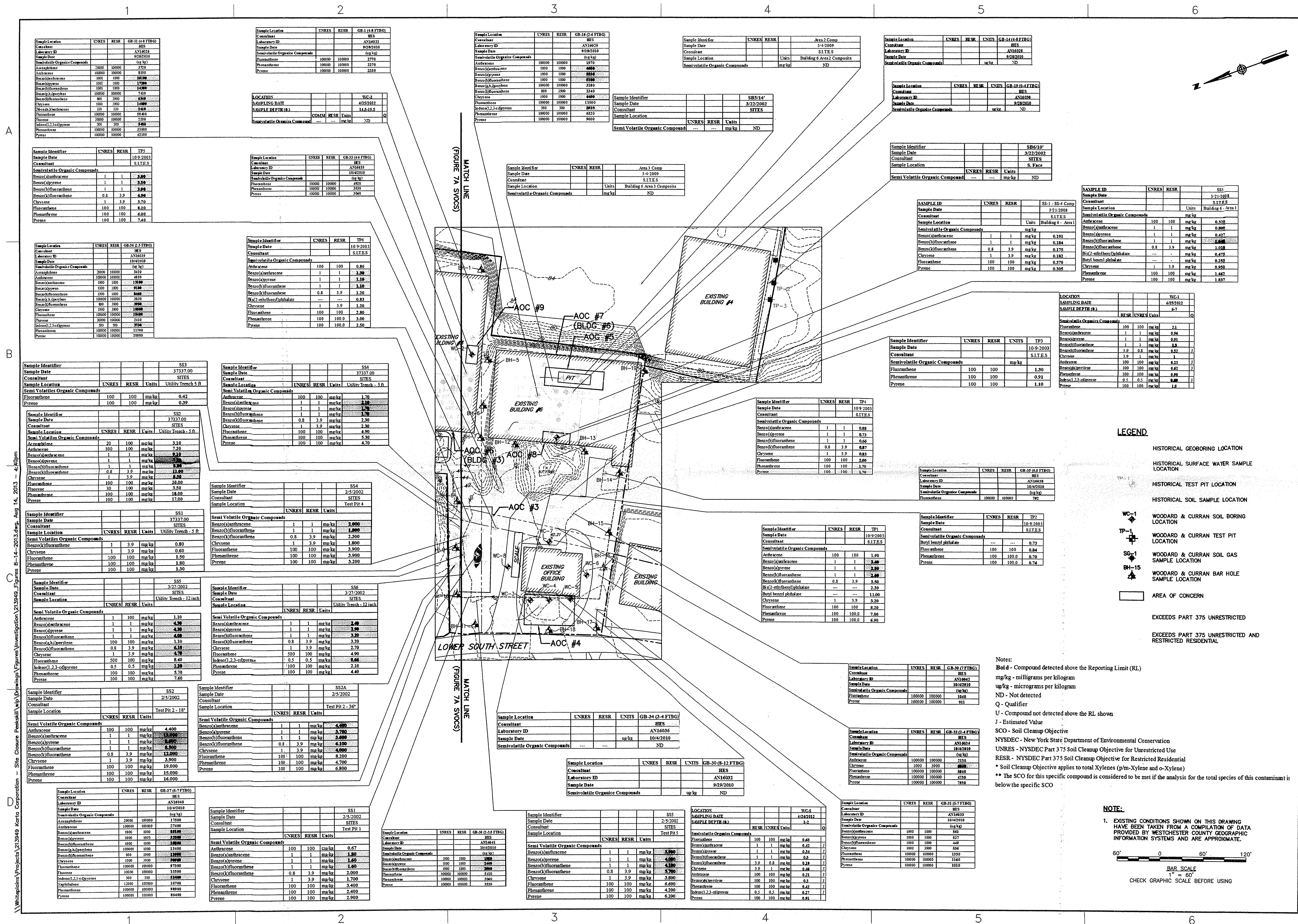
REVISION	DESCRIPTION	DATE
1	DESIGNED BY: 2344 JAMES E-H-2013	
2	CHECKED BY: 2344 JAMES E-H-2013	
3	DRAWN BY: 2344 JAMES E-H-2013	

SEMI-VOLATILE ORGANIC COMPOUND ANALYTICAL DATA

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566

JOB NO.: 213949
DATE: AUGUST 2013
SCALE: 1"=60'
SHEET: 0F

FIGURE 7A



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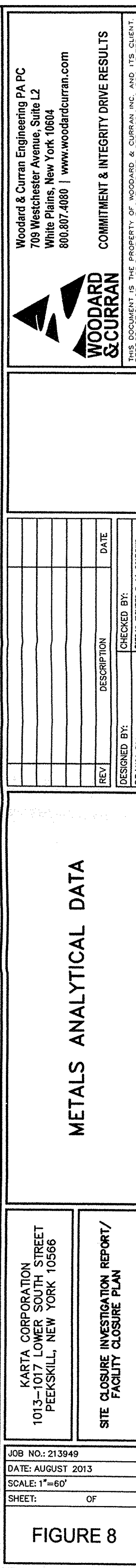
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SEMI-VOLATILE ORGANIC COMPOUND ANALYTICAL DATA

SITE CLOSURE INVESTIGATION REPORT/ FACILITY CLOSURE PLAN

FIGURE 7B

DATE: AUGUST 2013
SCALE: 1"=60'
SHEET: 1 OF 1





A

B

C

D

A

B

C

D

LOCATION					TP-5
SAMPLING DATE					5/2/2012
SAMPLE DEPTH (ft.)					7-8
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1254	1	0.1	3.2	mg/kg	1.14
Aroclor 1260	1	0.1	3.2	mg/kg	1.04
TOTAL=2.18 mg/kg					

LOCATION					TP-8
SAMPLING DATE					5/2/2012
SAMPLE DEPTH (ft.)					4-5
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.0391
Aroclor 1254	1	0.1	3.2	mg/kg	0.0333
Aroclor 1260	1	0.1	3.2	mg/kg	0.0203
TOTAL=0.0927 mg/kg					

