AECOM Environment

Prepared For:
United Technologies Corp.
Shared Remediation Services
Farmington, CT

Prepared By :
AECOM
257 West Genesee St.
Suite 400
Buffalo, NY 14202-2657
June 28, 2016

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
THOMPSON ROAD, SYRACUSE, NY
Sampling and Analysis Report

Corrective Action Order - Index CO 7-20051118-4

NYSDEC Site Registry #734043

AECOM Environment

Prepared For:
United Technologies Corp.
Shared Remediation Services
Farmington, CT

Prepared By :
AECOM
257 West Genesee St.
Suite 400
Buffalo, NY 14202-2657
June 28, 2016

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
THOMPSON ROAD, SYRACUSE, NY
Sampling and Analysis Report

Corrective Action Order - Index CO 7-20051118-4
NYSDEC Site Registry #734043

Prepared for:

United Technologies

UTC Shared Remediation Services
9 Farm Springs Road
Farmington, Connecticut 06032

Prepared By:

AECOM USA, Inc.
257 West Genesee Street, Suite 400
Buffalo, New York 14202

Contents

List of Tables

List of Figures

List of Appendices

1.0 Introduction

1.1 Site Description

The Southeast Debris/Soil Pile (Debris Pile) is a 3.8-acre parcel of land located at the United Technologies Corporation (UTC)/Carrier facility on Thompson Road in Syracuse, Onondaga County, New York (Site). The Debris Pile area and the Site are shown on **Figure 1**. Historical information provided by Site personnel indicated that the Debris Pile area was used to stockpile soils and construction and demolition (C&D) debris generated from various onsite activities between the late 1980s and early 2000s. The Debris Pile was comprised largely of soil with moderate amounts of C&D debris stockpiled predominantly within the northwest corner of the Debris Pile.

In 2013, after an initial assessment identified the presence of polychlorinated biphenyls (PCBs) in the pile, a new Area of Concern (AOC) was created, as required by the Corrective Action Order (CAO) – Index CO 7-20051118-4 for the UTC/Carrier Thompson Road facility. AECOM performed supplemental delineation sampling in 2014 and prepared a Self-Implementing Cleanup and Disposal Plan (SIP) that was approved by the United States Environmental Protection Agency (USEPA) in June 2014. Remedial excavation and post-excavation PCB sampling occurred between July 2014 and December 2014.

1.2 Report Objective

The CAO required the preparation of a sampling and analysis program to determine whether there was migration of hazardous wastes and/or hazardous constituents from the AOC to the environment. A Sampling and Analysis Plan (SAP), dated July 2015, was prepared to meet this requirement and was approved by the New York State Department of Environmental Conservation (NYSDEC).

The specific objectives of the SAP included:

- Assessing the vertical extent of constituents of interest in soil within the footprint of the former Debris Pile;
- Assessing the lateral and vertical extent of constituents of interest in soil, if any, outside the former Debris Pile periphery;
- Evaluating the potential transport of these constituents in stormwater; and
- Assessing whether dissolved constituents have impacted groundwater.

This Sampling and Analysis Report was prepared to summarize the results of the outlined sampling program and demonstrate satisfactory remediation of the AOC when considered in conjunction with the post-excavation PCB data from 2014.

2.0 Site History

This section describes the historical investigations and remedial actions performed at the Debris Pile.

2.1 Previous Investigations

2.1.1 Initial AOC Assessment

In July 2013, at UTC's request, EnSafe Inc. (EnSafe) personnel inspected the Debris Pile and interviewed Carrier personnel regarding its past uses. The Debris Pile was observed to be approximately 250 feet (ft) wide by 580 ft long, with varying heights ranging from a maximum of 6 to 8 ft above the surrounding grade, but predominantly less than 4 ft high. The Debris Pile was surrounded by an 8-ft high chain-link fence with a single access gate on the west side. EnSafe observed pieces of concrete slab and wood block flooring on the surface of the Debris Pile. The Debris Pile consisted primarily of soil, some of which had a petroleum-like odor. The EnSafe report identified asphaltic materials in numerous test pits. Carrier personnel indicated that some of these materials may have originated in areas of former manufacturing operations. During the assessment, 102 soil samples and 16 C&D rubble samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, pesticides, herbicides, and Resource Conservation and Recovery Act (RCRA) metals (total). In addition, suspect asbestos-containing material (ACM) was observed within the pile.

The results of the soil sample analyses are listed below:

- No metals exceeded the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limits.
- PCBs were detected in the majority of the samples. However, most concentrations were less than 1 milligram per kilogram (mg/kg). The maximum concentration of PCBs detected in any sample from the Debris Pile was 18.6 mg/kg.

2.1.2 Confirmation Sampling Event

A confirmation sampling event was conducted by AECOM in April 2014. The confirmation sampling results indicated that nine of the 65 soil samples collected contained PCB concentrations above 1 mg/kg. The total PCB concentration in seven of those nine samples ranged from 1.27 to 1.98 mg/kg. Of the remaining two samples, one had a PCB concentration of 15.5 mg/kg and the other sample had a concentration of 69.4 mg/kg.

2.2 Remedial Action

2.2.1 Remedial Activities

Site mobilization for the Debris Pile remedial activities began in late July 2014. Remedial excavation and post-excavation PCB sampling occurred between July 2014 and December 2014. The remedial work was performed in accordance with the approved SIP and consisted of excavation and off-site disposal of almost 70,000 tons of soil and debris, which essentially consisted of the entire pile.

The existing erosion and sediment controls that surrounded the Debris Pile prior to the start of work were left in place and maintained during and following removal of the Debris Pile. Catch basins located downgradient (to the north) of the Debris Pile had previously been covered with a geotextile

layer and surrounded by hay bales, which were left in place during and following the conclusion of remedial activities.

2.2.2 Verification Sampling Results and Demobilization

In accordance with the USEPA-approved SIP, one surface sample was collected within each of 264 25-ft by 25-ft sections (grid sections) within the footprint of the former Debris Pile. A surface sample was collected from 0 to 2 inches below ground surface (bgs) at each location. The soil samples were analyzed for PCBs using USEPA Method 3550B/8082, per 40 CFR 761.272. **Figure 2** presents the verification sample locations. Sample results ranged from below method detection limits to 0.92 mg/kg total PCBs.

Following receipt of all of the verification sample results, winterization activities took place in mid-December 2014. Winterization included import of crusher run to fill low areas and grading of the ground surface to prevent ponding of precipitation, installation of erosion control matting across the entire footprint of the former Debris Pile, and installation of hay bales around the perimeter as an added measure of erosion control along the silt fence at the southern edge of the former Debris Pile. The post remediation elevation grades for the base of the former Debris Pile are presented in **Figure 2**. In early 2016, AECOM removed the temporary fence, silt fence, and straw wattles; broke up and spread hay the bales on-site; and cleared brush around the fence lines. The silt fence and straw wattles were loaded into roll-offs and disposed (presumed to be TSCA due to the complexities of waste characterization). The erosion control matting had degraded significantly and remained in place to be incorporated with cover soil.

3.0 Field Activities

A sampling and analysis program was executed to determine whether hazardous wastes and/or hazardous constituents migrated from the Debris Pile to the environment. The investigation was performed during the period of April 5 to 18, 2016. The field activities included shallow soil sampling, advancement of soil borings, installation of groundwater monitoring wells, investigation point location/elevation surveys, IDW management, and collection and analysis of soil and groundwater samples.

Sampling and analysis was performed in accordance with the SAP and site-specific Quality Assurance Project Plan (QAPP).

Prior to commencement of intrusive sampling activities, DigSafely NY was notified for utility clearance. Facility personnel were consulted in assessing the presence of buried utilities within the property boundaries. Each drilling location was pre-cleared by a utility locating subcontractor, and then by hand augering to 5 ft prior to drilling. IDW, including drill cuttings, development water, purge water, decontamination water, and sampling tubing, were drummed, labeled, and stored on-site pending analyses for appropriate disposal.

The field investigation included the collection and analysis of soil and groundwater samples. Analytical parameters included VOCs, SVOCs, PCBs, pesticides, herbicides, and metals. **Table 1** presents the sample summary including sampling rationale, depths, locations, and analytical parameters. **Table 2** provides a summary of the analytical methods, as well as bottle, preservation, and holding time requirements. **Table 3** presents the number of samples collected per media (i.e., soil and groundwater) as well as quality assurance/quality control (QA/QC) samples.

3.1 Shallow Soil Sampling

The shallow soil sampling program focused on the 0- to 2-ft bgs interval in and around the former Debris Pile. The soil samples were collected using hand augers and scanned for volatile organic vapors with a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp.

Samples for VOCs were collected using TerraCore samplers. For the remaining analytical parameters, soil was homogenized and then transferred into the appropriate sample containers.

The following bullets describe the sampling locations, which are depicted on **Figure 3 (**Note that the Figure 3 orthophoto base map shows the area after the Debris Pile had been removed).

- DP-SB-01 to DP-SB-05: These samples were collected from the five borings that were completed as monitoring wells. Four locations surround the former Debris Pile footprint and the fifth location was within the former Debris Pile in the area where previous sampling identified TSCA impacts. The samples were collected from 0 to 2 inches (in) bgs (0 to 6 in bgs for VOCs), 2 to 12 in bgs (6 to 12 in bgs for VOCs), and 12 to 24 in bgs at each location.
- DP-SB-06 to DP-SB-10: These samples were collected from within the footprint of the former Debris Pile. The samples were collected from 0 to 2 in bgs (0 to 6 in bgs for VOCs), 2 to 12 in bgs (6 to 12 in bgs for VOCs), and 12 to 24 in bgs at each location.

- DP-SB-11 to DP-SB-19: These samples were collected from locations surrounding the footprint of the former Debris Pile. The samples were collected from 0 to 2 in bgs (0 to 6 in bgs for VOCs), 2 to 12 in bgs (6 to 12 in bgs for VOCs), and 12 to 24 in bgs at each locations. No samples were held pending analysis, as originally planned.
- DP-SE-01 to DP-SE-05: The samples were collected from five locations in the stormwater drainage system in the Debris Pile area: one from each of four catch basins located along northern side of the former Debris Pile and one sample from the Kinne Street ditch at the outlet of storm sewer piping on the north side of the entrance to UTC's facility from Kinne Street, immediately west of Winchester Road. This ditch also conveys stormwater from areas upgradient of the Site.

3.2 Monitoring Well Installation and Groundwater Sampling

Soil borings DP-SB-01 through DP-SB-05 were converted into permanent monitoring wells DP-MW-01 through DP-MW-05 on April 12 and 13, 2016. Drilling services were provided by Parratt Wolff. The borings were advanced to depths of 12 ft each using a track-mounted Geoprobe combination direct-push/hollow stem auger rig (model 6712DT). Soil samples were collected continuously using a 2-inch diameter by 4-ft long, acetate-lined Macrocore sampler. The samples were inspected for evidence of contamination (e.g., staining and odors) and screened with a PID. Copies of boring logs prepared by the supervising AECOM geologist are presented in **Appendix A**.

The monitoring wells were constructed with 10-slot, 2-in diameter flush-coupled polyvinyl chloride (PVC) screen with a solid riser. Groundwater was observed at depths ranging from 3 to 5 ft bgs. The wells were screened from 2 to 12 ft bgs. A sand filter (NJ #0) was placed in the boring around the annulus space extending from the bottom of the well screen to approximately 0.5 ft above the top of the screen. Bentonite was placed above the sand filter. Monitoring wells DP-MW-01, DP-MW-02, and DP-MW-04 were completed with flush-mount casings and, because of standing water, wells DP-MW-03 and DP-MW-05 were completed with lockable steel stand-up casings. The casings were set in concrete, which was sloped away from the casing. Monitoring well construction logs are provided in **Appendix A** and a table of well construction details is provided in **Table 4**.

The monitoring wells were developed on April 14, 2016 by over-pumping to remove the fines and develop the filter pack. Water quality measurements of pH, conductivity, temperature, and turbidity were periodically recorded during the development process. Wells DP-MW-01, DP-MW-02, and DP-MW-04 were pumped dry several times during development. Copies of well development logs are provided in **Appendix B.**

Groundwater samples were collected from the new wells on April 18, 2016 using the low-flow purge technique. Water quality measurements of pH, conductivity, dissolved-oxygen, oxidation-reduction potential, temperature, and turbidity were recorded during the purging process. Copies of the purge logs are provided in **Appendix C.**

3.3 Surveying

The soil boring and monitoring well locations were surveyed for location and elevation by a licensed AECOM land surveyor. Locations and elevations were measured to 0.01 ft. Location measurements were referenced to New York State Plane Central Zone North American Datum of 1983 (NAD 83) and elevations were referenced to North American Vertical Datum of 1988 (NAVD 88). Survey information is provided in **Table 4**.

3.4 Analytical Program

The soil and groundwater samples were placed in new, laboratory-supplied glass jars, labeled, packed in a cooler with ice, and transported via courier to SGS Accutest Laboratories under appropriate chain of custody procedures. The samples were submitted for analytical testing for the parameters listed in **Table 2** under standard turnaround time. Category B deliverable packages were requested for all sample delivery groups.

4.0 Investigation Results

4.1 Field Screening Results

4.1.1 Soil Observations

A total of 14 shallow soil borings were advanced to a depth of 2 ft bgs and five soil borings were advanced to a depth of 12 ft bgs. In addition, five soil samples were collected from the stormwater drainage system. In general, the shallow soils within the former Debris Pile footprint consist of clayey silt with gravel and trace brick, concrete, and asphalt fragments. Deeper, natural deposits consist of fine sand, at times alternating with silt and clay units. No odors, staining, or elevated PID readings were observed in sampled soils.

4.1.2 Groundwater Observations

Groundwater was not encountered in the shallow (2-ft deep) borings. In the deeper borings, groundwater was encountered at depths ranging from 3 to 5 ft below grade. Following well installation, groundwater level measurements were recorded during well development and purging activities. Water table elevations are included in the well construction details in **Table 4**. **Figure 4** presents the groundwater contour map based on the April 18, 2016 measurements. The figure shows groundwater flow to the north-northeast in the Debris Pile area.

4.2 Laboratory Analytical Results

The analytical results were validated by an AECOM chemist following USEPA Region II data validation procedures. The validated data is provided in a data usability summary report (DUSR). A copy of the DUSR narrative is provided in **Appendix D. The DUSR appendices are available upon request.**

Field and laboratory quality control samples for the investigation were collected and analyzed to document the accuracy and precision of the samples, in general accordance with the QAPP. The QA/QC samples included trip blanks, field duplicates, matrix spikes, and matrix spike duplicates.

Where applicable, the DUSR presents deviations from the relevant QC requirements and the associated qualifications to the sample data warranted by these deviations. QC issues discussed in detail in the DUSR include surrogate sample recoveries, matrix spike recoveries, duplicate sample analyses, instrument calibration and performance and method and field blank sample analyses. The report also presents copies of the laboratory reporting forms with hand written qualifications made by the data reviewer. The data presented in the summary tables included in this report reflect these qualifications.

4.2.1 Applicable Standards, Criteria, and Guidance

The soil analytical results, presented in **Table 5**, are compared to industrial use soil cleanup objectives (SCOs) listed in New York Codes, Rules and Regulations (NYCRR) Part 375.

The groundwater analytical results, presented in **Table 6**, are compared to New York State Ambient Water Quality Standards (AWQS) and Guidance Values in Technical & Operational Guidance Series (TOGS) Version 1.1.1, June 1998, with June 2004 Addendum.

4.2.2 Soil Results

A total of 57 shallow soil samples were collected from 18 soil borings in April 2016. Samples were collected from three depth intervals including 0- to 2-in (0- to 6-in for VOCs), 2- to 12- in (6- to 12-in for VOCs) and 12- to 24-in bgs. **Figure 5** and **Table 5** provide a summary of analytical results.

When compared against industrial use SCOs, no samples exhibited exceedances for VOCs, pesticides, herbicides, PCBs, or metals.

Of the 57 samples analyzed for SVOCs, ten samples exceeded one or more industrial use SCOs. Benzo(a)pyrene was the only compound above the SCO in seven of the ten samples.

4.2.3 Groundwater Results

A total of five groundwater samples (DP-MW-01 to DP-MW-05) were collected and analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides and RCRA metals. Both filtered and unfiltered samples were collected for PCB analysis.

No PCBs, pesticides, or herbicides were detected in the groundwater samples. As shown in **Table 6,** two VOCs were detected, but at concentrations below the corresponding groundwater standards.

One SVOC, bis(2-ethylehexyl)-phthalate, was detected in at a concentration slightly above the groundwater criterion in one sample, MW-02, at 5.7 mg/L. The groundwater standard for this SVOC is 5 mg/L. Bis(2-ethylehexyl)-phthalate is commonly considered a laboratory artifact or contaminant derived from field sampling equipment, materials, or procedures.

None of the RCRA metals were detected at concentrations above the groundwater standards.

4.2.4 Storm Drainage Results

Four soil samples were collected from perimeter catch basins along the north side of the former Debris Pile (DP-SE-01 to DP-SE-04). These basins discharge to the Kinne Steet drainage ditch. One soil sample (DP-SE-05) was collected from the ditch. In addition to stormwater runoff from the former Debris Pile area, the ditch receives stormwater from adjacent roadways, parking lots, and drainage from locations upgradient of the UTC Site.

No VOCs, SVOCs, pesticides, PCBs, or metals were detected in the catch basin samples at concentrations above industrial SCOs (see **Figure 5 and Table 5**).

No VOCs, pesticides, PCBs, or metals were detected in sample DP-SE-05 from the Kinne Street ditch at concentrations above industrial SCOs. Sample DP-SE-05 did contain two SVOCs above industrial SCOs: benzo(a)pyrene was detected at 6.7 mg/kg and dibenz(a,h)anthracene was detected at 1.45 mg/kg. The industrial SCO for both compounds is 1.1 mg/kg.

5.0 Summary of Findings

5.1 Nature and Extent of Contamination

No VOCs, pesticides, herbicides, PCBs, or metals were detected in the soil samples at concentrations exceeding the industrial use SCOs.

SVOCs were reported above industrial use SCOs in multiple locations in and around the former Debris Pile. SVOCs may be attributable to partial combustion of carbon-based fuels and as a result, are common contaminants. SVOCs are also commonly found in urban fill. Specifically, the compounds detected above criteria are polycyclic aromatic hydrocarbons (PAHs) which are commonly associated with asphaltic products and runoff from roadways and parking lots. Such compounds are widespread in urban areas.

No contaminants were detected in the catch basin samples at concentrations above industrial use SCOs. However, the sample from the Kinne Street drainage ditch contained two SVOCs, benzo(a)pyrene and dibenz(a,h)anthracene, at concentrations above industrial use SCOs. This ditch also receives stormwater runoff from adjacent roadways and locations upgradient of the Site. Based on the absence of SVOCs in the other four storm drainage system samples, the SVOCs present in the Kinne Street ditch appear to be common urban contamination and not associated with the Debris Pile.

Collection and analysis of groundwater samples from five locations within and around the former Debris Pile footprint did not identify the presence of PCBs, SVOCs, VOCs, metals, pesticides, or herbicides above groundwater standards, with the exception of one detection of one SVOC, bis(2-ethylhexyl)phthalate, which is considered a likely artifact of sampling or analytical methods.

5.2 Contaminant Fate & Transport

SVOCs are generally hydrophobic with low aqueous solubilities. The absence of SVOCs exceedances in the catch basin samples and in groundwater samples demonstrates that they are not migrating offsite.

5.3 Risk/Exposure Assessments

Soil sampling was performed at the Debris Pile to confirm satisfactory remediation and demonstrate that Debris Pile contaminants have not migrated from the Site. Based on all collected data, including post-excavation analysis of 264 soil samples for PCBs and the results from the current investigation, a limited presence of SVOCs was reported above industrial use SCOs. The subsections below address the potential human health and ecological exposure risks associated with the residual contaminants.

5.3.1 Exposure Point Concentrations

A total of 12% (7 of 57) of samples exceeded industrial SCOs for SVOCs. The two samples with the highest SVOC concentrations were the 2- to 12-in interval samples from DP-SB-09 and DP-SB-15. The SVOC concentrations in these samples were an order of magnitude higher than the other samples.