LOCATION					TP-9	TP-9
SAMPLING DATE					5/2/2012	5/2/2012
SAMPLE DEPTH (ft.)					2-3	3-4
	RESR	UNRES	GW	Units	Q	Q
PCBs						
Aroclor 1242	1	0.1	3.2	mg/kg	0.0372	0.0273
Aroclor 1254	1	0.1	3.2	mg/kg	0.0431	0.0209
Aroclor 1260	1	0.1	3.2	mg/kg	0.0133	0.0364
TOTAL=0.0615 mg/kg						

LOCATION					TP-10
SAMPLING DATE					5/3/2012
SAMPLE DEPTH (ft.)					4.5-5.5
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1254	1	0.1	3.2	mg/kg	0.0586
Aroclor 1260	1	0.1	3.2	mg/kg	0.0163
TOTAL=0.0749 mg/kg					

LOCATION					TP-4
SAMPLING DATE					5/2/2012
SAMPLE DEPTH (ft.)					9-10
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.0615
Aroclor 1254	1	0.1	3.2	mg/kg	0.051
Aroclor 1260	1	0.1	3.2	mg/kg	0.0147
TOTAL=0.1272 mg/kg					

LOCATION					TP-3
SAMPLING DATE					5/3/2012
SAMPLE DEPTH (ft.)					9-10
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.342
Aroclor 1254	1	0.1	3.2	mg/kg	0.183
Aroclor 1260	1	0.1	3.2	mg/kg	0.0867
TOTAL=0.6117 mg/kg					

LOCATION					TP-6
SAMPLING DATE					5/2/2012
SAMPLE DEPTH (ft.)					11-12
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.0769
Aroclor 1254	1	0.1	3.2	mg/kg	0.207
Aroclor 1260	1	0.1	3.2	mg/kg	0.0618
TOTAL=0.346 mg/kg					

LOCATION					TP-7	TP-7
SAMPLING DATE					5/2/2012	5/2/2012
SAMPLE DEPTH (ft.)					9-10	3-4
	RESR	UNRES	GW	Units	Q	Q
PCBs						
Aroclor 1242	1	0.1	3.2	mg/kg	0.0597	0.0889
Aroclor 1254	1	0.1	3.2	mg/kg	0.0493	0.0754
Aroclor 1260	1	0.1	3.2	mg/kg	0.0157	0.0227
TOTAL=0.187 mg/kg						

LOCATION					WC-2
SAMPLING DATE					4/25/2012
SAMPLE DEPTH (ft.)					14.5-15.5
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.115
Aroclor 1254	1	0.1	3.2	mg/kg	0.117
TOTAL=0.232 mg/kg					

LOCATION					GB-16
SAMPLING DATE					October-10
SAMPLE DEPTH (ft.)					HES
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.115
Aroclor 1254	1	0.1	3.2	mg/kg	0.117
TOTAL=0.232 mg/kg					

LOCATION					WC-1
SAMPLING DATE					4/25/2012
SAMPLE DEPTH (ft.)					6-"
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.0633
Aroclor 1254	1	0.1	3.2	mg/kg	0.0264
Aroclor 1260	1	0.1	3.2	mg/kg	0.0141
TOTAL=0.1037 mg/kg					

Sample Identifier	UNRES	RES R	GW		SS-1 - SS-4 Comp
Sample Date					3/21/2008
Consultant					S.I.T.E.S
Sample Location				Units	Building 6 - Area
PCB 1242	0.1	1	3.2	mg/kg	0.02
PCB 1254	0.1	1	3.2	mg/kg	0.04

Sample Identifier	UNRES	RESR	GW		SS5
Sample Date					3/21/2008
Consultant					SITES
Sample Location				Units	Building 6 - Area 1
PCB 1242	0.1	1	3.2	mg/kg	0.12
PCB 1254	0.1	1	3.2	mg/kg	0.05
TOTAL=0.17 mg/kg					

LOCATION					TP-2
SAMPLING DATE					10/01/03
SAMPLE DEPTH (ft.)					SITES
	RESR	UNRES	GW	Units	Q
Aroclor 1242	1	0.1	3.2	mg/kg	4.62
TOTAL=4.62 mg/kg					

LOCATION					TP-1
SAMPLING DATE					10/01/03
SAMPLE DEPTH (ft.)					SITES
	RESR	UNRES	GW	Units	Q
Aroclor 1242	1	0.1	3.2	mg/kg	1.25
Aroclor 1254	1	0.1	3.2	mg/kg	0.21
Aroclor 1260	1	0.1	3.2	mg/kg	0.27
TOTAL=1.73 mg/kg					

LOCATION					WC-5
SAMPLING DATE					4/24/2012
SAMPLE DEPTH (ft.)					1-2
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1242	1	0.1	3.2	mg/kg	0.149
Aroclor 1254	1	0.1	3.2	mg/kg	0.0814
TOTAL=0.2304 mg/kg					

LOCATION					TP-5
SAMPLING DATE					October-03
SAMPLE DEPTH (ft.)					SITES
	RESR	UNRES	GW	Units	Q
Aroclor 1254	1	0.1	3.2	mg/kg	0.74
TOTAL=0.74 mg/kg					

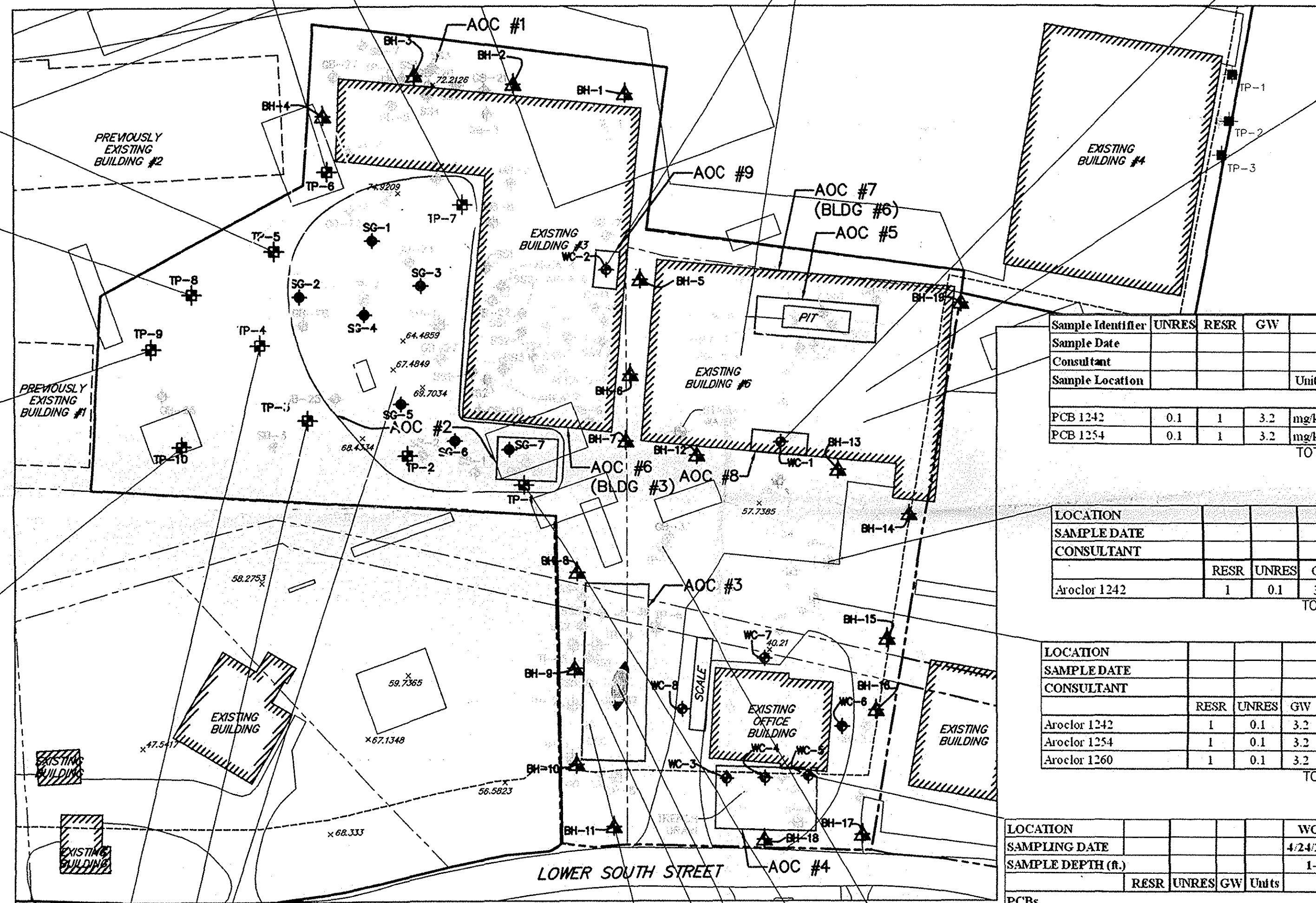
LOCATION					TP-1
SAMPLING DATE					5/3/2012
SAMPLE DEPTH (ft.)					6-7
	RESR	UNRES	GW	Units	Q
PCBs					
Aroclor 1254	1	0.1	3.2	mg/kg	0.0421
Aroclor 1260	1	0.1	3.2	mg/kg	0.0143
TOTAL=0.0564 mg/kg					

LOCATION					GB-37
SAMPLING DATE					October-10
SAMPLE DEPTH (ft.)					HES
	RESR	UNRES	GW	Units	Q
Aroclor 1242	1	0.1	3.2	mg/kg	0.264
Aroclor 1254	1	0.1	3.2	mg/kg	0.333
TOTAL=0.597 mg/kg					

LOCATION					SS-5
SAMPLING DATE					March-02
SAMPLE DEPTH (ft.)					SITES
	RESR	UNRES	GW	Units	Q
Aroclor 1260	1	0.1	3.2	mg/kg	0.05
TOTAL=0.05 mg/kg					

LOCATION					SS-6
SAMPLING DATE					March-02
SAMPLE DEPTH (ft.)					SITES
	RESR	UNRES	GW	Units	Q
Aroclor 1260	1	0.1	3.2	mg/kg	0.08
TOTAL=0.08 mg/kg					

LOCATION					TP-2	TP-X
SAMPLING DATE					5/3/2012	5/3/2013
SAMPLE DEPTH (ft.)					9-10	9-10
	RESR	UNRES	Units	Q	Q	Q
PCBs						
Aroclor 1242	1	0.1	mg/kg	0.313	0.332	
Aroclor 1254	1	0.1	mg/kg	0.127	0.197	
Aroclor 1260	1	0.1	mg/kg	0.0543	0.0609	
TOTAL=0.4943/0.5899 mg/kg						



LEGEND

- HISTORICAL GEOBORING LOCATION
- HISTORICAL SURFACE WATER SAMPLE LOCATION
- HISTORICAL TEST PIT LOCATION
- HISTORICAL SOIL SAMPLE LOCATION
- WOODARD & CURRAN SOIL BORING LOCATION
- WOODARD & CURRAN TEST PIT LOCATION
- WOODARD & CURRAN SOIL GAS SAMPLE LOCATION
- WOODARD & CURRAN BAR HOLE SAMPLE LOCATION
- AREA OF CONCERN
- EXCEEDS PART 375 UNRESTRICTED
- EXCEEDS PART 375 UNRESTRICTED AND RESTRICTED RESIDENTIAL
- EXCEEDS PART 375 PROTECTION OF GROUNDWATER