AECOM evaluated average SVOC concentrations by depth interval, assigning samples with results below detection limits a conservative value of one-half the method detection limit. For the 0- to 2-in

interval, the average concentration for one SVOC, benzo(a)pyrene slightly exceeded the industrial SCO (see **Table 7,** calculations are provided in **Appendix E**). For the 2- to 12-in interval, three average SVOC concentrations exceeded the industrial SCOs – these exceedances were largely due to the elevated levels of SVOCs in DP-SB-09 and DP-SB-15. For the 12- to 24-in interval, none of the average SVOC concentrations exceeded the industrial SCOs.

For non-residential use, the NYSDEC Policy CP-51 / Soil Cleanup Guidance (Paragraph 5.H) allows for a subsurface soil cleanup level of 500 ppm for total PAHs. This cleanup level requires a one foot cover of clean soil (or a pavement, structure or similar cover); as well as Institutional controls (e.g. an environmental easement); and a soils management plan. Both the DP-SB-09 and DP-SB-15 areas exceed this level.

Final site restoration has not yet occurred. In accordance with the NYSDEC approved Debris Pile Interim Remedial Measure (IRM), dated July 10, 2014, the restoration will consist of a minimum of 6 inches of topsoil placed over the footprint of the pile and seeded, providing a vegetated soil cover, thereby reducing the potential for exposure. Given the requirements of CP-51, the restorations should include excavation and offsite disposal of those soils that exceed the 500 ppm criteria for PAHs, and an increase in the soil cover to a minimum of 12 inches..

5.3.2 Human Health

SVOCs were reported in excess of industrial SCOs, primarily for benzo(a)pyrene. In general, SVOC impacts were limited to a 2- to 12-in thick interval within the top 24 in of soil. No significant impacts were reported in immediately adjacent storm drainage or groundwater samples.

The human receptor population includes Carrier employees, contractors, and utility workers (industrial use). In addition, a new baseball field was recently constructed south of the former Debris Pile. Possible human receptors might include trespassers from the ball field. The potential for future human exposure via dermal contact, ingestion, or inhalation will be mitigated by removal of the subsurface soils exceeding 500 ppm for PAHs and final grading and restoration activities which is anticipated to include a soil and vegetative over the current ground surface. Future land use of the former Debris Pile area is anticipated to remain industrial and site-wide institutional controls and a site-wide soils management plan will be elements of the overall site remediation plan

5.3.3 Ecological

The need for a Fish and Wildlife Impact Analysis (FWIA) is specified in the NYSDEC document entitled “Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (FWIA)” [NYSDEC, 1994]. As indicated in the document, a complete first step for a FWIA (Step I Site Description) is necessary for sites with fish and wildlife resources that may be affected by site-related contaminants. If no resources are associated with the site, or if there is no potential for contaminant migration to the resources, then information to support that conclusion should be provided.

These contaminants were not identified in groundwater or in adjacent on-site storm drainage; therefore, no significant risk to aquatic life is presented. Although the top foot of soil is considered to be the primary biotic zone, topsoil will be spread on-site as part of final grading activities. NYSDEC has not developed specific soil cleanup objectives to assess ecological risk for the majority of reported SVOCs, with the exception of benzo(a)pyrene at 2.6 mg/kg. The overall residual risk to ecological receptors appears to be limited and, in general, consistent with an urban setting; therefore, no further ecological exposure assessment (i.e. an FWIA) is deemed necessary for site closure.

6.0 Conclusions

The following conclusions may be drawn based on data collected to date for the former Debris Pile:

- PCBs were the primary contaminants of concern identified during the Debris Pile assessment and the overall driver for the 2014 remedial action that removed approximately 70,000 tons of waste. SVOCs, metals, and to a lesser extent VOCs and pesticides, were encountered in waste material during the initial Debris Pile assessment. Post-excavation PCB sampling was performed on a total of 264 soil samples, which did not identify the presence of PCBs above the residential SCO of 1 mg/kg.

- The April 2016 sampling effort included collection of 57 shallow soil samples from the top 2 ft of soil at 18 boring locations, installation and groundwater sampling of five monitoring wells and collection of five soil samples from nearby stormwater drainage. An extensive analytical program was performed, which included VOCs, SVOCs, RCRA Metals, pesticides, herbicides, and PCBs (outside the former Debris Pile only).

- Laboratory analysis of soil identified a limited presence of several SVOCs above industrial use SCOs. No groundwater impacts were identified and contaminants detected within storm drainage were limited to a location that receives runoff and drainage from upstream contributors and adjacent paved areas. A limited evaluation of the residual risk presented by these compounds suggests that exposure potential is limited in nature and characteristic of the urban project setting.

- The objective of the sampling effort was to assess potential migration of Debris Pile contaminants beyond the footprint of the Debris Pile. The data indicates the absence of contaminant migration.

Following excavation of soils exceeding 500 ppm for PAHs, the potential risk presented by remaining contaminants is considered to fall within an acceptable range when factoring in the site setting, lack of migration, limited vertical extent of impacts, and that Site restoration activities will provide a vegetated soil cover. The actual depth of the cover will vary as needed to provide a grading plan that promotes positive drainage, but will be a minimum of 12 inches,. Also, the final grading plan may involve some consolidation of the impacted soil outside the western perimeter of the debris pile to within the original footprint.

Once developed, and prior to implementation, the final excavation and grading plan will be provided to NYSDEC for their records.

No action is proposed within the Kinne Street Ditch.

Tables

TABLE 1

Field and Laboratory Sample Summary
Southeast Debris/Soil Pile

FIELD TASK	RATIONALE	DEPTHS	LOCATIONS	QUAN.	MEDIA	ANALYTICAL
Sampling of Soil Borings	Assess potential leaching of constituents from former Debris Pile to soils adjacent to its former footprint.	0 - 2 inches (0 - 6 inches VOCs only)	Collect soil samples from 5 locations using an auger rig while installing monitoring wells. Collect soil samples from 8 additional locations using a hand auger.	13	Soil	VOCs +10 TICs; SVOCs +20 TICs; PCBs; RCRA 8 Metals; Pest; Herb
		2 - 12 inches (6 - 12 inches VOCs only)		13	Soil	VOCs +10 TICs; SVOCs +20 TICs; PCBs; RCRA 8 Metals; Pest; Herb
		12 - 24 inches		13	Soil	VOCs +10 TICs; SVOCs +20 TICs; PCBs; RCRA 8 Metals; Pest; Herb
	Assess potential leaching of constituents from former Debris Pile to soils within former TSCA area.	0 - 2 inches (0 - 6 inches VOCs only)	Collect soil samples from 1 location using an auger rig while installing a monitoring well.	1	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
		2 - 12 inches (6 - 12 inches VOCs only)		1	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
		12 - 24 inches		1	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
	Assess potential leaching of constituents from former Debris Pile to soils underlying its former footprint.	0 - 2 inches (0 - 6 inches VOCs only)	Collect soil samples from 5 locations within the former footprint of Debris Pile using a hand auger.	5	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
		2 - 12 inches (6 - 12 inches VOCs only)		5	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
		12 - 24 inches		5	Soil	VOCs +10 TICs; SVOCs +20 TICs; RCRA 8 Metals; Pest; Herb
Drainage System Soil Sampling	Assess potential releases of constituents to storm water catch basins and drainage ditch.	Soil in basin and ditch	Four catch basins adjacent to Debris Pile; Kinne Street ditch.	5	Soil	VOCs +10 TICs; SVOCs +20 TICs; PCBs; RCRA 8 Metals; Pest; Herb
Groundwater Sampling	Assess potential impacts to groundwater from constituents present in the former Debris Pile.	Assumed completion depth at 15 feet bgs	Four locations adjacent to Debris Pile; one location in former TSCA area of Debris Pile.	5	Groundwater	VOCs +10 TICs; SVOCs +20 TICs; PCBs; RCRA 8 Metals; Pest; Herb

TSCA: Toxic Substances Control Act of 1976
VOCs: Volatile Organic Compounds
SVOCs: Semi-Volatile Organic Compounds
PCBs: Polychlorinated Biphenyls
RCRA 8: Resource Conservation and Recovery Act Metals Analyte List (8 Metals)
Pest: Pesticides
Herb: Herbicides
TICs: Tentatively Identified Compounds
bgs: below ground surface

Table 2
Sample Bottle, Volume, Preservation, and Holding Time Summary
Southeast Debris/Soil Pile

MATRIX/ANALYSIS	Sample Prep Method [1]	Analytical Method [(2)]	Sample Bottles (3)				Minimum	Preservation	Holding Time (4, 5)		Comment
			Mat'l	Size	Qty	Source	Vol Rqd	(4)	Extraction	Analysis	
Aqueous Samples											
Volatile Organics	SW 846 5030B	SW 846 8260C	G	40 mL	2 or 3	Lab	40 mL	HCl to pH ≤ 2	NA	14 days	7 days if not preserved.
Semivolatile Organics	SW 846 3510C/3520C/3535A	SW 846 8270D	G	1 L	2	Lab	1 L	None	7 days	40 days	
Pesticides/Herbicides	SW 846 3510C/3520C/3535A	SW 846 8081B/SW 846 8151A	G	1 L	1	Lab	1 L	None	7 days	40 days	
PCBs	SW 846 3510C/3520C/3535A	SW 846 8082A	G	1 L	1	Lab	1 L	None	7 days	40 days	
RCRA 8 Metals (except Mercury)	SW 846 3005A/3010A/3020A	SW 846 6010C	P	250 mL	1	Lab	200 mL	HNO_3 to pH≤ 2	NA	180 days	180 days for RCRA 8 Metals except mercury.
Mercury	SW 846 7470A	SW 846 7470A	"	"	"	"	"	"	NA	28 days	28 days for mercury.
Non-Aqueous Samples											
Volatile Organics	SW 846 5035A	SW 846 8260C	TerraCore	5 or 25 g	3 or 1	Vendor	5 g	None	NA	48 hours	
Semivolatile Organics	SW 846 3540C/3541/3545A	SW 846 8270D	G	8 oz [(6)]	1	Lab	30 g	None	14 days	40 days	
Pesticides/Herbicides	SW 846 3540C/3541/3545A	SW 846 8081B/SW 846 8151A	G	"	"	Lab	30 g	None	14 days	40 days	
PCBs	SW 846 3540C/3541/3545A	SW 846 8082A	G	"	"	Lab	30 g	None	14 days	40 days	
RCRA 8 Metals (except Mercury)	SW 846 3050B/3051A/3052	SW 846 6010C	G	"	"	Lab	10 g	None	NA	180 days	180 days for RCRA 8 Metals except mercury.
Mercury	SW 846 7471B	SW 846 7471B	"	"	"	"	2 g	"	NA	28 days	28 days for mercury.

(1) SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. USEPA SW-846. Complete through Update IV, March 2009.
(2) Most recent versions of SW-846 methods.
(3) TerraCore samplers for VOCs in soil provided by laboratory.
(4) All samples for chemical analysis held at 4 degrees C in addition to any chemical preservation required.
(5) Holding time calculated from day of collection, unless noted as being from time of extraction. Laboratory holding times (ASP 2005, Exhibit I) are two days shorter to allow for field handling and shipping.
(6) A single 8-oz sample is sufficient for SVOCs, pesticides, PCBs, and metals.
G = Glass
P = Plastic

Table 3
Reporting Limits and QA/QC Sample Quantity Summary
Southeast Debris/Soil Pile

MATRIX/ANALYSIS	Analytical Method	Laboratory	Reporting Limit -Typical (units as specified)	Field Sample Quantity	Matrix Spike (MS) or LCS	MS Duplicate or Matrix Duplicate	Field Duplicate	Equipment Blank	Trip Blank	Total Analyses
Aqueous Samples										
Volatile organics	SW 846 8260C	ACCUTEST	0.5 - 1.0 µg/L (typical)	5	1	1	1	1	1	10
Semivolatile organics	SW 846 8270D	ACCUTEST	10 - 20 µg/L (typical)	5	1	1	1	1	0	9
Pesticides/Herbicides	SW 846 8081B/SW 846 8151A	ACCUTEST	0.05 - 0.5 µg/L (typical)	5	1	1	1	1	0	9
PCBs	SW 846 8082A	ACCUTEST	33 µg/L	5	1	1	1	1	0	9
RCRA 8 Metals	SW 846 6010C/7470A	ACCUTEST	Analyte-specific	5	1	1	1	1	0	9
Soil Samples										
Volatile organics	SW 846 8260C	ACCUTEST	5 µg/kg (typical)	62	4	4	4	4	0	78
Semivolatile organics	SW 846 8270D	ACCUTEST	330 µg/kg (typical)	62	4	4	4	4	0	78
Pesticides/Herbicides	SW 846 8081B/SW 846 8151A	ACCUTEST	1.7-3.3 µg/kg (typical)	62	4	4	4	4	0	78
PCBs	SW 846 8082A	ACCUTEST	57 - 70 µg/kg	44	3	3	3	3	0	56
RCRA 8 Metals	SW 846 6010C/7471B	ACCUTEST	Analyte-specific	62	4	4	4	4	0	78

RCRA 8 = Resource Conservation and Recovery Act Metals Analyte List (8 Metals)
PCBs = polychlorinated biphenyls
µg/L = micrograms per liter
µg/kg = micrograms per kilogram
LCS = Laboratory Control Sample
Total and dissolved PCB analyses on aqueous samples

TABLE 4
Soil Boring and Monitoring Well Details
Southeast Debris/Soil Pile

Monitoring Well/Soil Boring	Date Installed/ Advanced	Coordinates		Surface Elevation (ft)	Total Depth (ft bgs)	Hole Diameter (inches)	Well Diameter (inches)	Measuring Point Elevation (ft)	Screen Interval (ft bgs)	Screen Interval (Elevations)	Protective Casing	Depth to Water* (ft bgs)
		N	E									
DP-MW-01	4/12/16	1123220.64	954880.49	406.14	12.0	8	2	405.82	2.0 - 12.0	404.1 - 394.1	Flushmount	2.80
DP-MW-02	4/12/16	1123133.30	955153.64	407.54	12.0	8	2	407.22	2.0 - 12.0	405.5 - 395.5	Flushmount	4.86
DP-MW-03	4/13/16	1122921.52	954901.99	407.16	12.0	8	2	409.76	2.0 - 12.0	405.2 - 395.2	Stickup	3.50
DP-MW-04	4/12/16	1122974.74	954593.56	408.75	12.0	8	2	408.38	2.0 - 12.0	406.8 - 396.8	Flushmount	1.70
DP-MW-05	4/13/16	1122995.89	954882.97	407.35	12.0	8	2	409.93	2.0 - 12.0	405.4 - 395.4	Stickup	3.56
DP-SB-06	4/6/16	1123121.14	954726.48	407.75	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-07	4/6/16	1123111.82	954880.22	407.78	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-08	4/7/16	1123127.11	955040.44	407.71	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-09	4/7/16	1123001.27	955051.33	407.38	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-10	4/6/16	1122997.28	954737.15	407.37	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-11	4/6/16	1123215.32	954765.28	407.26	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-12	4/6/16	1123223.80	955006.78	406.04	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-13	4/7/16	1122996.02	955171.55	407.24	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-14	4/6/16	1122920.82	955020.67	406.61	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-15	4/6/16	1122909.70	954793.90	407.17	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-16	4/5/16	1123094.86	954588.12	407.59	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-17	4/7/16	1123232.43	955199.18	405.94	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-18	4/7/16	1123066.72	955211.60	406.07	2.0	4	NA	NA	NA	NA	NA	NA
DP-SB-19	4/7/16	1122927.57	955220.23	406.52	2.0	4	NA	NA	NA	NA	NA	NA

Notes

1. Horizontal grid based on New York State Plane Central Zone (NAD 83).
2. Vertical datum NAVD 88.

NA = Not Applicable

* - Depth to water measured on April 18, 2016

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01
Sample ID			DP-SB-01(0-2)	DP-SB-01(0-6)	DP-SB-01(2-12)	DP-SB-01(6-12)	DP-SB-01(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	2.2 U	NA	2.8 U	2.3 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	2.2 U	NA	2.8 U	2.3 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	2.2 U	NA	2.8 U	2.3 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	2.2 U	NA	2.8 U	2.3 U
Acetone	UG/KG	1.00E+06	NA	111 J	NA	153 J	73.1 J
Benzene	UG/KG	89000	NA	0.41 J	NA	1.2	0.56 U
Carbon disulfide	UG/KG	-	NA	1.7 J	NA	1.8 J	5.6 U
Ethylbenzene	UG/KG	7.80E+05	NA	2.2 U	NA	2.8 U	2.3 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	22 U	NA	28 U	23 U
Methylene chloride	UG/KG	1.00E+06	NA	2.2 U	NA	2.8 U	2.3 U
Tetrachloroethene	UG/KG	3.00E+05	NA	2.2 U	NA	2.8 U	2.3 U
Toluene	UG/KG	1.00E+06	NA	5.5 U	NA	1.0 J	5.6 U
Trichloroethene	UG/KG	4.00E+05	NA	2.2 U	NA	1.2 J	2.3 U
Xylene (total)	UG/KG	1.00E+06	NA	2.2 U	NA	2.8 U	2.3 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
2-Methylnaphthalene	UG/KG	-	570 U	NA	530 U	NA	120 U
Acenaphthene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Acenaphthylene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Anthracene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Benzo(a)anthracene	UG/KG	11000	327 J	NA	300 J	NA	120 U
Benzo(a)pyrene	UG/KG	1100	432 J	NA	406 J	NA	120 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:50 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01
Sample ID			DP-SB-01(0-2)	DP-SB-01(0-6)	DP-SB-01(2-12)	DP-SB-01(6-12)	DP-SB-01(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	466 J	NA	433 J	NA	120 U
Benzo(g,h,i)perylene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	364 J	NA	366 J	NA	120 U
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Butylbenzylphthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Carbazole	UG/KG	-	570 U	NA	530 U	NA	120 U
Chrysene	UG/KG	1.10E+05	384 J	NA	340 J	NA	120 U
Dibenz(a,h)anthracene	UG/KG	1100	570 U	NA	530 U	NA	120 U
Dibenzofuran	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Diethylphthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Dimethylphthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Di-n-butylphthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Di-n-octylphthalate	UG/KG	-	1,400 U	NA	1,300 U	NA	290 U
Fluoranthene	UG/KG	1.00E+06	611	NA	538	NA	120 U
Fluorene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	570 U	NA	530 U	NA	120 U
Naphthalene	UG/KG	1.00E+06	570 U	NA	530 U	NA	120 U
Phenanthrene	UG/KG	1.00E+06	216 J	NA	191 J	NA	120 U
Pyrene	UG/KG	1.00E+06	475 J	NA	416 J	NA	120 U
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	5.6 U	NA	5.4 U	NA	5.8 U
4,4'-DDE	UG/KG	1.20E+05	1.8 NJ	NA	2.3 NJ	NA	5.8 UJ

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01	DP-SB-01
Sample ID			DP-SB-01(0-2)	DP-SB-01(0-6)	DP-SB-01(2-12)	DP-SB-01(6-12)	DP-SB-01(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	R	NA	R	NA	5.8 UJ
alpha-Chlordane	UG/KG	47000	5.6 UJ	NA	5.4 UJ	NA	5.8 UJ
Dieldrin	UG/KG	2800	5.6 UJ	NA	5.4 UJ	NA	5.8 UJ
gamma-Chlordane	UG/KG	-	5.6 U	NA	5.4 U	NA	5.8 U
Heptachlor epoxide	UG/KG	-	5.6 U	NA	5.4 U	NA	5.8 U
Herbicides							
2,4-D	UG/KG	-	8.8 J	NA	9.0 J	NA	23 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	38 U	NA	27 U	NA	29 U
Aroclor 1260	UG/KG	-	28.6 J	NA	44.3 J	NA	29 U
Total Polychlorinated Biphenyls	UG/KG	25000	28.6 J	NA	44.3 J	NA	29 U
Metals							
Arsenic	MG/KG	16	2.2	NA	2.1	NA	7.0
Barium	MG/KG	10000	33.2	NA	142	NA	117
Cadmium	MG/KG	60	0.35 U	NA	0.33 U	NA	0.65
Chromium	MG/KG	6800	17.9	NA	8.9	NA	16.1
Lead	MG/KG	3900	20.1	NA	19.7	NA	12.9
Mercury	MG/KG	5.7	0.032 U	NA	0.028 U	NA	0.039
Selenium	MG/KG	6800	0.87 U	NA	0.82 U	NA	0.87 U
Silver	MG/KG	6800	0.44 U	NA	0.41 U	NA	0.44 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:50 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02
Sample ID			DP-SB-02(0-2)	DP-SB-02(0-6)	DP-SB-02(2-12)	DP-SB-02(6-12)	DP-SB-02(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	1.7 U	NA	2.3 U	2.8 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.7 U	NA	2.3 U	2.8 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	1.7 U	NA	2.3 U	2.8 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.7 U	NA	2.3 U	2.8 U
Acetone	UG/KG	1.00E+06	NA	187 J	NA	388 J	185 J
Benzene	UG/KG	89000	NA	0.57	NA	1.3	0.69 U
Carbon disulfide	UG/KG	-	NA	1.5 J	NA	1.9 J	6.9 U
Ethylbenzene	UG/KG	7.80E+05	NA	1.7 UJ	NA	2.3 U	2.8 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	8.6 U	NA	23 U	28 U
Methylene chloride	UG/KG	1.00E+06	NA	1.7 U	NA	2.3 U	2.8 U
Tetrachloroethene	UG/KG	3.00E+05	NA	1.7 UJ	NA	2.3 U	2.8 U
Toluene	UG/KG	1.00E+06	NA	4.3 U	NA	1.3 J	6.9 U
Trichloroethene	UG/KG	4.00E+05	NA	0.28 J	NA	2.8	2.8 U
Xylene (total)	UG/KG	1.00E+06	NA	1.7 UJ	NA	0.64 J	2.8 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	290 U	NA	290 U	NA	310 U
2-Methylnaphthalene	UG/KG	-	35.1 J	NA	40.7 J	NA	120 U
Acenaphthene	UG/KG	1.00E+06	84.2 J	NA	53.7 J	NA	120 U
Acenaphthylene	UG/KG	1.00E+06	25.8 J	NA	26.9 J	NA	18.0 J
Anthracene	UG/KG	1.00E+06	186	NA	122	NA	15.2 J
Benzo(a)anthracene	UG/KG	11000	558	NA	382	NA	64.5 J
Benzo(a)pyrene	UG/KG	1100	526	NA	348	NA	70.8 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:50 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02
Sample ID			DP-SB-02(0-2)	DP-SB-02(0-6)	DP-SB-02(2-12)	DP-SB-02(6-12)	DP-SB-02(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	450	NA	338	NA	60.7 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	311 U	NA	187 U	NA	120 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	482	NA	312	NA	60.7 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	16.2 J	NA	28.9 J	NA	26.1 J
Butylbenzylphthalate	UG/KG	-	290 U	NA	290 U	NA	310 U
Carbazole	UG/KG	-	77.5 J	NA	68.8 J	NA	120 U
Chrysene	UG/KG	1.10E+05	536	NA	376	NA	78.7 J
Dibenz(a,h)anthracene	UG/KG	1100	120 U	NA	120 U	NA	120 U
Dibenzofuran	UG/KG	1.00E+06	33.8 J	NA	32.2 J	NA	120 U
Diethylphthalate	UG/KG	-	290 U	NA	290 U	NA	310 U
Dimethylphthalate	UG/KG	-	290 U	NA	290 U	NA	310 U
Di-n-butylphthalate	UG/KG	-	290 U	NA	290 U	NA	310 U
Di-n-octylphthalate	UG/KG	-	290 U	NA	290 U	NA	310 U
Fluoranthene	UG/KG	1.00E+06	1,090	NA	835	NA	140
Fluorene	UG/KG	1.00E+06	70.7 J	NA	49.3 J	NA	120 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	278 U	NA	171 U	NA	120 U
Naphthalene	UG/KG	1.00E+06	35.7 J	NA	41.3 J	NA	120 U
Phenanthrene	UG/KG	1.00E+06	692	NA	533	NA	73.3 J
Pyrene	UG/KG	1.00E+06	982	NA	648	NA	129
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	5.7 U	NA	5.9 U	NA	6 U
4,4'-DDE	UG/KG	1.20E+05	5.7 UJ	NA	5.9 UJ	NA	6 UJ

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02	DP-SB-02
Sample ID			DP-SB-02(0-2)	DP-SB-02(0-6)	DP-SB-02(2-12)	DP-SB-02(6-12)	DP-SB-02(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.2	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	5.7 UJ	NA	5.9 UJ	NA	6 UJ
alpha-Chlordane	UG/KG	47000	5.7 UJ	NA	5.9 UJ	NA	6 UJ
Dieldrin	UG/KG	2800	5.7 UJ	NA	5.9 UJ	NA	6 UJ
gamma-Chlordane	UG/KG	-	5.7 U	NA	5.9 U	NA	6 U
Heptachlor epoxide	UG/KG	-	5.7 U	NA	5.9 U	NA	6 U
Herbicides							
2,4-D	UG/KG	-	23 U	NA	6.5 J	NA	8.3 J
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	1,240	NA	1,620	NA	32.7
Aroclor 1260	UG/KG	-	693 J	NA	681 J	NA	29.2 J
Total Polychlorinated Biphenyls	UG/KG	25000	1,933 J	NA	2,301 J	NA	61.9 J
Metals							
Arsenic	MG/KG	16	4.7	NA	4.7	NA	4.5
Barium	MG/KG	10000	52.3	NA	61.6	NA	67.3
Cadmium	MG/KG	60	0.34 U	NA	0.36 U	NA	0.37 U
Chromium	MG/KG	6800	12.2	NA	16.0	NA	14.9
Lead	MG/KG	3900	26.8	NA	30.7	NA	15.0
Mercury	MG/KG	5.7	0.069	NA	0.085	NA	0.081
Selenium	MG/KG	6800	0.86 U	NA	0.9 U	NA	0.92 U
Silver	MG/KG	6800	0.43 U	NA	0.45 U	NA	0.46 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:50 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03
Sample ID			DP-SB-03(0-2)	DP-SB-03(0-6)	DP-SB-03(2-12)	DP-SB-03(6-12)	DP-SB-03(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	4.9 U	NA	2.2 U	1.7 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	4.9 U	NA	2.2 U	1.7 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	4.9 U	NA	2.2 U	1.7 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	4.9 U	NA	2.2 U	1.7 U
Acetone	UG/KG	1.00E+06	NA	359 J	NA	73.2 J	29.0 J
Benzene	UG/KG	89000	NA	1.2	NA	0.56 U	0.42 U
Carbon disulfide	UG/KG	-	NA	3.9 J	NA	5.6 U	4.2 U
Ethylbenzene	UG/KG	7.80E+05	NA	4.9 U	NA	2.2 U	1.7 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	49 U	NA	22 U	17 U
Methylene chloride	UG/KG	1.00E+06	NA	4.9 U	NA	2.2 U	1.7 U
Tetrachloroethene	UG/KG	3.00E+05	NA	4.9 U	NA	2.2 U	1.7 U
Toluene	UG/KG	1.00E+06	NA	1.3 J	NA	5.6 U	4.2 U
Trichloroethene	UG/KG	4.00E+05	NA	4.9 U	NA	2.2 U	1.7 U
Xylene (total)	UG/KG	1.00E+06	NA	4.9 U	NA	2.2 U	1.7 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	390 U	NA	380 U	NA	300 U
2-Methylnaphthalene	UG/KG	-	150 U	NA	150 U	NA	120 U
Acenaphthene	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Acenaphthylene	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Anthracene	UG/KG	1.00E+06	32.7 J	NA	16.7 J	NA	120 U
Benzo(a)anthracene	UG/KG	11000	184	NA	82.4 J	NA	120 U
Benzo(a)pyrene	UG/KG	1100	198	NA	84.1 J	NA	120 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:50 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03
Sample ID			DP-SB-03(0-2)	DP-SB-03(0-6)	DP-SB-03(2-12)	DP-SB-03(6-12)	DP-SB-03(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	206	NA	76.1 J	NA	120 U
Benzo(g,h,i)perylene	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	154	NA	71.2 J	NA	120 U
bis(2-Ethylhexyl)phthalate	UG/KG	-	133 J	NA	50.9 J	NA	300 U
Butylbenzylphthalate	UG/KG	-	174 J	NA	21.0 J	NA	300 U
Carbazole	UG/KG	-	30.4 J	NA	150 U	NA	120 U
Chrysene	UG/KG	1.10E+05	208	NA	91.3 J	NA	120 U
Dibenz(a,h)anthracene	UG/KG	1100	150 U	NA	150 U	NA	120 U
Dibenzofuran	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Diethylphthalate	UG/KG	-	390 U	NA	380 U	NA	300 U
Dimethylphthalate	UG/KG	-	390 U	NA	380 U	NA	300 U
Di-n-butylphthalate	UG/KG	-	390 U	NA	380 U	NA	300 U
Di-n-octylphthalate	UG/KG	-	390 U	NA	380 U	NA	300 U
Fluoranthene	UG/KG	1.00E+06	404	NA	183	NA	120 U
Fluorene	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	150 U	NA	150 U	NA	120 U
Naphthalene	UG/KG	1.00E+06	150 U	NA	150 U	NA	120 U
Phenanthrene	UG/KG	1.00E+06	187	NA	89.7 J	NA	120 U
Pyrene	UG/KG	1.00E+06	374	NA	149 J	NA	120 U
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7.9 U	NA	7.5 U	NA	6.2 U
4,4'-DDE	UG/KG	1.20E+05	7.9 U	NA	7.5 U	NA	6.2 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03	DP-SB-03
Sample ID			DP-SB-03(0-2)	DP-SB-03(0-6)	DP-SB-03(2-12)	DP-SB-03(6-12)	DP-SB-03(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.9 U	NA	7.5 U	NA	6.2 U
alpha-Chlordane	UG/KG	47000	7.9 U	NA	7.5 U	NA	6.2 U
Dieldrin	UG/KG	2800	7.9 U	NA	7.5 U	NA	6.2 U
gamma-Chlordane	UG/KG	-	7.9 U	NA	7.5 U	NA	6.2 U
Heptachlor epoxide	UG/KG	-	7.9 U	NA	7.5 U	NA	6.2 U
Herbicides							
2,4-D	UG/KG	-	16.2 J	NA	16.3 J	NA	24 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	22.1 J	NA	22.0 J	NA	31 U
Aroclor 1260	UG/KG	-	76.7	NA	85.0	NA	31 U
Total Polychlorinated Biphenyls	UG/KG	25000	98.8 J	NA	107 J	NA	31 U
Metals							
Arsenic	MG/KG	16	4.4	NA	5.0	NA	4.2
Barium	MG/KG	10000	67.5	NA	66.5	NA	64.5
Cadmium	MG/KG	60	2.2	NA	1.7	NA	0.37 U
Chromium	MG/KG	6800	14.9	NA	14.7	NA	16.1
Lead	MG/KG	3900	49.8	NA	48.4	NA	9.5
Mercury	MG/KG	5.7	0.074	NA	0.049	NA	0.036
Selenium	MG/KG	6800	1 U	NA	1.1 U	NA	0.91 U
Silver	MG/KG	6800	0.51 U	NA	0.56 U	NA	0.46 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04
Sample ID			DP-SB-04(0-2)	DP-SB-04(0-6)	DP-SB-04(2-12)	DP-SB-04(6-12)	DP-SB-04(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	2.2 U	NA	2.3 U	3.4 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	2.2 U	NA	2.3 U	3.4 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	2.2 U	NA	2.3 U	3.4 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	2.2 U	NA	2.3 U	3.4 U
Acetone	UG/KG	1.00E+06	NA	149 J	NA	136 J	115 J
Benzene	UG/KG	89000	NA	0.55 U	NA	0.73	0.85 U
Carbon disulfide	UG/KG	-	NA	5.5 U	NA	1.3 J	8.5 U
Ethylbenzene	UG/KG	7.80E+05	NA	2.2 U	NA	2.3 U	3.4 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	11 U	NA	12 U	17 U
Methylene chloride	UG/KG	1.00E+06	NA	2.2 U	NA	2.3 U	3.4 U
Tetrachloroethene	UG/KG	3.00E+05	NA	2.2 U	NA	2.3 U	3.4 U
Toluene	UG/KG	1.00E+06	NA	5.5 U	NA	5.8 U	8.5 U
Trichloroethene	UG/KG	4.00E+05	NA	2.2 U	NA	2.3 U	3.4 U
Xylene (total)	UG/KG	1.00E+06	NA	2.2 U	NA	2.3 U	3.4 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
2-Methylnaphthalene	UG/KG	-	2,700 U	NA	5,300 U	NA	17.7 J
Acenaphthene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	54.7 J
Acenaphthylene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	120 U
Anthracene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	123
Benzo(a)anthracene	UG/KG	11000	743 J	NA	5,300 U	NA	207
Benzo(a)pyrene	UG/KG	1100	894 J	NA	5,300 U	NA	172

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04
Sample ID			DP-SB-04(0-2)	DP-SB-04(0-6)	DP-SB-04(2-12)	DP-SB-04(6-12)	DP-SB-04(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	954 J	NA	5,300 U	NA	143
Benzo(g,h,i)perylene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	126 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	761 J	NA	5,300 U	NA	161
bis(2-Ethylhexyl)phthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Butylbenzylphthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Carbazole	UG/KG	-	2,700 U	NA	5,300 U	NA	49.9 J
Chrysene	UG/KG	1.10E+05	847 J	NA	5,300 U	NA	180
Dibenz(a,h)anthracene	UG/KG	1100	2,700 U	NA	5,300 U	NA	120 U
Dibenzofuran	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	33.2 J
Diethylphthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Dimethylphthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Di-n-butylphthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Di-n-octylphthalate	UG/KG	-	6,800 U	NA	13,000 U	NA	290 U
Fluoranthene	UG/KG	1.00E+06	1,620 J	NA	5,300 U	NA	441
Fluorene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	63.2 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000	2,700 U	NA	5,300 U	NA	120 U
Naphthalene	UG/KG	1.00E+06	2,700 U	NA	5,300 U	NA	30.9 J
Phenanthrene	UG/KG	1.00E+06	617 J	NA	5,300 U	NA	391
Pyrene	UG/KG	1.00E+06	1,210 J	NA	5,300 U	NA	351
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	6.9 U	NA	5.4 U	NA	6.1 U
4,4'-DDE	UG/KG	1.20E+05	6.9 U	NA	1.4 J	NA	6.1 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04	DP-SB-04
Sample ID			DP-SB-04(0-2)	DP-SB-04(0-6)	DP-SB-04(2-12)	DP-SB-04(6-12)	DP-SB-04(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	6.9 U	NA	5.4 U	NA	6.1 U
alpha-Chlordane	UG/KG	47000	6.9 U	NA	5.4 U	NA	6.1 U
Dieldrin	UG/KG	2800	6.9 U	NA	2.2 J	NA	6.1 U
gamma-Chlordane	UG/KG	-	6.9 U	NA	5.4 U	NA	6.1 U
Heptachlor epoxide	UG/KG	-	6.9 U	NA	5.4 U	NA	6.1 U
Herbicides							
2,4-D	UG/KG	-	11.1 J	NA	10.1 J	NA	9.2 J
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	350 U	NA	270 U	NA	87.3
Aroclor 1260	UG/KG	-	350 U	NA	270 U	NA	37.6 J
Total Polychlorinated Biphenyls	UG/KG	25000	350 U	NA	270 U	NA	124.9 J
Metals							
Arsenic	MG/KG	16	2.4	NA	2.4	NA	4.5
Barium	MG/KG	10000	40.8	NA	41.6	NA	84.7
Cadmium	MG/KG	60	0.63	NA	0.32 U	NA	2.2
Chromium	MG/KG	6800	27.8	NA	10.1	NA	19.8
Lead	MG/KG	3900	45.0	NA	19.7	NA	225
Mercury	MG/KG	5.7	0.036 U	NA	0.030	NA	0.070
Selenium	MG/KG	6800	1 U	NA	0.79 U	NA	0.96 U
Silver	MG/KG	6800	0.52 U	NA	0.39 U	NA	1.2

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05
Sample ID			DP-SB-05(0-2)	DP-SB-05(0-6)	DP-SB-05(2-12)	DP-SB-05(6-12)	DP-SB-05(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	2.5 U	NA	2.7 UJ	2.2 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	2.5 U	NA	2.7 UJ	2.2 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	1.6 J	NA	2.7 UJ	9.4 J
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	2.5 U	NA	2.7 UJ	2.2 U
Acetone	UG/KG	1.00E+06	NA	282 J	NA	160 J	106 J
Benzene	UG/KG	89000	NA	0.81	NA	0.81 J	0.47 J
Carbon disulfide	UG/KG	-	NA	1.8 J	NA	6.6 UJ	5.5 U
Ethylbenzene	UG/KG	7.80E+05	NA	2.5 U	NA	2.7 UJ	2.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	25 U	NA	27 UJ	22 U
Methylene chloride	UG/KG	1.00E+06	NA	2.5 U	NA	2.7 UJ	2.2 U
Tetrachloroethene	UG/KG	3.00E+05	NA	2.5 U	NA	2.7 UJ	14.7 J
Toluene	UG/KG	1.00E+06	NA	6.2 U	NA	0.97 J	0.44 J
Trichloroethene	UG/KG	4.00E+05	NA	3.7	NA	0.79 J	106 J
Xylene (total)	UG/KG	1.00E+06	NA	2.5 U	NA	2.7 UJ	2.2 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	1,500 U	NA	340 U	NA	300 U
2-Methylnaphthalene	UG/KG	-	610 U	NA	140 U	NA	43.1 J
Acenaphthene	UG/KG	1.00E+06	220 J	NA	38.3 J	NA	61.4 J
Acenaphthylene	UG/KG	1.00E+06	610 U	NA	140 U	NA	17.0 J
Anthracene	UG/KG	1.00E+06	399 J	NA	82.9 J	NA	150
Benzo(a)anthracene	UG/KG	11000	988	NA	171	NA	391
Benzo(a)pyrene	UG/KG	1100	865	NA	142	NA	351

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05
Sample ID			DP-SB-05(0-2)	DP-SB-05(0-6)	DP-SB-05(2-12)	DP-SB-05(6-12)	DP-SB-05(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	725	NA	116 J	NA	325
Benzo(g,h,i)perylene	UG/KG	1.00E+06	610 U	NA	140 U	NA	236 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	750	NA	130 J	NA	342
bis(2-Ethylhexyl)phthalate	UG/KG	-	765 J	NA	21.2 J	NA	53.0 J
Butylbenzylphthalate	UG/KG	-	1,500 U	NA	340 U	NA	300 U
Carbazole	UG/KG	-	189 J	NA	37.6 J	NA	72.1 J
Chrysene	UG/KG	1.10E+05	924	NA	162	NA	384
Dibenz(a,h)anthracene	UG/KG	1100	610 U	NA	140 U	NA	120 U
Dibenzofuran	UG/KG	1.00E+06	112 J	NA	21.1 J	NA	50.5 J
Diethylphthalate	UG/KG	-	1,500 U	NA	340 U	NA	300 U
Dimethylphthalate	UG/KG	-	1,500 U	NA	340 U	NA	300 U
Di-n-butylphthalate	UG/KG	-	1,500 U	NA	340 U	NA	300 U
Di-n-octylphthalate	UG/KG	-	108 J	NA	340 U	NA	300 U
Fluoranthene	UG/KG	1.00E+06	2,130	NA	386	NA	845
Fluorene	UG/KG	1.00E+06	207 J	NA	40.9 J	NA	73.4 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000	610 U	NA	140 U	NA	200 U
Naphthalene	UG/KG	1.00E+06	65.5 J	NA	21.0 J	NA	55.6 J
Phenanthrene	UG/KG	1.00E+06	1,510	NA	302	NA	595
Pyrene	UG/KG	1.00E+06	1,570	NA	337	NA	688
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7.9 U	NA	9.1 U	NA	13.5 NJ
4,4'-DDE	UG/KG	1.20E+05	7.9 U	NA	9.1 U	NA	20.0 NJ