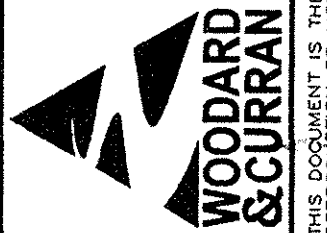
Notes:
Bold - Compound detected above the Reporting Limit (RL)
mg/kg - milligrams per kilogram
mg/kg - micrograms per kilogram
ND - Not detected
Q - Qualifier
U - Compound not detected above the RL shown
J - Estimated Value
SCO - Soil Cleanup Objective
NYSDEC - New York State Department of Environmental Conservation
UNRES - NYSDEC Part 375 Soil Cleanup Objective for Unrestricted Use
RESR - NYSDEC Part 375 Soil Cleanup Objective for Restricted Residential
* Soil Cleanup Objective applies to total Xylenes (p-m-Xylene and o-Xylene)
** The SCO for this specific compound is considered to be met if the analysis for the total species of this contaminant is below the specific SCO

NOTE:

- EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.

60' 0 60' 120'
BAR SCALE
1" = 60'
CHECK GRAPHIC SCALE BEFORE USING

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709 Westchester Avenue, Suite L2
White Plains, New York 10604
800.807.4080 | www.woodardcurran.com



COMMITMENT & INTEGRITY DRIVE RESULTS

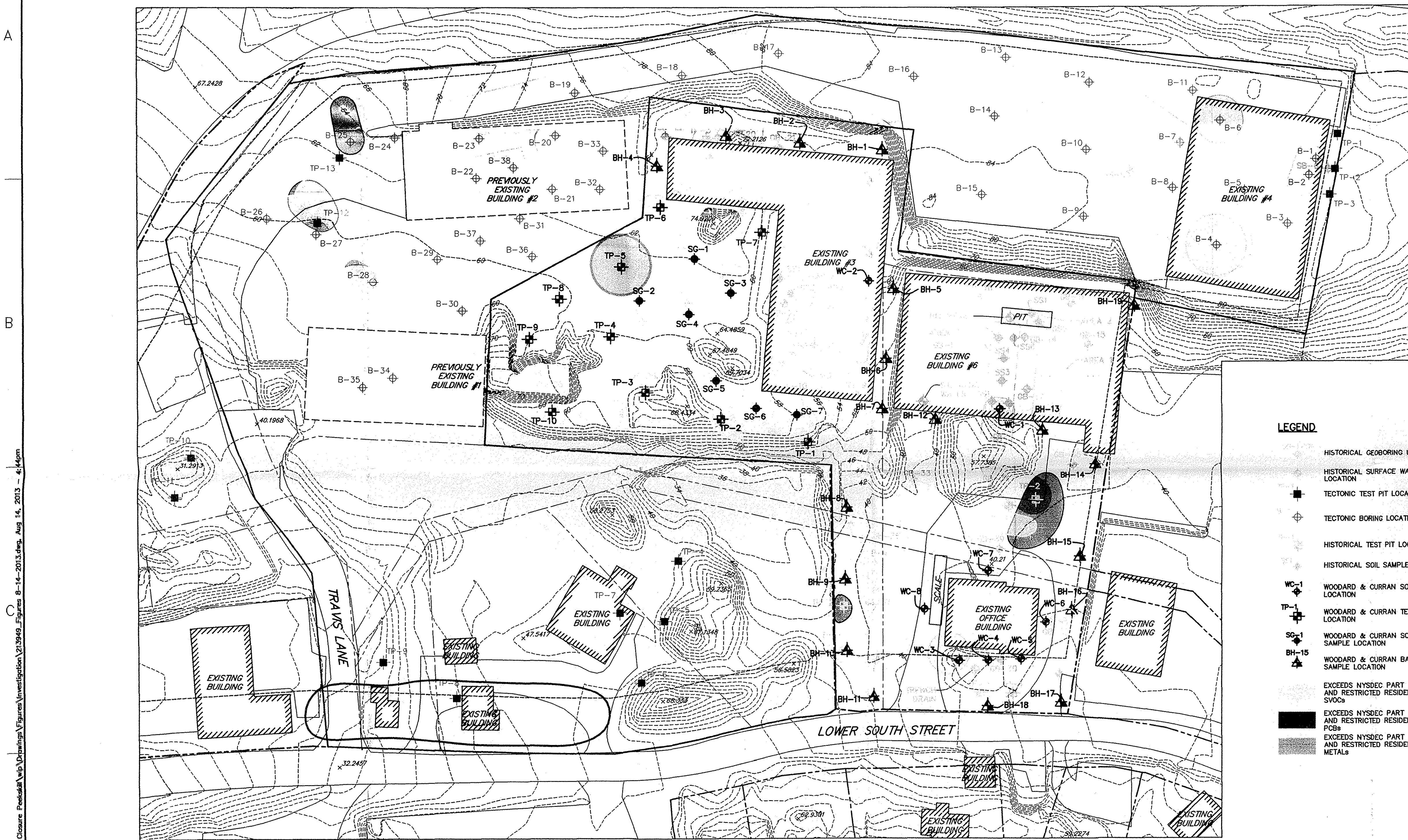
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12/01/03	TP-1, TP-2, TP-3, TP-4, TP-5, TP-6, TP-7, TP-8, TP-9, TP-10, WC-1, WC-2, WC-3, WC-4, WC-5, GB-16, GB-37, SS-1, SS-2, SS-3, SS-4, SS-5, SS-6	1