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05	DP-SB-05
Sample ID			DP-SB-05(0-2)	DP-SB-05(0-6)	DP-SB-05(2-12)	DP-SB-05(6-12)	DP-SB-05(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.9 U	NA	9.1 U	NA	R
alpha-Chlordane	UG/KG	47000	7.9 U	NA	9.1 U	NA	7.9 UJ
Dieldrin	UG/KG	2800	13.3 J	NA	9.1 U	NA	6.2 J
gamma-Chlordane	UG/KG	-	7.9 U	NA	9.1 U	NA	7.9 U
Heptachlor epoxide	UG/KG	-	7.9 U	NA	9.1 U	NA	3.0 J
Herbicides							
2,4-D	UG/KG	-	16.8 J	NA	7.3 J	NA	9.0 J
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	5.7	NA	4.5	NA	5.2
Barium	MG/KG	10000	70.4	NA	72.9	NA	81.4
Cadmium	MG/KG	60	0.63	NA	0.41 U	NA	0.53
Chromium	MG/KG	6800	22.1	NA	13.9	NA	18.9
Lead	MG/KG	3900	64.7	NA	21.7	NA	44.9
Mercury	MG/KG	5.7	0.15	NA	0.080	NA	0.084
Selenium	MG/KG	6800	0.92 U	NA	1 U	NA	0.97 U
Silver	MG/KG	6800	0.46 U	NA	0.52 U	NA	0.48 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06
Sample ID			DP-SB-06(0-2)	DP-SB-06(0-6)	DP-SB-06(2-12)	DP-SB-06(6-12)	DP-SB-06(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 UJ	2.3 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.7 U	NA	1.8 U	2.3 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	3.1 J
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	2.3 U
Acetone	UG/KG	1.00E+06	NA	8.6 UJ	NA	8.8 UJ	129 J
Benzene	UG/KG	89000	NA	0.63	NA	0.40 J	0.90 J
Carbon disulfide	UG/KG	-	NA	10.5	NA	8.0 J	5.7 U
Ethylbenzene	UG/KG	7.80E+05	NA	1.7 U	NA	1.8 U	2.3 UJ
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	8.6 U	NA	8.8 U	23 U
Methylene chloride	UG/KG	1.00E+06	NA	0.45 J	NA	1.8 U	1.0 J
Tetrachloroethene	UG/KG	3.00E+05	NA	1.7 U	NA	1.8 U	2.3 UJ
Toluene	UG/KG	1.00E+06	NA	4.3 U	NA	4.4 U	5.7 U
Trichloroethene	UG/KG	4.00E+05	NA	0.89 J	NA	1.8 U	3.0 J
Xylene (total)	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	2.3 UJ
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
2-Methylnaphthalene	UG/KG	-	120 U	NA	1,100 U	NA	1,100 U
Acenaphthene	UG/KG	1.00E+06	46.2 J	NA	494 J	NA	1,100 U
Acenaphthylene	UG/KG	1.00E+06	120 U	NA	1,100 U	NA	1,100 U
Anthracene	UG/KG	1.00E+06	106 J	NA	883 J	NA	1,100 U
Benzo(a)anthracene	UG/KG	11000	161	NA	1,410	NA	209 J
Benzo(a)pyrene	UG/KG	1100	134	NA	1,220	NA	207 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06
Sample ID			DP-SB-06(0-2)	DP-SB-06(0-6)	DP-SB-06(2-12)	DP-SB-06(6-12)	DP-SB-06(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	135	NA	1,110	NA	180 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	86.0 J	NA	753 J	NA	142 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	104 J	NA	917 J	NA	1,100 U
bis(2-Ethylhexyl)phthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Butylbenzylphthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Carbazole	UG/KG	-	45.3 J	NA	556 J	NA	1,100 U
Chrysene	UG/KG	1.10E+05	148	NA	1,490	NA	214 J
Dibenz(a,h)anthracene	UG/KG	1100	29.8 J	NA	234 J	NA	1,100 U
Dibenzofuran	UG/KG	1.00E+06	22.6 J	NA	384 J	NA	1,100 U
Diethylphthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Dimethylphthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Di-n-butylphthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Di-n-octylphthalate	UG/KG	-	300 U	NA	2,800 U	NA	2,900 U
Fluoranthene	UG/KG	1.00E+06	400	NA	3,890	NA	405 J
Fluorene	UG/KG	1.00E+06	51.2 J	NA	617 J	NA	1,100 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	75.0 J	NA	654 J	NA	1,100 U
Naphthalene	UG/KG	1.00E+06	120 U	NA	351 J	NA	1,100 U
Phenanthrene	UG/KG	1.00E+06	384	NA	4,200	NA	283 J
Pyrene	UG/KG	1.00E+06	320	NA	2,740	NA	342 J
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7.4 J	NA	25.1	NA	6.8 J
4,4'-DDE	UG/KG	1.20E+05	8.2	NA	23.4	NA	8.1

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06	DP-SB-06
Sample ID			DP-SB-06(0-2)	DP-SB-06(0-6)	DP-SB-06(2-12)	DP-SB-06(6-12)	DP-SB-06(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	3.3 J	NA	5.0 J	NA	7.7 U
alpha-Chlordane	UG/KG	47000	8.2 U	NA	7.5 U	NA	7.7 U
Dieldrin	UG/KG	2800	8.2 U	NA	4.5 J	NA	7.7 U
gamma-Chlordane	UG/KG	-	8.2 U	NA	7.5 U	NA	7.7 U
Heptachlor epoxide	UG/KG	-	8.2 U	NA	2.0 J	NA	7.7 U
Herbicides							
2,4-D	UG/KG	-	24 U	NA	23 U	NA	23 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	4.4	NA	5.0	NA	4.6
Barium	MG/KG	10000	61.7	NA	55.1	NA	55.3
Cadmium	MG/KG	60	0.20 J	NA	0.13 J	NA	0.17 J
Chromium	MG/KG	6800	14.1	NA	10.8	NA	14.7
Lead	MG/KG	3900	13.1	NA	12.8	NA	14.6
Mercury	MG/KG	5.7	0.037	NA	0.024 J	NA	0.033 J
Selenium	MG/KG	6800	0.9 U	NA	0.89 U	NA	0.92 U
Silver	MG/KG	6800	0.45 U	NA	0.44 U	NA	0.46 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:51 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07
Sample ID			DP-SB-07(0-2)	DP-SB-07(0-6)	DP-SB-07(2-12)	DP-SB-07(6-12)	DP-SB-07(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	1.6 U	NA	2.5 U	2.4 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.6 U	NA	2.5 U	2.4 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	0.66 J	NA	2.5 U	2.4 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.6 U	NA	2.5 U	2.4 U
Acetone	UG/KG	1.00E+06	NA	110 J	NA	118 J	170 J
Benzene	UG/KG	89000	NA	0.54	NA	0.57 J	1.9 J
Carbon disulfide	UG/KG	-	NA	4.1 U	NA	6.3 U	2.0 J
Ethylbenzene	UG/KG	7.80E+05	NA	1.6 U	NA	2.5 U	2.4 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	16 U	NA	25 U	24 U
Methylene chloride	UG/KG	1.00E+06	NA	0.45 J	NA	2.5 U	0.91 J
Tetrachloroethene	UG/KG	3.00E+05	NA	1.6 U	NA	2.5 U	2.4 U
Toluene	UG/KG	1.00E+06	NA	4.1 U	NA	6.3 U	6 U
Trichloroethene	UG/KG	4.00E+05	NA	1.6 U	NA	2.5 U	2.4 U
Xylene (total)	UG/KG	1.00E+06	NA	1.6 U	NA	2.5 U	2.4 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	280 U	NA	300 U	NA	280 U
2-Methylnaphthalene	UG/KG	-	20.7 J	NA	120 U	NA	110 U
Acenaphthene	UG/KG	1.00E+06	110 U	NA	120 U	NA	110 U
Acenaphthylene	UG/KG	1.00E+06	110 U	NA	120 U	NA	110 U
Anthracene	UG/KG	1.00E+06	16.2 J	NA	26.7 J	NA	22.7 J
Benzo(a)anthracene	UG/KG	11000	65.6 J	NA	49.4 J	NA	61.1 J
Benzo(a)pyrene	UG/KG	1100	78.1 J	NA	44.5 J	NA	49.3 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07
Sample ID			DP-SB-07(0-2)	DP-SB-07(0-6)	DP-SB-07(2-12)	DP-SB-07(6-12)	DP-SB-07(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	70.9 J	NA	41.1 J	NA	53.8 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	59.9 J	NA	33.1 J	NA	37.7 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	60.2 J	NA	36.9 J	NA	38.8 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Butylbenzylphthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Carbazole	UG/KG	-	12.0 J	NA	120 U	NA	110 U
Chrysene	UG/KG	1.10E+05	67.1 J	NA	50.5 J	NA	62.2 J
Dibenz(a,h)anthracene	UG/KG	1100	110 U	NA	120 U	NA	110 U
Dibenzofuran	UG/KG	1.00E+06	110 U	NA	120 U	NA	110 U
Diethylphthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Dimethylphthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Di-n-butylphthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Di-n-octylphthalate	UG/KG	-	280 U	NA	300 U	NA	280 U
Fluoranthene	UG/KG	1.00E+06	104 J	NA	105 J	NA	112
Fluorene	UG/KG	1.00E+06	110 U	NA	120 U	NA	110 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	46.9 J	NA	120 U	NA	32.5 J
Naphthalene	UG/KG	1.00E+06	11.9 J	NA	120 U	NA	110 U
Phenanthrene	UG/KG	1.00E+06	69.4 J	NA	80.6 J	NA	68.4 J
Pyrene	UG/KG	1.00E+06	96.2 J	NA	81.7 J	NA	92.3 J
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7.9 U	NA	8 U	NA	7.8 U
4,4'-DDE	UG/KG	1.20E+05	7.9 U	NA	8 U	NA	7.8 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07	DP-SB-07
Sample ID			DP-SB-07(0-2)	DP-SB-07(0-6)	DP-SB-07(2-12)	DP-SB-07(6-12)	DP-SB-07(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.9 U	NA	8 U	NA	7.8 U
alpha-Chlordane	UG/KG	47000	7.9 U	NA	8 U	NA	7.8 U
Dieldrin	UG/KG	2800	7.9 U	NA	8 U	NA	7.8 U
gamma-Chlordane	UG/KG	-	7.9 U	NA	8 U	NA	7.8 U
Heptachlor epoxide	UG/KG	-	7.9 U	NA	8 U	NA	7.8 U
Herbicides							
2,4-D	UG/KG	-	23 U	NA	24 U	NA	23 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	4.7	NA	4.1	NA	3.7
Barium	MG/KG	10000	78.9	NA	146	NA	86.2
Cadmium	MG/KG	60	0.79	NA	1.0	NA	0.79
Chromium	MG/KG	6800	12.3	NA	14.1	NA	11.1
Lead	MG/KG	3900	67.9	NA	108	NA	74.8
Mercury	MG/KG	5.7	0.055	NA	0.052	NA	0.055
Selenium	MG/KG	6800	0.87 U	NA	0.92 U	NA	0.92 U
Silver	MG/KG	6800	0.17 J	NA	0.35 J	NA	0.16 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08
Sample ID			DP-SB-08(0-2)	DP-SB-08(0-6)	DP-SB-08(2-12)	DP-SB-08(6-12)	DP-SB-08(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	2.3 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.7 U	NA	1.8 U	2.3 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	0.94 J	NA	2.0	1.8 J
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.7 U	NA	0.42 J	2.3 U
Acetone	UG/KG	1.00E+06	NA	101 J	NA	58.1 J	101 J
Benzene	UG/KG	89000	NA	0.44	NA	0.45 U	0.57 U
Carbon disulfide	UG/KG	-	NA	1.6 J	NA	0.94 J	0.91 J
Ethylbenzene	UG/KG	7.80E+05	NA	1.7 U	NA	1.8 U	2.3 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	17 U	NA	18 U	23 U
Methylene chloride	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	2.3 U
Tetrachloroethene	UG/KG	3.00E+05	NA	1.7 U	NA	1.8 U	2.3 U
Toluene	UG/KG	1.00E+06	NA	4.3 U	NA	4.5 U	5.7 U
Trichloroethene	UG/KG	4.00E+05	NA	0.75 J	NA	1.5 J	1.6 J
Xylene (total)	UG/KG	1.00E+06	NA	1.7 U	NA	1.8 U	2.3 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	280 U	NA	280 U	NA	290 U
2-Methylnaphthalene	UG/KG	-	110 U	NA	16.2 J	NA	43.2 J
Acenaphthene	UG/KG	1.00E+06	15.9 J	NA	32.0 J	NA	265
Acenaphthylene	UG/KG	1.00E+06	110 U	NA	17.2 J	NA	51.6 J
Anthracene	UG/KG	1.00E+06	30.8 J	NA	71.7 J	NA	491
Benzo(a)anthracene	UG/KG	11000	125	NA	202	NA	1,120
Benzo(a)pyrene	UG/KG	1100	200	NA	274	NA	908

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08
Sample ID			DP-SB-08(0-2)	DP-SB-08(0-6)	DP-SB-08(2-12)	DP-SB-08(6-12)	DP-SB-08(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	200	NA	249	NA	762
Benzo(g,h,i)perylene	UG/KG	1.00E+06	80.6 J	NA	141	NA	449 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	96.3 J	NA	158	NA	718
bis(2-Ethylhexyl)phthalate	UG/KG	-	144 J	NA	146 J	NA	164 J
Butylbenzylphthalate	UG/KG	-	173 J	NA	280 U	NA	290 U
Carbazole	UG/KG	-	23.3 J	NA	34.8 J	NA	181
Chrysene	UG/KG	1.10E+05	127	NA	193	NA	1,020
Dibenz(a,h)anthracene	UG/KG	1100	110 U	NA	156	NA	254
Dibenzofuran	UG/KG	1.00E+06	110 U	NA	16.9 J	NA	103 J
Diethylphthalate	UG/KG	-	280 U	NA	280 U	NA	290 U
Dimethylphthalate	UG/KG	-	280 U	NA	280 U	NA	290 U
Di-n-butylphthalate	UG/KG	-	280 U	NA	280 U	NA	290 U
Di-n-octylphthalate	UG/KG	-	280 U	NA	280 U	NA	290 U
Fluoranthene	UG/KG	1.00E+06	245	NA	403	NA	2,210
Fluorene	UG/KG	1.00E+06	14.2 J	NA	36.6 J	NA	231
Indeno(1,2,3-cd)pyrene	UG/KG	11000	267	NA	303	NA	634
Naphthalene	UG/KG	1.00E+06	110 U	NA	18.6 J	NA	58.0 J
Phenanthrene	UG/KG	1.00E+06	141	NA	271	NA	1,720
Pyrene	UG/KG	1.00E+06	220	NA	349	NA	1,910
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	12.9 J	NA	38.5	NA	7.5 U
4,4'-DDE	UG/KG	1.20E+05	12.5	NA	46.6	NA	7.7 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08	DP-SB-08
Sample ID			DP-SB-08(0-2)	DP-SB-08(0-6)	DP-SB-08(2-12)	DP-SB-08(6-12)	DP-SB-08(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.4 U	NA	7.5 U	NA	7.5 U
alpha-Chlordane	UG/KG	47000	7.4 U	NA	7.0 J	NA	7.5 U
Dieldrin	UG/KG	2800	16.8 J	NA	22.6	NA	7.5 U
gamma-Chlordane	UG/KG	-	7.4 U	NA	R	NA	7.5 U
Heptachlor epoxide	UG/KG	-	7.4 U	NA	7.5 U	NA	7.5 U
Herbicides							
2,4-D	UG/KG	-	23 U	NA	22 U	NA	24 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	3.9	NA	4.4	NA	6.1
Barium	MG/KG	10000	44.1	NA	50.0	NA	46.2
Cadmium	MG/KG	60	0.17 J	NA	0.16 J	NA	0.27 J
Chromium	MG/KG	6800	8.9	NA	10.6	NA	14.4
Lead	MG/KG	3900	12.8	NA	13.5	NA	19.1
Mercury	MG/KG	5.7	0.037	NA	0.043	NA	0.094
Selenium	MG/KG	6800	0.86 U	NA	0.86 U	NA	0.89 U
Silver	MG/KG	6800	0.43 U	NA	0.43 U	NA	0.63

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09
Sample ID			DP-SB-09(0-2)	DP-SB-09(0-6)	DP-SB-09(2-12)	DP-SB-09(6-12)	DP-SB-09(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	0.49 J	NA	2.8 U	2.2 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	0.39 J	NA	2.8 U	2.2 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	0.36 J	NA	0.56 J	2.2 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.7 U	NA	2.8 U	2.2 U
Acetone	UG/KG	1.00E+06	NA	172 J	NA	150 J	89.3 J
Benzene	UG/KG	89000	NA	0.58	NA	0.85	0.51 J
Carbon disulfide	UG/KG	-	NA	1.3 J	NA	2.2 J	1.3 J
Ethylbenzene	UG/KG	7.80E+05	NA	1.7 U	NA	2.8 U	2.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	60.8	NA	28 U	22 U
Methylene chloride	UG/KG	1.00E+06	NA	1.7 U	NA	2.8 U	2.2 U
Tetrachloroethene	UG/KG	3.00E+05	NA	1.7 U	NA	2.8 U	2.2 U
Toluene	UG/KG	1.00E+06	NA	0.61 J	NA	0.90 J	0.44 J
Trichloroethene	UG/KG	4.00E+05	NA	1.4 J	NA	1.4 J	0.62 J
Xylene (total)	UG/KG	1.00E+06	NA	0.32 J	NA	2.8 U	2.2 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
2-Methylnaphthalene	UG/KG	-	471 J	NA	5,300	NA	193
Acenaphthene	UG/KG	1.00E+06	3,170	NA	32,300	NA	1,100
Acenaphthylene	UG/KG	1.00E+06	105 J	NA	962 J	NA	33.6 J
Anthracene	UG/KG	1.00E+06	3,060	NA	33,600	NA	1,210
Benzo(a)anthracene	UG/KG	11000	11,900	NA	126,000	NA	3,930
Benzo(a)pyrene	UG/KG	1100	9,720	NA	101,000	NA	3,150

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09
Sample ID			DP-SB-09(0-2)	DP-SB-09(0-6)	DP-SB-09(2-12)	DP-SB-09(6-12)	DP-SB-09(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	10,500	NA	117,000	NA	3,360
Benzo(g,h,i)perylene	UG/KG	1.00E+06	5,890	NA	66,800 J	NA	1,970 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	9,450	NA	91,600	NA	3,000
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Butylbenzylphthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Carbazole	UG/KG	-	3,300	NA	34,500	NA	1,200
Chrysene	UG/KG	1.10E+05	12,500	NA	133,000	NA	4,100
Dibenz(a,h)anthracene	UG/KG	1100	2,000	NA	22,000	NA	698
Dibenzofuran	UG/KG	1.00E+06	1,320	NA	13,500	NA	474
Diethylphthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Dimethylphthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Di-n-butylphthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Di-n-octylphthalate	UG/KG	-	1,400 U	NA	5,800 U	NA	280 U
Fluoranthene	UG/KG	1.00E+06	29,900	NA	311,000	NA	10,300
Fluorene	UG/KG	1.00E+06	1,960	NA	19,600	NA	739
Indeno(1,2,3-cd)pyrene	UG/KG	11000	6,800	NA	66,700	NA	1,980
Naphthalene	UG/KG	1.00E+06	470 J	NA	5,090	NA	192
Phenanthrene	UG/KG	1.00E+06	20,800	NA	216,000	NA	7,180
Pyrene	UG/KG	1.00E+06	23,200	NA	238,000	NA	7,590
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	9.8	NA	7.3 U	NA	13.8 J
4,4'-DDE	UG/KG	1.20E+05	13.4	NA	15.7 J	NA	21.5

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:52 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09	DP-SB-09
Sample ID			DP-SB-09(0-2)	DP-SB-09(0-6)	DP-SB-09(2-12)	DP-SB-09(6-12)	DP-SB-09(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.2 U	NA	7.3 U	NA	39.4
alpha-Chlordane	UG/KG	47000	7.2 U	NA	7.3 U	NA	7.5 U
Dieldrin	UG/KG	2800	12.5 J	NA	7.3 U	NA	7.1 J
gamma-Chlordane	UG/KG	-	7.2 U	NA	7.3 U	NA	7.5 U
Heptachlor epoxide	UG/KG	-	3.6 J	NA	7.3 U	NA	7.5 U
Herbicides							
2,4-D	UG/KG	-	22 U	NA	23 U	NA	23 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	4.9	NA	4.9	NA	5.7
Barium	MG/KG	10000	60.1	NA	64.8	NA	106
Cadmium	MG/KG	60	0.35	NA	0.37	NA	0.20 J
Chromium	MG/KG	6800	13.8	NA	15.0	NA	15.0
Lead	MG/KG	3900	17.7	NA	21.6	NA	11.1
Mercury	MG/KG	5.7	0.051	NA	0.053	NA	0.044
Selenium	MG/KG	6800	0.85 U	NA	0.88 U	NA	0.85 U
Silver	MG/KG	6800	0.43 U	NA	0.44 U	NA	0.43 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10
Sample ID			DP-SB-10(0-2)	DP-SB-10(0-6)	DP-SB-10(2-12)	DP-SB-10(6-12)	DP-SB-10(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	6.5 UJ	NA	0.97 J	2.5 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.6 J	NA	6.2	2.5 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	4.8 J	NA	7.0	2.5 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	6.5 U	NA	1.6 J	2.5 U
Acetone	UG/KG	1.00E+06	NA	353 J	NA	213 J	125 J
Benzene	UG/KG	89000	NA	2.8	NA	0.90	0.63 U
Carbon disulfide	UG/KG	-	NA	4.3 J	NA	6.4 UJ	6.3 U
Ethylbenzene	UG/KG	7.80E+05	NA	6.5 U	NA	0.81 J	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	65 U	NA	26 U	25 U
Methylene chloride	UG/KG	1.00E+06	NA	6.5 U	NA	1.8 J	0.71 J
Tetrachloroethene	UG/KG	3.00E+05	NA	6.5 U	NA	1.1 J	2.5 U
Toluene	UG/KG	1.00E+06	NA	2.9 J	NA	1.3 J	6.3 U
Trichloroethene	UG/KG	4.00E+05	NA	11.5	NA	17.0	2.5 U
Xylene (total)	UG/KG	1.00E+06	NA	1.2 J	NA	1.7 J	2.5 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	1,500 U	NA	323	NA	320 U
2-Methylnaphthalene	UG/KG	-	600 U	NA	37.7 J	NA	130 U
Acenaphthene	UG/KG	1.00E+06	600 U	NA	42.1 J	NA	130 U
Acenaphthylene	UG/KG	1.00E+06	600 U	NA	120 U	NA	130 U
Anthracene	UG/KG	1.00E+06	64.0 J	NA	100 J	NA	130 U
Benzo(a)anthracene	UG/KG	11000	208 J	NA	277	NA	35.0 J
Benzo(a)pyrene	UG/KG	1100	204 J	NA	268	NA	35.6 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10
Sample ID			DP-SB-10(0-2)	DP-SB-10(0-6)	DP-SB-10(2-12)	DP-SB-10(6-12)	DP-SB-10(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	179 J	NA	265	NA	32.5 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	162 J	NA	163	NA	24.4 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	166 J	NA	202	NA	28.9 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	1,500 U	NA	30.7 J	NA	320 U
Butylbenzylphthalate	UG/KG	-	1,500 U	NA	50.8 J	NA	320 U
Carbazole	UG/KG	-	600 U	NA	59.2 J	NA	130 U
Chrysene	UG/KG	1.10E+05	226 J	NA	298	NA	38.3 J
Dibenz(a,h)anthracene	UG/KG	1100	600 U	NA	57.1 J	NA	130 U
Dibenzofuran	UG/KG	1.00E+06	600 U	NA	31.8 J	NA	130 U
Diethylphthalate	UG/KG	-	1,500 U	NA	300 U	NA	320 U
Dimethylphthalate	UG/KG	-	1,500 U	NA	300 U	NA	320 U
Di-n-butylphthalate	UG/KG	-	1,500 U	NA	300 U	NA	320 U
Di-n-octylphthalate	UG/KG	-	1,500 U	NA	300 U	NA	320 U
Fluoranthene	UG/KG	1.00E+06	461 J	NA	627	NA	75.8 J
Fluorene	UG/KG	1.00E+06	600 U	NA	44.2 J	NA	130 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	600 U	NA	153	NA	130 U
Naphthalene	UG/KG	1.00E+06	600 U	NA	33.5 J	NA	130 U
Phenanthrene	UG/KG	1.00E+06	302 J	NA	442	NA	44.6 J
Pyrene	UG/KG	1.00E+06	367 J	NA	534	NA	55.1 J
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7.6 U	NA	8 U	NA	8.2 U
4,4'-DDE	UG/KG	1.20E+05	7.6 U	NA	8 U	NA	8.2 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10	DP-SB-10
Sample ID			DP-SB-10(0-2)	DP-SB-10(0-6)	DP-SB-10(2-12)	DP-SB-10(6-12)	DP-SB-10(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7.6 U	NA	8 U	NA	8.2 U
alpha-Chlordane	UG/KG	47000	7.6 U	NA	8 U	NA	8.2 U
Dieldrin	UG/KG	2800	7.6 U	NA	8 U	NA	8.2 U
gamma-Chlordane	UG/KG	-	7.6 U	NA	8 U	NA	8.2 U
Heptachlor epoxide	UG/KG	-	7.6 U	NA	8 U	NA	8.2 U
Herbicides							
2,4-D	UG/KG	-	24 U	NA	24 U	NA	26 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	NA	NA	NA	NA
Aroclor 1260	UG/KG	-	NA	NA	NA	NA	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	NA	NA	NA	NA
Metals							
Arsenic	MG/KG	16	4.6	NA	6.5	NA	3.4
Barium	MG/KG	10000	60.4	NA	70.9	NA	75.7
Cadmium	MG/KG	60	0.41	NA	0.69	NA	0.19 J
Chromium	MG/KG	6800	13.9	NA	17.5	NA	14.9
Lead	MG/KG	3900	20.7	NA	24.2	NA	9.4
Mercury	MG/KG	5.7	0.13	NA	0.13	NA	0.074
Selenium	MG/KG	6800	0.92 U	NA	0.9 U	NA	0.96 U
Silver	MG/KG	6800	0.46 U	NA	0.45 U	NA	0.16 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-11	DP-SB-11	DP-SB-11	DP-SB-11
Sample ID			DP-SB-10(12-24)DUP	DP-SB-11(0-2)	DP-SB-11(0-6)	DP-SB-11(2-12)	DP-SB-11(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2.3 U	NA	2.1 UJ	NA	2.1 U
1,1-Dichloroethane	UG/KG	4.80E+05	2.3 U	NA	2.1 U	NA	2.1 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2.3 U	NA	2.1 U	NA	2.1 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2.3 U	NA	2.1 U	NA	2.1 U
Acetone	UG/KG	1.00E+06	121 J	NA	211 J	NA	78.1 J
Benzene	UG/KG	89000	0.58 U	NA	0.52 U	NA	0.74
Carbon disulfide	UG/KG	-	5.8 U	NA	2.1 J	NA	3.9 J
Ethylbenzene	UG/KG	7.80E+05	2.3 U	NA	2.1 U	NA	2.1 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	12 U	NA	21 U	NA	21 U
Methylene chloride	UG/KG	1.00E+06	2.3 U	NA	2.1 U	NA	0.69 J
Tetrachloroethene	UG/KG	3.00E+05	2.3 U	NA	2.1 U	NA	2.1 U
Toluene	UG/KG	1.00E+06	5.8 U	NA	5.2 U	NA	5.2 U
Trichloroethene	UG/KG	4.00E+05	2.3 U	NA	2.1 U	NA	2.1 U
Xylene (total)	UG/KG	1.00E+06	2.3 U	NA	2.1 U	NA	2.1 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	320 U	280 U	NA	270 U	NA
2-Methylnaphthalene	UG/KG	-	130 U	110 U	NA	110 U	NA
Acenaphthene	UG/KG	1.00E+06	130 U	110 U	NA	110 U	NA
Acenaphthylene	UG/KG	1.00E+06	130 U	110 U	NA	110 U	NA
Anthracene	UG/KG	1.00E+06	130 U	30.1 J	NA	20.9 J	NA
Benzo(a)anthracene	UG/KG	11000	130 U	190	NA	174	NA
Benzo(a)pyrene	UG/KG	1100	130 U	248	NA	219	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-11	DP-SB-11	DP-SB-11	DP-SB-11
Sample ID			DP-SB-10(12-24)DUP	DP-SB-11(0-2)	DP-SB-11(0-6)	DP-SB-11(2-12)	DP-SB-11(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	130 U	291	NA	227	NA
Benzo(g,h,i)perylene	UG/KG	1.00E+06	130 U	272	NA	197	NA
Benzo(k)fluoranthene	UG/KG	1.10E+05	130 U	233	NA	168	NA
bis(2-Ethylhexyl)phthalate	UG/KG	-	320 U	280 U	NA	270 U	NA
Butylbenzylphthalate	UG/KG	-	320 U	56.4 J	NA	270 U	NA
Carbazole	UG/KG	-	130 U	24.8 J	NA	15.6 J	NA
Chrysene	UG/KG	1.10E+05	16.2 J	254	NA	204	NA
Dibenz(a,h)anthracene	UG/KG	1100	130 U	66.5 J	NA	58.5 J	NA
Dibenzofuran	UG/KG	1.00E+06	130 U	110 U	NA	110 U	NA
Diethylphthalate	UG/KG	-	320 U	280 U	NA	270 U	NA
Dimethylphthalate	UG/KG	-	320 U	280 U	NA	270 U	NA
Di-n-butylphthalate	UG/KG	-	320 U	280 U	NA	270 U	NA
Di-n-octylphthalate	UG/KG	-	320 U	280 U	NA	270 U	NA
Fluoranthene	UG/KG	1.00E+06	28.5 J	457	NA	256	NA
Fluorene	UG/KG	1.00E+06	130 U	110 U	NA	110 U	NA
Indeno(1,2,3-cd)pyrene	UG/KG	11000	130 U	217	NA	161	NA
Naphthalene	UG/KG	1.00E+06	130 U	110 U	NA	110 U	NA
Phenanthrene	UG/KG	1.00E+06	130 U	161	NA	90.8 J	NA
Pyrene	UG/KG	1.00E+06	22.6 J	343	NA	203	NA
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	8.6 U	5.7 U	NA	5.5 U	NA
4,4'-DDE	UG/KG	1.20E+05	8.6 U	5.7 U	NA	5.5 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-10	DP-SB-11	DP-SB-11	DP-SB-11	DP-SB-11
Sample ID			DP-SB-10(12-24)DUP	DP-SB-11(0-2)	DP-SB-11(0-6)	DP-SB-11(2-12)	DP-SB-11(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)				
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	8.6 U	5.7 U	NA	3.1 J	NA
alpha-Chlordane	UG/KG	47000	8.6 U	5.7 U	NA	5.5 U	NA
Dieldrin	UG/KG	2800	8.6 U	5.7 U	NA	5.5 U	NA
gamma-Chlordane	UG/KG	-	8.6 U	5.7 U	NA	5.5 U	NA
Heptachlor epoxide	UG/KG	-	8.6 U	5.7 U	NA	5.5 U	NA
Herbicides							
2,4-D	UG/KG	-	26 U	22 U	NA	22 U	NA
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	29 U	NA	27 U	NA
Aroclor 1260	UG/KG	-	NA	25.6 J	NA	40.7	NA
Total Polychlorinated Biphenyls	UG/KG	25000	NA	25.6 J	NA	40.7	NA
Metals							
Arsenic	MG/KG	16	3.2	2.1	NA	2.4	NA
Barium	MG/KG	10000	75.4	29.2	NA	34.6	NA
Cadmium	MG/KG	60	0.22 J	0.10 J	NA	0.15 J	NA
Chromium	MG/KG	6800	14.4	14.0	NA	9.3	NA
Lead	MG/KG	3900	10.3	13.3	NA	14.7	NA
Mercury	MG/KG	5.7	0.084	0.013 J	NA	0.027 J	NA
Selenium	MG/KG	6800	1 U	0.63 J	NA	0.45 J	NA
Silver	MG/KG	6800	0.14 J	0.43 U	NA	0.41 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

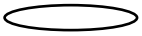
Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-11	DP-SB-12	DP-SB-12	DP-SB-12	DP-SB-12
Sample ID			DP-SB-11(12-24)	DP-SB-12(0-2)	DP-SB-12(0-6)	DP-SB-12(2-12)	DP-SB-12(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2 U	NA	2.1 U	NA	2 U
1,1-Dichloroethane	UG/KG	4.80E+05	2 U	NA	2.1 U	NA	2 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2 U	NA	2.1 U	NA	2 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2 U	NA	2.1 U	NA	2 U
Acetone	UG/KG	1.00E+06	78.9 J	NA	153 J	NA	166 J
Benzene	UG/KG	89000	0.78	NA	0.96	NA	0.65
Carbon disulfide	UG/KG	-	5.0	NA	2.8 J	NA	4.9 U
Ethylbenzene	UG/KG	7.80E+05	2 U	NA	2.1 U	NA	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	20 U	NA	21 U	NA	20 U
Methylene chloride	UG/KG	1.00E+06	0.54 J	NA	0.64 J	NA	0.52 J
Tetrachloroethene	UG/KG	3.00E+05	2 U	NA	2.1 U	NA	2 U
Toluene	UG/KG	1.00E+06	5 U	NA	5.3 U	NA	4.9 U
Trichloroethene	UG/KG	4.00E+05	0.60 J	NA	2.1 U	NA	0.36 J
Xylene (total)	UG/KG	1.00E+06	2 U	NA	2.1 U	NA	2 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	280 U	280 U	NA	270 U	NA
2-Methylnaphthalene	UG/KG	-	110 U	110 U	NA	110 U	NA
Acenaphthene	UG/KG	1.00E+06	110 U	110 U	NA	110 U	NA
Acenaphthylene	UG/KG	1.00E+06	110 U	110 U	NA	110 U	NA
Anthracene	UG/KG	1.00E+06	110 U	33.7 J	NA	13.3 J	NA
Benzo(a)anthracene	UG/KG	11000	31.2 J	131	NA	81.1 J	NA
Benzo(a)pyrene	UG/KG	1100	36.0 J	145	NA	94.4 J	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-11	DP-SB-12	DP-SB-12	DP-SB-12	DP-SB-12
Sample ID			DP-SB-11(12-24)	DP-SB-12(0-2)	DP-SB-12(0-6)	DP-SB-12(2-12)	DP-SB-12(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	43.7 J	158	NA	117	NA
Benzo(g,h,i)perylene	UG/KG	1.00E+06	36.1 J	120	NA	88.7 J	NA
Benzo(k)fluoranthene	UG/KG	1.10E+05	27.9 J	119	NA	68.8 J	NA
bis(2-Ethylhexyl)phthalate	UG/KG	-	280 U	280 U	NA	26.7 J	NA
Butylbenzylphthalate	UG/KG	-	280 U	280 U	NA	44.5 J	NA
Carbazole	UG/KG	-	110 U	19.3 J	NA	110 U	NA
Chrysene	UG/KG	1.10E+05	37.0 J	147	NA	102 J	NA
Dibenz(a,h)anthracene	UG/KG	1100	110 U	35.4 J	NA	110 U	NA
Dibenzofuran	UG/KG	1.00E+06	110 U	110 U	NA	110 U	NA
Diethylphthalate	UG/KG	-	280 U	280 U	NA	270 U	NA
Dimethylphthalate	UG/KG	-	280 U	280 U	NA	270 U	NA
Di-n-butylphthalate	UG/KG	-	280 U	280 U	NA	270 U	NA
Di-n-octylphthalate	UG/KG	-	280 U	280 U	NA	270 U	NA
Fluoranthene	UG/KG	1.00E+06	55.3 J	282	NA	154	NA
Fluorene	UG/KG	1.00E+06	110 U	110 U	NA	110 U	NA
Indeno(1,2,3-cd)pyrene	UG/KG	11000	32.5 J	101 J	NA	72.2 J	NA
Naphthalene	UG/KG	1.00E+06	110 U	110 U	NA	110 U	NA
Phenanthrene	UG/KG	1.00E+06	24.8 J	131	NA	63.8 J	NA
Pyrene	UG/KG	1.00E+06	47.1 J	210	NA	130	NA
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	5.7 U	5.6 U	NA	5.4 U	NA
4,4'-DDE	UG/KG	1.20E+05	5.7 U	5.6 U	NA	5.4 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-11	DP-SB-12	DP-SB-12	DP-SB-12	DP-SB-12
Sample ID			DP-SB-11(12-24)	DP-SB-12(0-2)	DP-SB-12(0-6)	DP-SB-12(2-12)	DP-SB-12(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	5.7 U	5.6 U	NA	5.4 U	NA
alpha-Chlordane	UG/KG	47000	5.7 U	5.6 U	NA	5.4 U	NA
Dieldrin	UG/KG	2800	5.7 U	5.6 U	NA	5.4 U	NA
gamma-Chlordane	UG/KG	-	5.7 U	5.6 U	NA	5.4 U	NA
Heptachlor epoxide	UG/KG	-	5.7 U	5.6 U	NA	5.4 U	NA
Herbicides							
2,4-D	UG/KG	-	23 U	22 U	NA	22 U	NA
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	38 U	28 U	NA	27 U	NA
Aroclor 1260	UG/KG	-	26.7 J	23.7 J	NA	25.9 J	NA
Total Polychlorinated Biphenyls	UG/KG	25000	26.7 J	23.7 J	NA	25.9 J	NA
Metals							
Arsenic	MG/KG	16	4.3	2.5	NA	2.3	NA
Barium	MG/KG	10000	70.0	24.4	NA	23.6	NA
Cadmium	MG/KG	60	0.13 J	0.11 J	NA	0.11 J	NA
Chromium	MG/KG	6800	12.6	7.4	NA	8.3	NA
Lead	MG/KG	3900	9.7	13.5	NA	16.4	NA
Mercury	MG/KG	5.7	0.033 J	0.016 J	NA	0.016 J	NA
Selenium	MG/KG	6800	0.91 U	0.88 U	NA	0.88 U	NA
Silver	MG/KG	6800	0.46 U	0.44 U	NA	0.44 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-12	DP-SB-13	DP-SB-13	DP-SB-13	DP-SB-13
Sample ID			DP-SB-12(12-24)	DP-SB-13(0-2)	DP-SB-13(0-6)	DP-SB-13(2-12)	DP-SB-13(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2 U	NA	2 U	NA	2.2 U
1,1-Dichloroethane	UG/KG	4.80E+05	2 U	NA	2 U	NA	2.2 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2 U	NA	2 U	NA	2.2 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2 U	NA	2 U	NA	2.2 U
Acetone	UG/KG	1.00E+06	63.4 J	NA	267 J	NA	103 J
Benzene	UG/KG	89000	0.49 U	NA	0.61	NA	0.56
Carbon disulfide	UG/KG	-	4.9 U	NA	1.0 J	NA	1.1 J
Ethylbenzene	UG/KG	7.80E+05	2 U	NA	2 U	NA	2.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	20 U	NA	20 U	NA	22 U
Methylene chloride	UG/KG	1.00E+06	0.59 J	NA	2 U	NA	2.2 U
Tetrachloroethene	UG/KG	3.00E+05	2 U	NA	2 U	NA	2.2 U
Toluene	UG/KG	1.00E+06	4.9 U	NA	0.61 J	NA	0.55 J
Trichloroethene	UG/KG	4.00E+05	2 U	NA	2 U	NA	2.2 U
Xylene (total)	UG/KG	1.00E+06	2 U	NA	2 U	NA	2.2 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	310 U	330 U	NA	290 U	NA
2-Methylnaphthalene	UG/KG	-	130 U	130 U	NA	120 U	NA
Acenaphthene	UG/KG	1.00E+06	130 U	44.2 J	NA	57.8 J	NA
Acenaphthylene	UG/KG	1.00E+06	130 U	130 U	NA	17.9 J	NA
Anthracene	UG/KG	1.00E+06	130 U	59.1 J	NA	78.2 J	NA
Benzo(a)anthracene	UG/KG	11000	130 U	161	NA	285	NA
Benzo(a)pyrene	UG/KG	1100	130 U	241	NA	317	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:53 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-12	DP-SB-13	DP-SB-13	DP-SB-13	DP-SB-13
Sample ID			DP-SB-12(12-24)	DP-SB-13(0-2)	DP-SB-13(0-6)	DP-SB-13(2-12)	DP-SB-13(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	130 U	246	NA	334	NA
Benzo(g,h,i)perylene	UG/KG	1.00E+06	130 U	104 J	NA	185	NA
Benzo(k)fluoranthene	UG/KG	1.10E+05	130 U	121 J	NA	212	NA
bis(2-Ethylhexyl)phthalate	UG/KG	-	310 U	330 U	NA	290 U	NA
Butylbenzylphthalate	UG/KG	-	310 U	330 U	NA	17.5 J	NA
Carbazole	UG/KG	-	130 U	53.0 J	NA	67.4 J	NA
Chrysene	UG/KG	1.10E+05	130 U	166	NA	286	NA
Dibenz(a,h)anthracene	UG/KG	1100	130 U	183	NA	181	NA
Dibenzofuran	UG/KG	1.00E+06	130 U	17.8 J	NA	21.8 J	NA
Diethylphthalate	UG/KG	-	310 U	330 U	NA	290 U	NA
Dimethylphthalate	UG/KG	-	310 U	330 U	NA	290 U	NA
Di-n-butylphthalate	UG/KG	-	310 U	330 U	NA	290 U	NA
Di-n-octylphthalate	UG/KG	-	310 U	330 U	NA	290 U	NA
Fluoranthene	UG/KG	1.00E+06	130 U	407	NA	689	NA
Fluorene	UG/KG	1.00E+06	130 U	31.8 J	NA	41.9 J	NA
Indeno(1,2,3-cd)pyrene	UG/KG	11000	130 U	328	NA	357	NA
Naphthalene	UG/KG	1.00E+06	130 U	16.5 J	NA	120 U	NA
Phenanthrene	UG/KG	1.00E+06	130 U	290	NA	454	NA
Pyrene	UG/KG	1.00E+06	130 U	326	NA	551	NA
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	6.2 U	6.8 U	NA	5.8 U	NA
4,4'-DDE	UG/KG	1.20E+05	6.2 U	6.8 U	NA	5.8 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-12	DP-SB-13	DP-SB-13	DP-SB-13	DP-SB-13
Sample ID			DP-SB-12(12-24)	DP-SB-13(0-2)	DP-SB-13(0-6)	DP-SB-13(2-12)	DP-SB-13(6-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0
Date Sampled			04/06/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	6.2 U	4.1 J	NA	5.8 U	NA
alpha-Chlordane	UG/KG	47000	6.2 U	6.8 U	NA	5.8 U	NA
Dieldrin	UG/KG	2800	6.2 U	6.8 U	NA	5.8 U	NA
gamma-Chlordane	UG/KG	-	6.2 U	6.8 U	NA	5.8 U	NA
Heptachlor epoxide	UG/KG	-	6.2 U	6.8 U	NA	5.8 U	NA
Herbicides							
2,4-D	UG/KG	-	25 U	27 U	NA	23 U	NA
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	31 U	34 U	NA	29 U	NA
Aroclor 1260	UG/KG	-	31 U	22.8 J	NA	29 U	NA
Total Polychlorinated Biphenyls	UG/KG	25000	31 U	22.8 J	NA	29 U	NA
Metals							
Arsenic	MG/KG	16	5.9	4.7	NA	4.5	NA
Barium	MG/KG	10000	104	73.6	NA	103	NA
Cadmium	MG/KG	60	0.45	0.48	NA	0.53	NA
Chromium	MG/KG	6800	17.5	13.9	NA	11.0	NA
Lead	MG/KG	3900	11.2	14.2	NA	10.6	NA
Mercury	MG/KG	5.7	0.054	0.049	NA	0.042	NA
Selenium	MG/KG	6800	0.96 U	1 U	NA	0.88 U	NA
Silver	MG/KG	6800	0.48 U	0.52 U	NA	0.44 U	NA