POLYCHLORINATED BIPHENYL
ANALYTICAL DATA

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566

SITE CLOSURE INVESTIGATION REPORT/
FACILITY CLOSURE PLAN

JOB NO.: 213949
DATE: AUGUST 2013
SCALE: 1"=60'
SHEET: OF
FIGURE 10

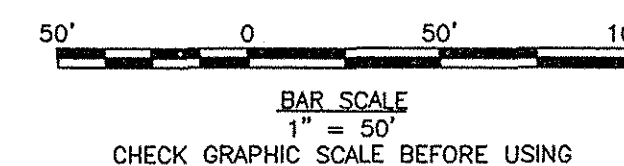


LEGEND

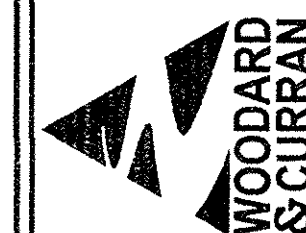
- HISTORICAL GEOBORING LOCATION
- HISTORICAL SURFACE WATER SAMPLE LOCATION
- TECTONIC TEST PIT LOCATION
- TECTONIC BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- HISTORICAL SOIL SAMPLE LOCATION
- WOODARD & CURRAN SOIL BORING LOCATION
- WOODARD & CURRAN TEST PIT LOCATION
- WOODARD & CURRAN SOIL GAS SAMPLE LOCATION
- WOODARD & CURRAN BAR HOLE SAMPLE LOCATION
- EXCEEDS NYSDEC PART 375 UNRESTRICTED AND RESTRICTED RESIDENTIAL SCO FOR SVOCs
- EXCEEDS NYSDEC PART 375 UNRESTRICTED AND RESTRICTED RESIDENTIAL SCO FOR PCBs
- EXCEEDS NYSDEC PART 375 UNRESTRICTED AND RESTRICTED RESIDENTIAL SCO FOR METALS

NOTE:

- EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.



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COMMITMENT & INTEGRITY DRIVE RESULTS

REV	DESCRIPTION	DATE
1	DESIGNED BY: 213949	8-14-2013
2	CHECKED BY: 213949	8-14-2013
3	DRAWN BY: 213949	8-14-2013

NYSDEC PART 375 RESTRICTED RESIDENTIAL EXCEEDANCES

KARTA CORPORATION
1013-1017 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566

SITE CLOSURE INVESTIGATION REPORT/
FACILITY CLOSURE PLAN

JOB NO: 213949
DATE: AUGUST 2013
SCALE: 1"=50'

SHEET: 1 OF 1

FIGURE 11

Appendix E: Data Usability Summary Report (DUSR)

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

October 14, 2016

Will Olsen
Chazen Engineering Land Surveying & Landscape Architecture Co, DPC
21 Fox Street
Poughkeepsie, NY 12601

RE: **Data Usability Summary Report for the Lower South Street Site**
Phase II and Remedial Investigation (RI)
Chemtech SDG Nos. F2336, F2341, H3951, H3972, H3995, and H4043

Dear Mr. Olsen:

Review has been completed for the data generated by Chemtech Laboratories that pertain to samples collected between 05/13/14 and 07/11/16 at the Lower South Street site. Twenty three soil samples and a soil field duplicate were processed for TCL volatiles, TCL semivolatiles, Aroclor PCBs, and RCRA metals. Fifty eight additional soil samples and three field duplicates were processed for various combinations of either TCL or an extended volatile analyte list, TCL semivolatiles, Aroclor PCBs, TAL metals, and total lead. Nine 6L summa canisters were processed for volatile analytes. The analytical protocols utilized are those of the USEPA SW846. Data pertaining to the SPLP and TCLP analyses reported in the data packages did not require validation review.

The data packages submitted contain full deliverables for validation, and this usability report is generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers in accordance with the project QAPP of August 2016, using guidance from the USEPA Region 2 validation SOPs, the USEPA CLP National Functional Guidelines for Data Review, the specific laboratory methodologies, and professional judgment, as affects the usability of the data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Blind Field Duplicate Correlations
- * Preparation and Calibration/Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- * Calibration/Low Level Standards
- * Serial Dilution Correlations
- * Instrument IDLs
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most sample results are usable either as reported, with edit, or with qualification. However, there were apparent matrix effects affecting primarily volatile processing. The following data are rejected:

- twelve volatile compounds in each of two soil samples
- one volatile compound in all samples due to low response inherent in the methodology
- benzaldehyde in three soil samples due to laboratory processing
- one other semivolatile compound in fifteen soil samples due to laboratory processing
- one semivolatile compound in one soil sample, and four semivolatiles in another soil sample, due to apparent matrix effect

Numerous volatile analyte results have been qualified as estimated due to apparent matrix effects

Overall data completeness, accuracy and precision for analytes other than the volatiles, representativeness, and the analytical method comparability are acceptable.

Included with this report are laboratory analytical requirement summary forms showing sample identifications covered in this report. Those forms do not accurately reflect the required analyses. Also included are the laboratory EQUIS EDDs, annotated to reflect qualifications recommended within this report.

The following text discusses quality issues of concern.

Sample Receipt/Chain-of-Custody

The down-arrow was missing from the collection date on the second page of the custodies for samples reported in H3972.

The requirements for the volatile analyses for LSS-SS-SS03(0-2in) and LSS-SB-SB25(0.5-2.5) were not designated on the custody form, but were added at sample receipt.

The final receipt signature is not present on the first page of the custody form for samples reported in SDG H3995.

Writeovers should have been initialed and initialed.

Blind Field Duplicates

Blind field duplicate evaluations were performed on a follows:

- PCBs and total lead on LSS-SB-SB12(0-2in) and LSS-SB-SB25(0.5-2.5ft)
- semivolatiles on LSS-SB-SB06(0-2ft)
- volatiles, semivolatiles, PCBs, and RCRA metals on 1011-SB-5(1.5-3.4)

Correlations fall within validation guidelines.

pTCLVolatile Analyses by EPA 8260C

All results for LL-SB-9(4-8) are qualified as estimated, with a low bias, due to analysis performed one day beyond the allowable holding time.

Due to very low internal standard recoveries, the results for twelve volatile analytes in LSS-SB-SB21(1-3ft) and LSS-SB-SB22(1-3ft) are rejected, and not usable.

Due to low internal standard responses, indicating a matrix effect, results for either seven, eight or twelve analytes in the following samples are qualified as estimated in value: 1011-SB-1(8-10), 1011-SB-4(1.5-3.5), 1011-SB-6(4-6.2), LSS-SS-SS03(0-2in), LSS-SS-SS05(0-2in), LSS-SB-SB16(0-2ft), LSS-SB-SB18(0-2ft), LSS-SB-SB19(0-2ft), LSS-SB-SB25(0.5-2.5ft), LSS-SB-SB28(0.5-2.5ft), and LL-SB-9(0-2).

The results for the volatiles analytes in the samples reported in SDG H3972 have been qualified as estimated due to the fact that they were not collected according to EPA method 5035 methodology. There may be a low bias.

Results for all analytes not already rejected in 1011-SB-2(4-8) and LSS-SB-SB22(1-3ft) are qualified as estimated due to low surrogate recoveries on repeated analysis, indicating a matrix effect.

The results for detected analytes in the following samples are qualified as estimated, with a possible high bias, due to elevated surrogate standard responses. In many cases the reanalyses were used due to poor internal standard responses in the initial analyses: LL-SB-1(0-2), LL-SB-2(0-2), LL-SB-4(0-2), LL-SB-1(4-8), and LL-SB-6A(8-10).

The result for benzene in 1011-SB-4(1.5-3.5) is edited to reflect non-detection due to very poor mass spectral quality.

Matrix spikes of 1011-SB-3(4-6.5), LSS-SB-SB05(0-2ft), and LSS-MW-SB22(20) show recoveries and correlations within validation guidelines, with the following exceptions, results for which are qualified as indicated in the parent sample:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
1011-SB-3 (4-6.5)	acetone	152	34
	carbon disulfide	169	29
	isopropylbenzene	221,174	23

Results for analytes initially reported with the laboratory "E" flag are derived from the dilution analyses of the samples.

Results for 1,4-dioxane in all samples are rejected due to very poor instrument response inherent in the methodology. Other calibration standards show acceptable responses, with the following exceptions, the results for which have been qualified as estimated in the indicated samples:

Tentatively Identified Compounds (TICs) that are reported with a CAS number should also have been qualified with an “N” flag to indicate a tentative identification.

TCL Semivolatiles by EPA 8270C

Surrogate and internal standard responses are within required range. Blanks show no contamination of target analytes. Holding times were met.

Calibration standards showed acceptable responses, with the following exception. The results for that compound in the following associated samples are qualified as estimated: pentachlorophenol (22%D) in LSS-SB-SB03 (0-2ft), LSS-SB-SB04 (0-2ft), LSS-SB-SB05 (0-2ft), LSS-SB-XD01, LSS-SB-SB07(5-7ft), LSS-SB-SB08(0-2in), LSS-SB-SB08(0-2ft), LSS-SB-SB09(0-2in), LSS-SB-SB09(0-2ft), LSS-SB-SB10(0-2in), LSS-SB-SB10(0-2ft), and LSS-SB-SB10(10-12ft).

The results for benzaldehyde are rejected in the soil samples reported in SDG F2336 and F2341 due to lack of recovery in the associated LCS.

The results for 1,4-dioxane in all samples and blanks reported in SDG H3972, and in LSS-EB01, are rejected due to lack of recovery in the associated LCSs.

2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol produced low recoveries (14% to 36%) in the LCS associated with the soil samples reported in SDG F3951. The results for those three compounds in those samples have been qualified as estimated in value.

The matrix spikes of TR-SB-1(6-8) and LSS-MW-SB22(20) show recoveries and duplicate correlations that are within validation guidelines. LSS-SB-SB05 (0-2ft) show outlying recoveries in the matrix spikes, but they were processed at fivefold dilution and the evaluation is therefore not applicable.

1011-SB-3(4-46.5) produced recoveries below 10% for hexachlorocyclopentadiene in the matrix spikes of the sample, and the results for that compound in that sample are rejected and not usable. The matrix spikes produced responses for the PAHs that are significantly higher than the parent sample, indicating a likely non-homogeneous matrix. The results for detected PAHs in the parent sample are qualified as estimated, with a likely low bias. bis(2-Chloroisopropyl) ether aka 2,2-oxybis(1-chloropropane) showed low recoveries (42% and 27%), and the result for that compound is qualified as estimated in value.

The matrix spikes of LSS-SS-SS04(0-2in) produced recoveries below 10% for analytes hexachlorocyclopentadiene, 2,4-dinitrophenol, 1,4-dioxane, and 4,6-dinitro-2-methylphenol. The results for those compounds are therefore rejected in the indicated parent sample. Other outlying accuracy and precision recoveries in LSS-SS-SS04(0-2in), as well as outliers in the matrix spikes of 1011-SB-1 (8-10) are listed below, results for which are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Analyte</u>	<u>Outlying % Recoveries</u>	<u>Outlying %RPD</u>
1011-SB-1 (8-10)	pyridine	29,37	24
LSS-SS-SS04(0-2in)	bis(2-ethylhexyl)phthalate	-147,-166	

Results for analytes initially reported with the “E” laboratory flag are derived from the dilution analyses of the samples.

Many samples were processed at dilution with little or no target analyte detection. The laboratory cites matrix effects (viscosity). This results in elevated reporting limits.

Tentatively Identified Compounds (TICs) that are reported with a CAS number should also have been qualified with an “N” flag to indicate a tentative identification. Those flagged by the laboratory as “A” and/or “B” are external contamination and are to be disregarded as sample components

Aroclor PCBs by EPA methods 8082A

Due to low surrogate standard recoveries, the results for the PCBs in LSS-SB-SB10(0-2ft) and LSS-SS-SS05(0-2in) are qualified as estimated, with a low bias.