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-13	DP-SB-13	DP-SB-14	DP-SB-14	DP-SB-14
Sample ID			DP-SB-13(12-24)	DP-SB-13(12-24)DUP	DP-SB-14(0-2)	DP-SB-14(0-6)	DP-SB-14(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/07/16	04/07/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2.7 U	2.6 U	NA	2.2 U	NA
1,1-Dichloroethane	UG/KG	4.80E+05	2.7 U	2.6 U	NA	2.2 U	NA
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2.7 U	2.6 U	NA	0.43 J	NA
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2.7 U	2.6 U	NA	2.2 U	NA
Acetone	UG/KG	1.00E+06	145 J	117 J	NA	253 J	NA
Benzene	UG/KG	89000	0.75	0.66 U	NA	0.74	NA
Carbon disulfide	UG/KG	-	2.2 J	0.69 J	NA	1.5 J	NA
Ethylbenzene	UG/KG	7.80E+05	2.7 U	2.6 U	NA	2.2 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	27 U	26 U	NA	22 U	NA
Methylene chloride	UG/KG	1.00E+06	2.7 U	2.6 U	NA	0.56 J	NA
Tetrachloroethene	UG/KG	3.00E+05	2.7 U	2.6 U	NA	2.2 U	NA
Toluene	UG/KG	1.00E+06	0.55 J	6.6 U	NA	5.4 U	NA
Trichloroethene	UG/KG	4.00E+05	2.7 U	2.6 U	NA	0.93 J	NA
Xylene (total)	UG/KG	1.00E+06	2.7 U	2.6 U	NA	2.2 U	NA
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
2-Methylnaphthalene	UG/KG	-	120 U	120 U	650 U	NA	140 U
Acenaphthene	UG/KG	1.00E+06	120 U	120 U	337 J	NA	34.0 J
Acenaphthylene	UG/KG	1.00E+06	120 U	120 U	650 U	NA	140 U
Anthracene	UG/KG	1.00E+06	120 U	120 U	599 J	NA	75.4 J
Benzo(a)anthracene	UG/KG	11000	19.7 J	20.7 J	1,940	NA	321
Benzo(a)pyrene	UG/KG	1100	120	118 J	1,820	NA	335

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-13	DP-SB-13	DP-SB-14	DP-SB-14	DP-SB-14
Sample ID			DP-SB-13(12-24)	DP-SB-13(12-24)DUP	DP-SB-14(0-2)	DP-SB-14(0-6)	DP-SB-14(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/07/16	04/07/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	122	122	1,990	NA	333
Benzo(g,h,i)perylene	UG/KG	1.00E+06	120 U	120 U	1,280	NA	267
Benzo(k)fluoranthene	UG/KG	1.10E+05	17.0 J	18.7 J	1,480	NA	308
bis(2-Ethylhexyl)phthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Butylbenzylphthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Carbazole	UG/KG	-	120 U	120 U	478 J	NA	61.0 J
Chrysene	UG/KG	1.10E+05	23.5 J	24.6 J	2,220	NA	379
Dibenz(a,h)anthracene	UG/KG	1100	120 U	120 U	426 J	NA	82.6 J
Dibenzofuran	UG/KG	1.00E+06	120 U	120 U	217 J	NA	23.2 J
Diethylphthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Dimethylphthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Di-n-butylphthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Di-n-octylphthalate	UG/KG	-	290 U	290 U	1,600 U	NA	340 U
Fluoranthene	UG/KG	1.00E+06	47.0 J	49.2 J	5,040	NA	815
Fluorene	UG/KG	1.00E+06	120 U	120 U	292 J	NA	31.7 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000	218	217	1,140	NA	232
Naphthalene	UG/KG	1.00E+06	120 U	120 U	155 J	NA	19.6 J
Phenanthrene	UG/KG	1.00E+06	25.8 J	29.9 J	3,770	NA	510
Pyrene	UG/KG	1.00E+06	39.5 J	40.5 J	3,780	NA	670
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	5.7 U	5.9 U	6.3 U	NA	6.5 U
4,4'-DDE	UG/KG	1.20E+05	5.7 U	5.9 U	6.3 U	NA	6.5 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-13	DP-SB-13	DP-SB-14	DP-SB-14	DP-SB-14
Sample ID			DP-SB-13(12-24)	DP-SB-13(12-24)DUP	DP-SB-14(0-2)	DP-SB-14(0-6)	DP-SB-14(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/07/16	04/07/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	5.7 U	5.9 U	6.3 U	NA	6.5 U
alpha-Chlordane	UG/KG	47000	5.7 U	5.9 U	6.3 U	NA	6.5 U
Dieldrin	UG/KG	2800	5.7 U	5.9 U	6.3 U	NA	6.5 U
gamma-Chlordane	UG/KG	-	5.7 U	5.9 U	6.3 U	NA	6.5 U
Heptachlor epoxide	UG/KG	-	5.7 U	5.9 U	6.3 U	NA	6.5 U
Herbicides							
2,4-D	UG/KG	-	23 U	23 U	26 U	NA	27 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	28 U	30 U	32 U	NA	33 U
Aroclor 1260	UG/KG	-	28 U	30 U	207	NA	47.8
Total Polychlorinated Biphenyls	UG/KG	25000	28 U	30 U	207	NA	47.8
Metals							
Arsenic	MG/KG	16	4.7	4.5	4.1	NA	4.6
Barium	MG/KG	10000	69.3	61.4	80.8	NA	86.4
Cadmium	MG/KG	60	0.18 J	0.15 J	0.89	NA	1.6
Chromium	MG/KG	6800	13.2	14.9	13.7	NA	18.5
Lead	MG/KG	3900	7.3	7.0	24.1	NA	31.3
Mercury	MG/KG	5.7	0.028 J	0.033 J	0.099	NA	0.094
Selenium	MG/KG	6800	0.93 U	0.9 U	0.96 U	NA	1 U
Silver	MG/KG	6800	0.47 U	0.45 U	0.48 U	NA	0.27 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-14	DP-SB-14	DP-SB-15	DP-SB-15	DP-SB-15
Sample ID			DP-SB-14(6-12)	DP-SB-14(12-24)	DP-SB-15(0-2)	DP-SB-15(0-6)	DP-SB-15(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	3.2 U	2.7 U	NA	3.9 UJ	NA
1,1-Dichloroethane	UG/KG	4.80E+05	3.2 U	2.7 U	NA	3.9 U	NA
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	3.2 U	2.7 U	NA	3.9 U	NA
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	3.2 U	2.7 U	NA	3.9 U	NA
Acetone	UG/KG	1.00E+06	114 J	104 J	NA	788 J	NA
Benzene	UG/KG	89000	0.8 U	0.67 U	NA	0.77 J	NA
Carbon disulfide	UG/KG	-	8 U	6.7 U	NA	3.8 J	NA
Ethylbenzene	UG/KG	7.80E+05	3.2 U	2.7 U	NA	3.9 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	32 U	27 U	NA	39 U	NA
Methylene chloride	UG/KG	1.00E+06	3.2 U	0.58 J	NA	3.9 U	NA
Tetrachloroethene	UG/KG	3.00E+05	3.2 U	2.7 U	NA	3.9 U	NA
Toluene	UG/KG	1.00E+06	8 U	6.7 U	NA	9.8 U	NA
Trichloroethene	UG/KG	4.00E+05	3.2 U	2.7 U	NA	3.9 U	NA
Xylene (total)	UG/KG	1.00E+06	3.2 U	2.7 U	NA	3.9 U	NA
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	NA	300 U	2,700 U	NA	6,100 U
2-Methylnaphthalene	UG/KG	-	NA	120 U	1,100 U	NA	2,500 U
Acenaphthene	UG/KG	1.00E+06	NA	120 U	1,100 U	NA	7,020
Acenaphthylene	UG/KG	1.00E+06	NA	120 U	1,100 U	NA	2,500 U
Anthracene	UG/KG	1.00E+06	NA	120 U	286 J	NA	19,900
Benzo(a)anthracene	UG/KG	11000	NA	17.2 J	1,200	NA	79,600
Benzo(a)pyrene	UG/KG	1100	NA	15.1 J	1,100	NA	65,100

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-14	DP-SB-14	DP-SB-15	DP-SB-15	DP-SB-15
Sample ID			DP-SB-14(6-12)	DP-SB-14(12-24)	DP-SB-15(0-2)	DP-SB-15(0-6)	DP-SB-15(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	NA	17.5 J	1,070 J	NA	66,100
Benzo(g,h,i)perylene	UG/KG	1.00E+06	NA	120 U	713 J	NA	28,400
Benzo(k)fluoranthene	UG/KG	1.10E+05	NA	120 U	945 J	NA	45,500
bis(2-Ethylhexyl)phthalate	UG/KG	-	NA	300 U	263 J	NA	6,100 U
Butylbenzylphthalate	UG/KG	-	NA	300 U	2,700 U	NA	6,100 U
Carbazole	UG/KG	-	NA	120 U	232 J	NA	3,490
Chrysene	UG/KG	1.10E+05	NA	17.6 J	1,360	NA	82,100
Dibenz(a,h)anthracene	UG/KG	1100	NA	120 U	200 J	NA	13,300
Dibenzofuran	UG/KG	1.00E+06	NA	120 U	1,100 U	NA	3,410
Diethylphthalate	UG/KG	-	NA	300 U	2,700 U	NA	6,100 U
Dimethylphthalate	UG/KG	-	NA	300 U	2,700 U	NA	6,100 U
Di-n-butylphthalate	UG/KG	-	NA	300 U	287 J	NA	6,100 U
Di-n-octylphthalate	UG/KG	-	NA	300 U	2,700 U	NA	6,100 U
Fluoranthene	UG/KG	1.00E+06	NA	31.9 J	2,400	NA	133,000
Fluorene	UG/KG	1.00E+06	NA	120 U	1,100 U	NA	7,150
Indeno(1,2,3-cd)pyrene	UG/KG	11000	NA	120 U	628 J	NA	27,300
Naphthalene	UG/KG	1.00E+06	NA	120 U	1,100 U	NA	2,500 U
Phenanthrene	UG/KG	1.00E+06	NA	120 U	1,350	NA	67,600
Pyrene	UG/KG	1.00E+06	NA	22.6 J	1,930	NA	110,000
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	NA	5.8 U	11 U	NA	6 U
4,4'-DDE	UG/KG	1.20E+05	NA	5.8 U	11 U	NA	6 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-14	DP-SB-14	DP-SB-15	DP-SB-15	DP-SB-15
Sample ID			DP-SB-14(6-12)	DP-SB-14(12-24)	DP-SB-15(0-2)	DP-SB-15(0-6)	DP-SB-15(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/06/16	04/06/16	04/06/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	NA	5.8 U	11 U	NA	6 U
alpha-Chlordane	UG/KG	47000	NA	5.8 U	11 U	NA	6 U
Dieldrin	UG/KG	2800	NA	5.8 U	11 U	NA	6 U
gamma-Chlordane	UG/KG	-	NA	5.8 U	11 U	NA	6 U
Heptachlor epoxide	UG/KG	-	NA	5.8 U	11 U	NA	6 U
Herbicides							
2,4-D	UG/KG	-	NA	24 U	43 U	NA	25 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	29 U	69 U	NA	30 U
Aroclor 1260	UG/KG	-	NA	29 U	247	NA	60.7
Total Polychlorinated Biphenyls	UG/KG	25000	NA	29 U	247	NA	60.7
Metals							
Arsenic	MG/KG	16	NA	4.5	5.4	NA	6.3
Barium	MG/KG	10000	NA	66.2	97.6	NA	72.0
Cadmium	MG/KG	60	NA	0.28 J	2.8	NA	3.4
Chromium	MG/KG	6800	NA	18.9	32.7	NA	28.4
Lead	MG/KG	3900	NA	8.3	112	NA	99.8
Mercury	MG/KG	5.7	NA	0.068	0.16	NA	0.12
Selenium	MG/KG	6800	NA	0.89 U	1.5 U	NA	0.87 U
Silver	MG/KG	6800	NA	0.26 J	0.35 J	NA	0.095 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-15	DP-SB-15	DP-SB-16	DP-SB-16	DP-SB-16
Sample ID			DP-SB-15(6-12)	DP-SB-15(12-24)	DP-SB-16(0-2)	DP-SB-16(0-6)	DP-SB-16(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	3.3 U	3 U	NA	2.3 U	NA
1,1-Dichloroethane	UG/KG	4.80E+05	3.3 U	3 U	NA	2.3 U	NA
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	3.3 U	3 U	NA	2.3 U	NA
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	3.3 U	3 U	NA	2.3 U	NA
Acetone	UG/KG	1.00E+06	17 UJ	15 UJ	NA	68.8 J	NA
Benzene	UG/KG	89000	0.83 U	0.74 U	NA	0.69	NA
Carbon disulfide	UG/KG	-	8.3 U	7.4 U	NA	2.3 J	NA
Ethylbenzene	UG/KG	7.80E+05	3.3 U	3 U	NA	2.3 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	17 U	15 U	NA	12 U	NA
Methylene chloride	UG/KG	1.00E+06	3.3 U	3 U	NA	2.3 U	NA
Tetrachloroethene	UG/KG	3.00E+05	3.3 U	3 U	NA	2.3 U	NA
Toluene	UG/KG	1.00E+06	8.3 U	7.4 U	NA	5.8 U	NA
Trichloroethene	UG/KG	4.00E+05	3.3 U	3 U	NA	2.3 U	NA
Xylene (total)	UG/KG	1.00E+06	3.3 U	3 U	NA	2.3 U	NA
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	NA	330 U	5,600 U	NA	5,300 U
2-Methylnaphthalene	UG/KG	-	NA	130 U	2,200 U	NA	2,100 U
Acenaphthene	UG/KG	1.00E+06	NA	130 U	2,200 U	NA	2,100 U
Acenaphthylene	UG/KG	1.00E+06	NA	130 U	2,200 U	NA	2,100 U
Anthracene	UG/KG	1.00E+06	NA	15.8 J	278 J	NA	2,100 U
Benzo(a)anthracene	UG/KG	11000	NA	41.4 J	2,930	NA	252 J
Benzo(a)pyrene	UG/KG	1100	NA	46.4 J	4,020	NA	346 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:54 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-15	DP-SB-15	DP-SB-16	DP-SB-16	DP-SB-16
Sample ID			DP-SB-15(6-12)	DP-SB-15(12-24)	DP-SB-16(0-2)	DP-SB-16(0-6)	DP-SB-16(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	NA	54.7 J	4,390	NA	339 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	NA	30.0 J	4,150 U	NA	2,100 U
Benzo(k)fluoranthene	UG/KG	1.10E+05	NA	28.9 J	3,350	NA	2,100 U
bis(2-Ethylhexyl)phthalate	UG/KG	-	NA	130 J	5,600 U	NA	5,300 U
Butylbenzylphthalate	UG/KG	-	NA	330 U	5,600 U	NA	5,300 U
Carbazole	UG/KG	-	NA	130 U	441 J	NA	2,100 U
Chrysene	UG/KG	1.10E+05	NA	56.4 J	3,860	NA	280 J
Dibenz(a,h)anthracene	UG/KG	1100	NA	130 U	2,200 U	NA	2,100 U
Dibenzofuran	UG/KG	1.00E+06	NA	130 U	2,200 U	NA	2,100 U
Diethylphthalate	UG/KG	-	NA	330 U	2,300 J	NA	5,300 U
Dimethylphthalate	UG/KG	-	NA	330 U	5,600 U	NA	5,300 U
Di-n-butylphthalate	UG/KG	-	NA	330 U	5,600 U	NA	5,300 U
Di-n-octylphthalate	UG/KG	-	NA	330 U	5,600 U	NA	5,300 U
Fluoranthene	UG/KG	1.00E+06	NA	96.8 J	7,340	NA	494 J
Fluorene	UG/KG	1.00E+06	NA	130 U	2,200 U	NA	2,100 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	NA	130 U	3,340 U	NA	2,100 U
Naphthalene	UG/KG	1.00E+06	NA	130 U	2,200 U	NA	2,100 U
Phenanthrene	UG/KG	1.00E+06	NA	53.7 J	2,430	NA	2,100 U
Pyrene	UG/KG	1.00E+06	NA	77.4 J	5,630	NA	409 J
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	NA	6.7 U	5.6 U	NA	5.2 U
4,4'-DDE	UG/KG	1.20E+05	NA	6.7 U	5.6 UJ	NA	5.2 UJ