Results for analytes initially reported with the “E” laboratory flag are derived from the dilution analyses of the samples.

The Aroclor 1016/1260 matrix spikes of TR-SB-1(6-8), LSS-SB-SB05(0-2ft), LSS-SB-SB21(1-3ft), and LSS-MW-SB22(20) show recoveries and correlations within laboratory acceptance ranges/limits.

The matrix spike evaluations of 1011-SB-3(4-6.5) and LSS-SS-04(0-2in) are not applicable due to the Aroclor components in the parent samples.

The detected results of Aroclor responses that exhibit elevated dual column quantitative correlations have been qualified as estimated.

Detected results for samples reporting a combination of Aroclor 1242 and 1254 are qualified as estimated, with a high bias, due to cross contribution of congener responses.

TAL Metals, RCRA Metals, and Total Lead by EPA 6010C, 7470, and 7471

Because the dissolved fraction of LSS-MW-SB22(20) was filtered in the laboratory, with subsequent delayed preservation, those results are qualified as estimated in value.

TAL or RCRA metals matrix spikes of 1011-SB-3(4-6.5), LL-SB-1(0-2), LSS-SB-SB05 (0-2ft), total and dissolved fractions of LSS-MW-SB22(20), the mercury matrix spikes of LL-SB-9(4-8), and the total lead matrix spikes of LSS-SB-SB11(0-2in), show acceptable recoveries and correlations, with the following exceptions, the results for which are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Element</u>	<u>Outlying % Recoveries</u>
LSS-SB-SB05 (0-2ft)	antimony	13,13
	cobalt	130,127
	lead	197,194

	nickel	34,29
	silver	69,69
<u>Parent Sample</u>	<u>Element</u>	<u>Outlying % Recoveries</u>
LSS-SS-SS04(0-2in)	antimony	18,18
	chromium	38,38
	silver	20,21

The serial dilution evaluations of 1011-SB-3(4-6.5), and the total and dissolved fractions of LSS-MW-SB22(20) show acceptable correlations. LSS-SB-SB05 (0-2ft), LL-SB-1(0-2), LSS-SS-SS04(0-2in), and LSS-SB-SB11(0-2in) show acceptable correlations for all except the following exceptions, the results for which are qualified as estimated in the indicated parent sample:

<u>Parent Sample</u>	<u>Element</u>	<u>%Difference</u>
LSS-SB-SB05 (0-2ft)	barium	18
	calcium	21
	chromium	19
	copper	23
	magnesium	18
	manganese	23
	mercury	48
	potassium	18
	vanadium	18
LSS-SS-SS04(0-2in)	calcium	16
	cadmium	24
	chromium	65
	copper	16
	iron	87
	manganese	19
	nickel	32
LL-SB-1(0-2)	chromium	18

Volatile Analyses by EPA TO-15

The following samples exhibited elevated internal standards for one or more internal standard. The detected values for analytes associated with the outlying internal standards have been qualified as estimated. The affected samples are: LSS-SV-SV02, LSS-SV-SV07, and LSS-SV-SV08

Results for analytes initially reported with the “E” laboratory flag are derived from the dilution analyses of the samples.

The laboratory duplicate evaluation of LSS-OA-OA01 shows acceptable correlations.

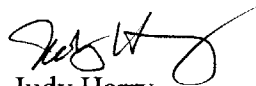
Holding times and instrument tunes meet requirements.

Initial and continuing calibration standard responses fall within validation guidelines, with the exception of those for styrene (32%RSD) and 1,4-dioxane (33%D). Results for those two analytes in the sample have been qualified as estimated. It is noted that the laboratory is misreporting the relative response factor (RRF) for 1,4-dioxane on the QC summary forms as being 1000 times the actual.

An observed elevated LCS recovery does not affect associated sample results, as they show no detection of that analyte.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,



Judy Harry

cc: Validation Qualifier Definitions
Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Cover Page

Order ID : F2336**Project ID :** Karta**Client :** Chazen Companies**Lab Sample Number**

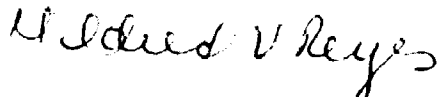
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F2336-05
F2336-06
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F2336-10
F2336-11
F2336-13
F2336-14

Client Sample Number

1011-SB-1(8-10)
1011-SB-2(4-8)
1011-SB-3(4-6.5)
F2336-03MS
F2336-03MSD
1011-SB-4(1.5-3.5)
1011-SB-5(1.5-3.4)
1011-SB-6(4-6.2)
1011-SB-7(2-4)
1011-SB-DUP
1011-SB-1(8-10)
1011-SB-3(4-6.5)
1011-SB-4(1.5-3.5)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

**APPROVED**

DATE: 6/11/2014

By Mildred V Reyes at 10:13 am, Jun 11, 2014

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Cover Page

Order ID : F2341**Project ID :** Karta**Client :** Chazen Companies**Lab Sample Number**

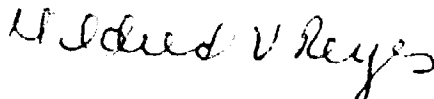
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F2341-10
F2341-11
F2341-12
F2341-13
F2341-14
F2341-15
F2341-16

Client Sample Number

LL-SB-1(0-2)
LL-SB-1(4-8)
LL-SB-2(0-2)
LL-SB-2(4-8)
LL-SB-3(0-2)
LL-SB-4(0-2)
LL-SB-4(4-6.8)
LL-SB-5(0-2)
LL-SB-5(6-8)
LL-SB-6(0-2)
LL-SB-6A(8-10)
LL-SB-7(0-2)
LL-SB-8(0-2)
LL-SB-8(4-6)
LL-SB-9(0-2)
LL-SB-9(4-8)

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

**APPROVED**

By Mildred V Reyes at 2:48 pm, Jun 02, 2014

Date: 5/31/2014

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Cover Page

Order ID : H3951**Project ID :** 81323.07 Karta**Client :** Chazen Companies**Lab Sample Number**