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-15	DP-SB-15	DP-SB-16	DP-SB-16	DP-SB-16
Sample ID			DP-SB-15(6-12)	DP-SB-15(12-24)	DP-SB-16(0-2)	DP-SB-16(0-6)	DP-SB-16(2-12)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.5-1.0	1.0-2.0	0.0-0.2	0.0-0.5	0.2-1.0
Date Sampled			04/06/16	04/06/16	04/05/16	04/05/16	04/05/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	NA	6.7 U	5.6 UJ	NA	5.2 UJ
alpha-Chlordane	UG/KG	47000	NA	6.7 U	5.6 UJ	NA	5.2 UJ
Dieldrin	UG/KG	2800	NA	6.7 U	5.6 UJ	NA	5.2 UJ
gamma-Chlordane	UG/KG	-	NA	6.7 U	5.6 U	NA	5.2 U
Heptachlor epoxide	UG/KG	-	NA	6.7 U	5.6 U	NA	5.2 U
Herbicides							
2,4-D	UG/KG	-	NA	27 U	22.6 J	NA	21 UJ
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	33 U	280 U	NA	26 U
Aroclor 1260	UG/KG	-	NA	33 U	280 U	NA	152
Total Polychlorinated Biphenyls	UG/KG	25000	NA	33 U	280 U	NA	152
Metals							
Arsenic	MG/KG	16	NA	2.7	1.8	NA	2.7
Barium	MG/KG	10000	NA	79.2	26.3 J	NA	57.5
Cadmium	MG/KG	60	NA	0.31 J	0.33 U	NA	0.33 U
Chromium	MG/KG	6800	NA	15.4	26.1	NA	16.7 J
Lead	MG/KG	3900	NA	11.8	28.7	NA	16.2
Mercury	MG/KG	5.7	NA	0.089	0.015 J	NA	0.057
Selenium	MG/KG	6800	NA	0.98 U	0.83 U	NA	0.83 U
Silver	MG/KG	6800	NA	0.22 J	0.42 U	NA	0.41 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

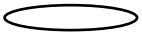
Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-17
Sample ID			DP-SB-16(2-12)DUP	DP-SB-16(6-12)	DP-SB-16(6-12)DUP	DP-SB-16(12-24)	DP-SB-17(0-2)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	0.5-1.0	0.5-1.0	1.0-2.0	0.0-0.2
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/07/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	11 U	2.6 U	2 U	NA
1,1-Dichloroethane	UG/KG	4.80E+05	NA	11 U	2.6 U	2 U	NA
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	11 U	2.6 U	2 U	NA
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	11 U	2.6 U	2 U	NA
Acetone	UG/KG	1.00E+06	NA	54 UJ	126 J	10 UJ	NA
Benzene	UG/KG	89000	NA	2.7 U	1.1	0.55	NA
Carbon disulfide	UG/KG	-	NA	27 U	1.5 J	2.5 J	NA
Ethylbenzene	UG/KG	7.80E+05	NA	11 U	2.6 U	2 U	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	110 U	13 U	10 U	NA
Methylene chloride	UG/KG	1.00E+06	NA	11 U	2.6 U	2 U	NA
Tetrachloroethene	UG/KG	3.00E+05	NA	11 U	2.6 U	2 U	NA
Toluene	UG/KG	1.00E+06	NA	27 U	6.4 U	5 U	NA
Trichloroethene	UG/KG	4.00E+05	NA	11 U	0.48 J	2 U	NA
Xylene (total)	UG/KG	1.00E+06	NA	11 U	2.6 U	2 U	NA
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	5,400 U	NA	NA	3,000 U	310 U
2-Methylnaphthalene	UG/KG	-	2,200 U	NA	NA	1,200 U	130 U
Acenaphthene	UG/KG	1.00E+06	2,200 U	NA	NA	1,200 U	26.2 J
Acenaphthylene	UG/KG	1.00E+06	2,200 U	NA	NA	1,200 U	73.1 J
Anthracene	UG/KG	1.00E+06	2,200 U	NA	NA	198 J	107 J
Benzo(a)anthracene	UG/KG	11000	370 J	NA	NA	2,040	596
Benzo(a)pyrene	UG/KG	1100	429 J	NA	NA	2,660	648

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-17
Sample ID			DP-SB-16(2-12)DUP	DP-SB-16(6-12)	DP-SB-16(6-12)DUP	DP-SB-16(12-24)	DP-SB-17(0-2)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	0.5-1.0	0.5-1.0	1.0-2.0	0.0-0.2
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/07/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)		Field Duplicate (1-1)		
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	393 J	NA	NA	2,760	603
Benzo(g,h,i)perylene	UG/KG	1.00E+06	2,200 U	NA	NA	2,220 U	482 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	412 J	NA	NA	2,210	528
bis(2-Ethylhexyl)phthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	169 J
Butylbenzylphthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	24.1 J
Carbazole	UG/KG	-	2,200 U	NA	NA	291 J	49.6 J
Chrysene	UG/KG	1.10E+05	392 J	NA	NA	2,550	618
Dibenz(a,h)anthracene	UG/KG	1100	2,200 U	NA	NA	1,200 U	237
Dibenzofuran	UG/KG	1.00E+06	2,200 U	NA	NA	1,200 U	17.1 J
Diethylphthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	310 U
Dimethylphthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	310 U
Di-n-butylphthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	310 U
Di-n-octylphthalate	UG/KG	-	5,400 U	NA	NA	3,000 U	310 U
Fluoranthene	UG/KG	1.00E+06	724 J	NA	NA	4,810	1,120
Fluorene	UG/KG	1.00E+06	2,200 U	NA	NA	1,200 U	28.1 J
Indeno(1,2,3-cd)pyrene	UG/KG	11000	2,200 U	NA	NA	1,740 U	615
Naphthalene	UG/KG	1.00E+06	2,200 U	NA	NA	1,200 U	24.2 J
Phenanthrene	UG/KG	1.00E+06	312 J	NA	NA	1,560	447
Pyrene	UG/KG	1.00E+06	593 J	NA	NA	3,690	1,020
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	5.4 U	NA	NA	5.8 U	6.4 U
4,4'-DDE	UG/KG	1.20E+05	1.7 NJ	NA	NA	5.8 UJ	6.2 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

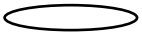
Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-16	DP-SB-17
Sample ID			DP-SB-16(2-12)DUP	DP-SB-16(6-12)	DP-SB-16(6-12)DUP	DP-SB-16(12-24)	DP-SB-17(0-2)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.2-1.0	0.5-1.0	0.5-1.0	1.0-2.0	0.0-0.2
Date Sampled			04/05/16	04/05/16	04/05/16	04/05/16	04/07/16
Parameter	**Units**	**Criteria***	Field Duplicate (1-1)		Field Duplicate (1-1)		
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	R	NA	NA	5.8 UJ	8.7
alpha-Chlordane	UG/KG	47000	5.4 UJ	NA	NA	5.8 UJ	6.4 U
Dieldrin	UG/KG	2800	5.4 UJ	NA	NA	5.8 UJ	3.4 J
gamma-Chlordane	UG/KG	-	5.4 U	NA	NA	5.8 UJ	6.4 U
Heptachlor epoxide	UG/KG	-	5.4 U	NA	NA	5.8 UJ	6.4 U
Herbicides							
2,4-D	UG/KG	-	8.5 J	NA	NA	24 U	26 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	27 U	NA	NA	150 U	32 U
Aroclor 1260	UG/KG	-	91.9 J	NA	NA	150 U	17.9 J
Total Polychlorinated Biphenyls	UG/KG	25000	91.9 J	NA	NA	150 U	17.9 J
Metals							
Arsenic	MG/KG	16	1.8	NA	NA	1.6	5.6
Barium	MG/KG	10000	45.4	NA	NA	40.5	42.4
Cadmium	MG/KG	60	0.32 U	NA	NA	0.35 U	0.47
Chromium	MG/KG	6800	8.1 J	NA	NA	14.7	10.5
Lead	MG/KG	3900	16.4	NA	NA	26.8	21.9
Mercury	MG/KG	5.7	0.055	NA	NA	0.028 J	0.11
Selenium	MG/KG	6800	0.8 U	NA	NA	0.86 U	0.95 U
Silver	MG/KG	6800	0.4 U	NA	NA	0.43 U	0.47 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.


Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17
Sample ID			DP-SB-17(0-6)	DP-SB-17(2-12)	DP-SB-17(6-12)	DP-SB-17(12-24)	DP-SB-17(12-24)DUP
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2.4 U	NA	1.9 U	2.1 U	2.1 U
1,1-Dichloroethane	UG/KG	4.80E+05	2.4 U	NA	1.9 U	2.1 U	2.1 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2.4 U	NA	1.9 U	2.1 U	2.1 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2.4 U	NA	1.9 U	2.1 U	2.1 U
Acetone	UG/KG	1.00E+06	12 UJ	NA	19 UJ	80.0 J	183 J
Benzene	UG/KG	89000	0.98	NA	0.60	0.47 J	1.7 J
Carbon disulfide	UG/KG	-	3.2 J	NA	2.9 J	3.0 J	6.0 J
Ethylbenzene	UG/KG	7.80E+05	2.4 U	NA	1.9 U	2.1 U	2.1 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	12 U	NA	19 U	21 U	21 U
Methylene chloride	UG/KG	1.00E+06	2.4 U	NA	1.9 U	2.1 U	2.1 U
Tetrachloroethene	UG/KG	3.00E+05	2.4 U	NA	1.9 U	2.1 U	2.1 U
Toluene	UG/KG	1.00E+06	0.86 J	NA	0.56 J	5.3 UJ	1.3 J
Trichloroethene	UG/KG	4.00E+05	2.4 U	NA	1.9 U	2.1 U	2.1 U
Xylene (total)	UG/KG	1.00E+06	2.4 U	NA	1.9 U	2.1 U	0.39 J
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	NA	270 U	NA	280 U	270 U
2-Methylnaphthalene	UG/KG	-	NA	31.2 J	NA	40.6 J	110 U
Acenaphthene	UG/KG	1.00E+06	NA	72.8 J	NA	110	58.3 J
Acenaphthylene	UG/KG	1.00E+06	NA	229	NA	588	232
Anthracene	UG/KG	1.00E+06	NA	336	NA	806	426
Benzo(a)anthracene	UG/KG	11000	NA	1,490	NA	2,560	1,740
Benzo(a)pyrene	UG/KG	1100	NA	1,480	NA	2,140	1,830

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17
Sample ID			DP-SB-17(0-6)	DP-SB-17(2-12)	DP-SB-17(6-12)	DP-SB-17(12-24)	DP-SB-17(12-24)DUP
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	NA	1,360	NA	1,930	1,870
Benzo(g,h,i)perylene	UG/KG	1.00E+06	NA	898 J	NA	1,410 J	1,160
Benzo(k)fluoranthene	UG/KG	1.10E+05	NA	1,230	NA	1,900	1,140
bis(2-Ethylhexyl)phthalate	UG/KG	-	NA	356	NA	211 J	62.5 J
Butylbenzylphthalate	UG/KG	-	NA	270 U	NA	280 U	28.3 J
Carbazole	UG/KG	-	NA	135	NA	177	136
Chrysene	UG/KG	1.10E+05	NA	1,500	NA	2,370	1,810
Dibenz(a,h)anthracene	UG/KG	1100	NA	325	NA	469	412
Dibenzofuran	UG/KG	1.00E+06	NA	46.1 J	NA	91.4 J	50.3 J
Diethylphthalate	UG/KG	-	NA	270 U	NA	280 U	270 U
Dimethylphthalate	UG/KG	-	NA	270 U	NA	280 U	270 U
Di-n-butylphthalate	UG/KG	-	NA	270 U	NA	280 U	270 U
Di-n-octylphthalate	UG/KG	-	NA	270 U	NA	280 U	270 U
Fluoranthene	UG/KG	1.00E+06	NA	2,780	NA	4,600	3,420
Fluorene	UG/KG	1.00E+06	NA	85.0 J	NA	276	128
Indeno(1,2,3-cd)pyrene	UG/KG	11000	NA	1,020	NA	1,300	1,100
Naphthalene	UG/KG	1.00E+06	NA	45.9 J	NA	55.7 J	24.2 J
Phenanthrene	UG/KG	1.00E+06	NA	1,220	NA	2,530	1,630
Pyrene	UG/KG	1.00E+06	NA	2,550	NA	4,120	2,910
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	NA	2.1 J	NA	4.8 J	4.9 J
4,4'-DDE	UG/KG	1.20E+05	NA	8.5	NA	22.1	15.9

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17	DP-SB-17
Sample ID			DP-SB-17(0-6)	DP-SB-17(2-12)	DP-SB-17(6-12)	DP-SB-17(12-24)	DP-SB-17(12-24)DUP
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	NA	17.3	NA	29.1 J	14.8 J
alpha-Chlordane	UG/KG	47000	NA	5.5 U	NA	3.1 J	2.9 J
Dieldrin	UG/KG	2800	NA	2.7 J	NA	5.6 U	5.5 U
gamma-Chlordane	UG/KG	-	NA	5.5 U	NA	1.7 J	5.5 U
Heptachlor epoxide	UG/KG	-	NA	5.5 U	NA	1.8 J	5.5 U
Herbicides							
2,4-D	UG/KG	-	NA	22 U	NA	23 U	22 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	NA	28 U	NA	28 U	27 U
Aroclor 1260	UG/KG	-	NA	20.8 J	NA	18.2 J	14.8 J
Total Polychlorinated Biphenyls	UG/KG	25000	NA	20.8 J	NA	18.2 J	14.8 J
Metals							
Arsenic	MG/KG	16	NA	5.8	NA	8.3	7.6
Barium	MG/KG	10000	NA	47.7	NA	62.5	59.0
Cadmium	MG/KG	60	NA	0.50	NA	0.36	0.31 J
Chromium	MG/KG	6800	NA	9.7	NA	13.6	11.7
Lead	MG/KG	3900	NA	31.3	NA	24.7	23.0
Mercury	MG/KG	5.7	NA	0.079	NA	0.068	0.093
Selenium	MG/KG	6800	NA	0.84 U	NA	0.91 U	0.9 U
Silver	MG/KG	6800	NA	0.42 U	NA	0.082 J	0.12 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18
Sample ID			DP-SB-18(0-2)	DP-SB-18(0-6)	DP-SB-18(2-12)	DP-SB-18(6-12)	DP-SB-18(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	2.8 U	NA	1.7 U	2.6 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	2.8 U	NA	1.7 U	2.6 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	2.8 U	NA	1.7 U	2.6 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	2.8 U	NA	1.7 U	2.6 U
Acetone	UG/KG	1.00E+06	NA	14 U	NA	88.1	257
Benzene	UG/KG	89000	NA	1.1	NA	0.39 J	1.3
Carbon disulfide	UG/KG	-	NA	2.8 J	NA	1.2 J	4.9 J
Ethylbenzene	UG/KG	7.80E+05	NA	2.8 U	NA	1.7 U	2.6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	28 U	NA	17 U	26 U
Methylene chloride	UG/KG	1.00E+06	NA	2.8 U	NA	1.7 U	2.6 U
Tetrachloroethene	UG/KG	3.00E+05	NA	2.8 U	NA	1.7 U	2.6 U
Toluene	UG/KG	1.00E+06	NA	2.2 J	NA	4.3 U	1.1 J
Trichloroethene	UG/KG	4.00E+05	NA	2.8 U	NA	1.7 U	2.6 U
Xylene (total)	UG/KG	1.00E+06	NA	2.8 U	NA	1.7 U	2.6 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	310 U	NA	280 U	NA	290 U
2-Methylnaphthalene	UG/KG	-	120 U	NA	110 U	NA	120 U
Acenaphthene	UG/KG	1.00E+06	120 U	NA	110 U	NA	120 U
Acenaphthylene	UG/KG	1.00E+06	120 U	NA	110 U	NA	120 U
Anthracene	UG/KG	1.00E+06	24.2 J	NA	30.4 J	NA	17.1 J
Benzo(a)anthracene	UG/KG	11000	132	NA	182	NA	84.2 J
Benzo(a)pyrene	UG/KG	1100	150	NA	222	NA	112 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18
Sample ID			DP-SB-18(0-2)	DP-SB-18(0-6)	DP-SB-18(2-12)	DP-SB-18(6-12)	DP-SB-18(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	168	NA	212	NA	97.4 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	109 J	NA	166	NA	112 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	106 J	NA	170	NA	79.5 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	71.8 J	NA	280 U	NA	290 U
Butylbenzylphthalate	UG/KG	-	35.6 J	NA	280 U	NA	290 U
Carbazole	UG/KG	-	15.0 J	NA	15.8 J	NA	120 U
Chrysene	UG/KG	1.10E+05	162	NA	223	NA	106 J
Dibenz(a,h)anthracene	UG/KG	1100	32.0 J	NA	51.4 J	NA	28.5 J
Dibenzofuran	UG/KG	1.00E+06	120 U	NA	110 U	NA	120 U
Diethylphthalate	UG/KG	-	310 U	NA	280 U	NA	290 U
Dimethylphthalate	UG/KG	-	310 U	NA	280 U	NA	290 U
Di-n-butylphthalate	UG/KG	-	310 U	NA	280 U	NA	290 U
Di-n-octylphthalate	UG/KG	-	310 U	NA	280 U	NA	290 U
Fluoranthene	UG/KG	1.00E+06	287	NA	343	NA	151
Fluorene	UG/KG	1.00E+06	120 U	NA	110 U	NA	120 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	95.8 J	NA	143	NA	83.5 J
Naphthalene	UG/KG	1.00E+06	120 U	NA	110 U	NA	120 U
Phenanthrene	UG/KG	1.00E+06	117 J	NA	132	NA	51.1 J
Pyrene	UG/KG	1.00E+06	232	NA	294	NA	122
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	6.3 U	NA	5.5 U	NA	5.7 U
4,4'-DDE	UG/KG	1.20E+05	6.3 U	NA	5.5 U	NA	5.7 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:55 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18	DP-SB-18
Sample ID			DP-SB-18(0-2)	DP-SB-18(0-6)	DP-SB-18(2-12)	DP-SB-18(6-12)	DP-SB-18(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	6.3 U	NA	5.5 UJ	NA	5.7 U
alpha-Chlordane	UG/KG	47000	6.3 U	NA	5.5 U	NA	5.7 U
Dieldrin	UG/KG	2800	6.3 U	NA	5.5 U	NA	5.7 U
gamma-Chlordane	UG/KG	-	6.3 U	NA	5.5 U	NA	5.7 U
Heptachlor epoxide	UG/KG	-	6.3 U	NA	5.5 U	NA	5.7 U
Herbicides							
2,4-D	UG/KG	-	25 U	NA	23 U	NA	23 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	31 U	NA	28 U	NA	28 U
Aroclor 1260	UG/KG	-	31 U	NA	14.0 J	NA	18.7 J
Total Polychlorinated Biphenyls	UG/KG	25000	31 U	NA	14.0 J	NA	18.7 J
Metals							
Arsenic	MG/KG	16	4.3	NA	3.5	NA	5.0
Barium	MG/KG	10000	48.1	NA	45.0	NA	81.6
Cadmium	MG/KG	60	0.20 J	NA	0.16 J	NA	0.25 J
Chromium	MG/KG	6800	8.9	NA	10.5	NA	14.2
Lead	MG/KG	3900	14.2	NA	13.5	NA	15.7
Mercury	MG/KG	5.7	0.051	NA	0.047	NA	0.048
Selenium	MG/KG	6800	0.31 J	NA	0.9 U	NA	0.93 U
Silver	MG/KG	6800	0.16 J	NA	0.45 U	NA	0.17 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19
Sample ID			DP-SB-19(0-2)	DP-SB-19(0-6)	DP-SB-19(2-12)	DP-SB-19(6-12)	DP-SB-19(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	NA	1.9 U	NA	1.7 U	2.2 U
1,1-Dichloroethane	UG/KG	4.80E+05	NA	1.9 U	NA	1.7 U	2.2 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	NA	1.9 U	NA	1.7 U	2.2 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	NA	1.9 U	NA	1.7 U	2.2 U
Acetone	UG/KG	1.00E+06	NA	429 J	NA	208	11 U
Benzene	UG/KG	89000	NA	0.47 U	NA	0.43 U	0.63
Carbon disulfide	UG/KG	-	NA	4.7 UJ	NA	1.4 J	1.1 J
Ethylbenzene	UG/KG	7.80E+05	NA	1.9 U	NA	1.7 U	2.2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	NA	19 U	NA	17 U	22 U
Methylene chloride	UG/KG	1.00E+06	NA	1.9 U	NA	1.7 U	2.2 U
Tetrachloroethene	UG/KG	3.00E+05	NA	1.9 U	NA	1.7 U	2.2 U
Toluene	UG/KG	1.00E+06	NA	4.7 U	NA	1.1 J	5.5 U
Trichloroethene	UG/KG	4.00E+05	NA	1.9 U	NA	1.7 U	2.2 U
Xylene (total)	UG/KG	1.00E+06	NA	1.9 U	NA	1.7 U	2.2 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	330 U	NA	290 U	NA	280 U
2-Methylnaphthalene	UG/KG	-	130 U	NA	110 U	NA	110 U
Acenaphthene	UG/KG	1.00E+06	130 U	NA	110 U	NA	110 U
Acenaphthylene	UG/KG	1.00E+06	130 U	NA	110 U	NA	110 U
Anthracene	UG/KG	1.00E+06	130 U	NA	110 U	NA	26.4 J
Benzo(a)anthracene	UG/KG	11000	21.3 J	NA	26.1 J	NA	101 J
Benzo(a)pyrene	UG/KG	1100	22.7 J	NA	25.8 J	NA	110