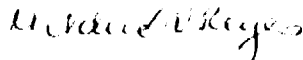
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H3951-14
H3951-15
H3951-16
H3951-17
H3951-18
H3951-19
H3951-20
H3951-21
H3951-22
H3951-23
H3951-24
H3951-25

Client Sample Number

LSS-SB-SB01(0-2in)
LSS-SB-SB01(0-2ft)
LSS-SB-SB01(7-9ft)
LSS-SB-SB02(0-2in)
LSS-SB-SB02(0-2ft)
LSS-SB-SB02(11-13ft)
LSS-SB-SB03(0-2in)
LSS-SB-SB03(0-2ft)
LSS-SB-SB03(5-7ft)
LSS-SB-SB04(0-2in)
LSS-SB-SB04(0-2ft)
LSS-SB-SB04(2-3.5ft)
LSS-SB-SB05(0-2in)
LSS-SB-SB05(0-2ft)
LSS-SB-SB05(2-4ft)
LSS-SB-SB06(0-2in)
LSS-SB-SB06(0-2ft)
LSS-SB-SB06(7-9ft)
LSS-SB-SB07(0-2in)
LSS-SB-SB07(0-2ft)
H3951-14MS
H3951-14MSD
LSS-SB-XD01
LSS-EB01
LSS-TB01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _

**APPROVED**

By Mildred V Reyes, QAQC Supervisor at 2:54 pm, Jul 22, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Cover Page

Order ID : H3972**Project ID :** 81323.07 Karta**Client :** Chazen Companies**Lab Sample Number**

H3972-01
H3972-02
H3972-03
H3972-04
H3972-05
H3972-06
H3972-07
H3972-08
H3972-09
H3972-10
H3972-11
H3972-12
H3972-13
H3972-14
H3972-15
H3972-16
H3972-17
H3972-18
H3972-19

Client Sample Number

LSS-SB-SB07(5-7ft)
LSS-SB-SB08(0-2in)
LSS-SB-SB08(0-2ft)
LSS-SB-SB08(8-10ft)
LSS-SB-SB09(0-2in)
LSS-SB-SB09(0-2ft)
LSS-SB-SB09(13-15ft)
LSS-SB-SB10(0-2in)
LSS-SB-SB10(0-2ft)
LSS-SB-SB10(10-12ft)
LSS-SS-SS01(0-2in)
LSS-SS-SS02(0-2in)
LSS-SS-SS03(0-2in)
LSS-SS-SS04(0-2in)
LSS-SS-SS05(0-2in)
H3972-14MS
H3972-14MSD
LSS-EB02
LSS-TB02

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Signature : *Mildred V Reyes*

NYDOH CERTIFICATION NO - 11376

APPROVED

DATE: 7/25/2016

By Mildred V Reyes, QAQC Supervisor at 3:07 pm, Jul 25, 2016

NJDEP CERTIFICATION NO - 20012

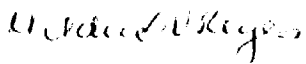
Cover Page**Order ID :** H3995**Project ID :** 81323.07 Karta**Client :** Chazen Companies**Lab Sample Number**

H3995-01
H3995-02
H3995-03
H3995-04
H3995-05
H3995-06
H3995-07
H3995-08
H3995-09
H3995-10
H3995-11
H3995-12
H3995-13
H3995-14
H3995-15
H3995-16
H3995-17
H3995-18
H3995-19
H3995-20
H3995-21
H3995-22
H3995-23
H3995-24
H3995-25
H3995-26
H3995-27
H3995-28
H3995-29
H3995-30

Client Sample Number

LSS-SB-SB11(0-2in)
LSS-SB-SB12(0-2in)
LSS-SB-SB12(0-2ft)
LSS-SB-SB12(2-4ft)
LSS-SB-XD02
LSS-SB-SB16(0-2in)
LSS-SB-SB16(0-2ft)
LSS-SB-SB16(4-6ft)
LSS-SB-SB18(0-2in)
LSS-SB-SB18(0-2ft)
LSS-SB-SB18(6.5-8.5ft)
LSS-SB-SB19(0-2in)
LSS-SB-SB19(0-2ft)
LSS-EB03
LSS-SB-SB21(1-3ft)
LSS-SB-SB21(5-7ft)
LSS-SB-SB22(10-15ft)
LSS-SB-SB22(1-3ft)
LSS-SB-SB23(0.5-2.5ft)
LSS-SB-SB23(2.5-4.0ft)
LSS-SB-SB24(0.5-2.5ft)
LSS-SB-SB24(5-7ft)
LSS-SB-SB25(0.5-2.5ft)
LSS-SB-XD03
LSS-SB-SB28(0.5-2.5ft)
LSS-MW-SB22(20)
H3995-26MS
H3995-26MSD
LSS-EB04
LSS-TB03

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Signature : **APPROVED**

By Mildred V Reyes, QAQC Supervisor at 11:43 am, Jul 26, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Cover Page

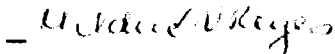
Order ID : H4043**Project ID :** Air 81323.07 Karta**Client :** Chazen Companies**Lab Sample Number**

H4043-01
H4043-02
H4043-03
H4043-04
H4043-05
H4043-06
H4043-07
H4043-08
H4043-09

Client Sample Number

LSS-SV-SV01
LSS-SV-SV02
LSS-SV-SV03
LSS-SV-SV04
LSS-SV-SV05
LSS-SV-SV06
LSS-SV-SV07
LSS-SV-SV08
LSS-OA-OA01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : 

APPROVED

By Mildred V Reyes, QAQC Supervisor at 3:53 pm, Jul 27, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Appendix F: Electronic Submittal of RIR, DUSR Qualifiers (Data Validation Services), and Laboratory Reports (Chemtech)