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19
Sample ID			DP-SB-19(0-2)	DP-SB-19(0-6)	DP-SB-19(2-12)	DP-SB-19(6-12)	DP-SB-19(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	19.0 J	NA	29.5 J	NA	97.5 J
Benzo(g,h,i)perylene	UG/KG	1.00E+06	18.2 J	NA	21.1 J	NA	79.6 J
Benzo(k)fluoranthene	UG/KG	1.10E+05	20.7 J	NA	110 U	NA	85.3 J
bis(2-Ethylhexyl)phthalate	UG/KG	-	33.1 J	NA	65.1 J	NA	49.8 J
Butylbenzylphthalate	UG/KG	-	330 U	NA	290 U	NA	280 U
Carbazole	UG/KG	-	130 U	NA	110 U	NA	110 U
Chrysene	UG/KG	1.10E+05	23.6 J	NA	28.3 J	NA	108 J
Dibenz(a,h)anthracene	UG/KG	1100	130 U	NA	110 U	NA	110 U
Dibenzofuran	UG/KG	1.00E+06	130 U	NA	110 U	NA	110 U
Diethylphthalate	UG/KG	-	330 U	NA	290 U	NA	280 U
Dimethylphthalate	UG/KG	-	330 U	NA	290 U	NA	280 U
Di-n-butylphthalate	UG/KG	-	330 U	NA	290 U	NA	280 U
Di-n-octylphthalate	UG/KG	-	330 U	NA	290 U	NA	280 U
Fluoranthene	UG/KG	1.00E+06	43.4 J	NA	47.1 J	NA	209
Fluorene	UG/KG	1.00E+06	130 U	NA	110 U	NA	110 U
Indeno(1,2,3-cd)pyrene	UG/KG	11000	130 U	NA	110 U	NA	71.4 J
Naphthalene	UG/KG	1.00E+06	130 U	NA	110 U	NA	110 U
Phenanthrene	UG/KG	1.00E+06	20.8 J	NA	22.0 J	NA	107 J
Pyrene	UG/KG	1.00E+06	35.9 J	NA	42.3 J	NA	193
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	6.6 U	NA	5.8 U	NA	5.5 U
4,4'-DDE	UG/KG	1.20E+05	6.6 U	NA	3.9 J	NA	2.9 J

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19	DP-SB-19
Sample ID			DP-SB-19(0-2)	DP-SB-19(0-6)	DP-SB-19(2-12)	DP-SB-19(6-12)	DP-SB-19(12-24)
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			0.0-0.2	0.0-0.5	0.2-1.0	0.5-1.0	1.0-2.0
Date Sampled			04/07/16	04/07/16	04/07/16	04/07/16	04/07/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	6.6 U	NA	2.6 J	NA	5.5 UJ
alpha-Chlordane	UG/KG	47000	6.6 U	NA	5.8 U	NA	5.5 U
Dieldrin	UG/KG	2800	3.5 J	NA	15.2	NA	17.9
gamma-Chlordane	UG/KG	-	6.6 U	NA	5.8 U	NA	5.5 U
Heptachlor epoxide	UG/KG	-	6.6 U	NA	5.8 U	NA	5.5 U
Herbicides							
2,4-D	UG/KG	-	26 U	NA	23 U	NA	22 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	33 U	NA	29 U	NA	28 U
Aroclor 1260	UG/KG	-	33 U	NA	29 U	NA	56.8
Total Polychlorinated Biphenyls	UG/KG	25000	33 U	NA	29 U	NA	56.8
Metals							
Arsenic	MG/KG	16	5.7	NA	5.1	NA	4.8
Barium	MG/KG	10000	34.6	NA	34.1	NA	57.9
Cadmium	MG/KG	60	0.11 J	NA	0.12 J	NA	0.13 J
Chromium	MG/KG	6800	10.8	NA	9.9	NA	11.9
Lead	MG/KG	3900	10.9	NA	12.7	NA	10.2
Mercury	MG/KG	5.7	0.043	NA	0.042	NA	0.030 J
Selenium	MG/KG	6800	0.99 U	NA	0.34 J	NA	0.93 U
Silver	MG/KG	6800	0.15 J	NA	0.16 J	NA	0.47 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Sample ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.5-1.0	-	0.0-0.5	-
Date Sampled			04/08/16	04/08/16	04/08/16	04/08/16	04/08/16
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/KG	1.00E+06	2.6 U	2.3 U	2.4 U	2.7 UJ	2.7 U
1,1-Dichloroethane	UG/KG	4.80E+05	2.6 U	2.3 U	2.4 U	2.7 UJ	2.7 U
1,2-Dichloroethene (cis)	UG/KG	1.00E+06	2.6 U	2.3 U	2.4 U	2.7 UJ	2.7 U
1,2-Dichloroethene (trans)	UG/KG	1.00E+06	2.6 U	2.3 U	2.4 U	2.7 UJ	2.7 U
Acetone	UG/KG	1.00E+06	366 J	132	170	13 UJ	468 J
Benzene	UG/KG	89000	1.0 J	0.82	0.76	0.67 UJ	1.4 J
Carbon disulfide	UG/KG	-	64.6 J	4.6 J	36.6 J	6.7 UJ	13.6 J
Ethylbenzene	UG/KG	7.80E+05	0.51 J	2.3 U	2.4 U	2.7 UJ	2.7 U
Methyl ethyl ketone (2-Butanone)	UG/KG	1.00E+06	46.3 J	23 U	24 U	27 UJ	38.3 J
Methylene chloride	UG/KG	1.00E+06	2.6 U	2.3 U	2.4 U	6.0 U	2.7 U
Tetrachloroethene	UG/KG	3.00E+05	2.6 U	2.3 U	2.4 U	2.7 UJ	2.7 U
Toluene	UG/KG	1.00E+06	1.6 J	0.66 J	5.9 U	6.7 UJ	2.2 J
Trichloroethene	UG/KG	4.00E+05	2.6 U	1.7 J	2.4 U	2.7 UJ	2.7 U
Xylene (total)	UG/KG	1.00E+06	0.58 J	2.3 U	2.4 U	2.7 UJ	0.54 J
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/KG	-	340 U	300 U	280 U	340 U	1,800 U
2-Methylnaphthalene	UG/KG	-	140 U	120 U	110 U	130 U	710 U
Acenaphthene	UG/KG	1.00E+06	140 U	120 U	110 U	130 U	623 J
Acenaphthylene	UG/KG	1.00E+06	140 U	120 U	110 U	130 U	710 U
Anthracene	UG/KG	1.00E+06	42.8 J	14.8 J	14.2 J	130 U	1,580
Benzo(a)anthracene	UG/KG	11000	249	76.3 J	74.7 J	34.4 J	6,240
Benzo(a)pyrene	UG/KG	1100	288	98.1 J	85.6 J	41.7 J	6,700

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Sample ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.5-1.0	-	0.0-0.5	-
Date Sampled			04/08/16	04/08/16	04/08/16	04/08/16	04/08/16
Parameter	**Units**	**Criteria***					
Semivolatile Organic Compounds							
Benzo(b)fluoranthene	UG/KG	11000	341	105 J	114	50.4 J	7,010
Benzo(g,h,i)perylene	UG/KG	1.00E+06	242	92.5 J	82.6 J	35.4 J	4,380
Benzo(k)fluoranthene	UG/KG	1.10E+05	235	80.6 J	65.0 J	37.5 J	5,360
bis(2-Ethylhexyl)phthalate	UG/KG	-	340 U	32.9 J	280 U	24.0 J	1,800 U
Butylbenzylphthalate	UG/KG	-	340 U	300 U	280 U	340 U	1,800 U
Carbazole	UG/KG	-	42.1 J	120 U	110 U	130 U	881
Chrysene	UG/KG	1.10E+05	315	91.7 J	92.6 J	46.8 J	7,630
Dibenz(a,h)anthracene	UG/KG	1100	67.4 J	120 U	25.2 J	130 U	1,450
Dibenzofuran	UG/KG	1.00E+06	140 U	120 U	110 U	130 U	328 J
Diethylphthalate	UG/KG	-	340 U	300 U	280 U	340 U	1,800 U
Dimethylphthalate	UG/KG	-	340 U	300 U	98.5 J	340 U	1,800 U
Di-n-butylphthalate	UG/KG	-	340 U	300 U	280 U	340 U	1,800 U
Di-n-octylphthalate	UG/KG	-	340 U	300 U	280 U	340 U	1,800 U
Fluoranthene	UG/KG	1.00E+06	594	154	148	64.3 J	17,200
Fluorene	UG/KG	1.00E+06	140 U	120 U	110 U	130 U	777
Indeno(1,2,3-cd)pyrene	UG/KG	11000	198	75.8 J	68.7 J	130 U	3,860
Naphthalene	UG/KG	1.00E+06	140 U	120 U	110 U	130 U	710 U
Phenanthrene	UG/KG	1.00E+06	278	65.1 J	66.6 J	28.4 J	10,300
Pyrene	UG/KG	1.00E+06	474	130	117	48.1 J	11,500
Pesticide Organic Compounds							
4,4'-DDD	UG/KG	1.80E+05	7 U	6 U	5.7 U	6.7 U	7.1 U
4,4'-DDE	UG/KG	1.20E+05	7 U	6 U	5.7 U	6.7 U	7.1 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
DEBRIS PILE AREA SOIL ANALYTICAL RESULTS
INDUSTRIAL USE CRITERIA

Location ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Sample ID			DP-SE-01	DP-SE-02	DP-SE-03	DP-SE-04	DP-SE-05
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			1.0-2.0	0.5-1.0	-	0.0-0.5	-
Date Sampled			04/08/16	04/08/16	04/08/16	04/08/16	04/08/16
Parameter	**Units**	**Criteria***					
Pesticide Organic Compounds							
4,4'-DDT	UG/KG	94000	7 UJ	6 UJ	5.7 UJ	6.7 UJ	7.1 UJ
alpha-Chlordane	UG/KG	47000	7 U	6 U	5.7 U	6.7 U	3.6 J
Dieldrin	UG/KG	2800	7 U	6 U	5.7 U	6.7 U	7.1 U
gamma-Chlordane	UG/KG	-	7 U	6 U	5.7 U	6.7 U	7.1 U
Heptachlor epoxide	UG/KG	-	7 U	6 U	5.7 U	6.7 U	2.2 J
Herbicides							
2,4-D	UG/KG	-	28 U	25 U	23 U	27 U	28 U
Polychlorinated Biphenyls							
Aroclor 1254	UG/KG	-	35 U	30 U	28 U	34 U	36 U
Aroclor 1260	UG/KG	-	25.3 J	20.3 J	28 U	34 U	36 U
Total Polychlorinated Biphenyls	UG/KG	25000	25.3 J	20.3 J	28 U	34 U	36 U
Metals							
Arsenic	MG/KG	16	1.8	1.6	1.7	1.7	4.2
Barium	MG/KG	10000	30.9	29.1	57.5	47.6	44.0
Cadmium	MG/KG	60	0.20 J	0.066 J	0.055 J	0.069 J	0.32 J
Chromium	MG/KG	6800	14.8	9.3	15.1	13.9	26.6
Lead	MG/KG	3900	17.2	7.5	7.9	7.4	28.7
Mercury	MG/KG	5.7	0.017 J	0.015 J	0.029 U	0.013 J	0.033 J
Selenium	MG/KG	6800	1 U	0.95 U	0.91 U	0.98 U	1.1 U
Silver	MG/KG	6800	0.5 U	0.47 U	0.45 U	0.49 U	0.54 U

*Criteria- 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Soils
#Error
Printed: 6/14/2016 8:39:56 AM
[SITE KEY] = 2 AND [MATRIX] = 'SO' AND [LOCID] <> 'DRUM COMPOSITE'

TABLE 6
GROUNDWATER ANALYTICAL RESULTS
SOUTHEAST DEBRIS/SOIL PILE

Location ID			DP-MW-01	DP-MW-02	DP-MW-03	DP-MW-04	DP-MW-05
Sample ID			DP-MW01	DP-MW02	DP-MW03	DP-MW04	DP-FD-041816
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/18/16	04/18/16	04/18/16	04/18/16	04/18/16
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,2-Dichloroethene (cis)	UG/L	5	0.34 J	1 U	1 U	1 U	1 U
Acetone	UG/L	50	10 U	10 U	10 U	3.2 J	R
Semivolatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	UG/L	5	3.2 U	5.7	2.5	2.2 U	2 U
Metals							
Arsenic	UG/L	25	4 U	4 U	4 U	3.4	4.4
Barium	UG/L	1000	62.2	76.3	89.2	105	211
Chromium	UG/L	50	10 U	10 U	10 U	10 U	3.7
Lead	UG/L	25	5 U	5 U	5 U	5 U	1.6
Mercury	UG/L	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

R - The data is rejected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: Debris Pile Wate
#Error
Printed: 6/10/2016 9:37:40 AM
[SITE KEY] = 2 AND [MATRIX] = 'WG'

TABLE 6
GROUNDWATER ANALYTICAL RESULTS
SOUTHEAST DEBRIS/SOIL PILE

Location ID			DP-MW-05
Sample ID			DP-MW05
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			04/18/16
Parameter	**Units**	**Criteria***	
Volatile Organic Compounds			
1,2-Dichloroethene (cis)	UG/L	5	1 U
Acetone	UG/L	50	R
Semivolatile Organic Compounds			
bis(2-Ethylhexyl)phthalate	UG/L	5	2.7
Metals			
Arsenic	UG/L	25	5.2
Barium	UG/L	1000	213
Chromium	UG/L	50	4.0
Lead	UG/L	25	1.8
Mercury	UG/L	0.7	0.068

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

R - The data is rejected.

J - The reported concentration is an estimated value.

Only Detected Results Reported.

Detection Limits shown are PQL

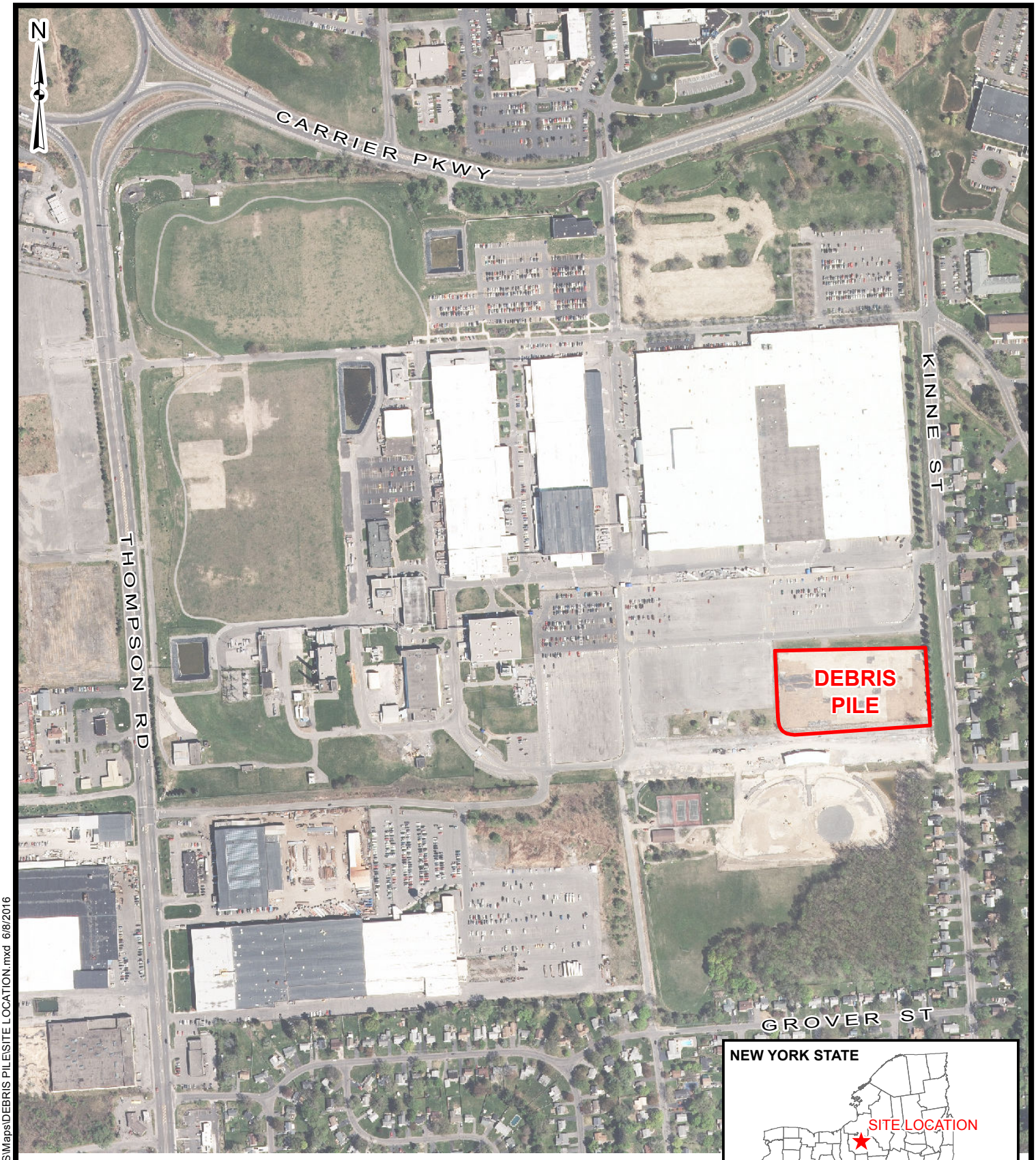
Advanced Selection: Debris Pile Wate
#Error
Printed: 6/10/2016 9:37:40 AM
[SITE KEY] = 2 AND [MATRIX] = 'WG'

Table 7
Average Exposure Point SVOC Concentrations
UTC/Carrier - Southeast Debris/Soil Pile

Parameter	Units	Industrial SCOs	Interval		
			0- to 0.2-ft	0.2- to 1-ft	1- to 2-ft
Benzo(a)anthracene	UG/KG	11000	1187	**11134**	575
Benzo(a)pyrene	UG/KG	1100	**1139**	**9061**	537
Benzo(b)fluoranthene	UG/KG	11000	1201	9946	529
Benzo(k)fluoranthene	UG/KG	110000	1015	7471	464
Chrysene	UG/KG	110000	1304	11648	598
Dibenz(a,h)anthracene	UG/KG	1100	273	**1959**	122
Fluoranthene	UG/KG	1000000	2860	24041	1292
Indeno(1,2,3-cd)pyrene	UG/KG	11000	697	5193	300
Phenanthrene	UG/KG	1000000	1770	15394	775
Pyrene	UG/KG	1000000	2227	18861	1026

Notes:
Average Exposure Point Concentrations based on 11 samples
Bold and shading indicates the average exceeds the SCO

Figures



Source: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

500 0 500 Feet

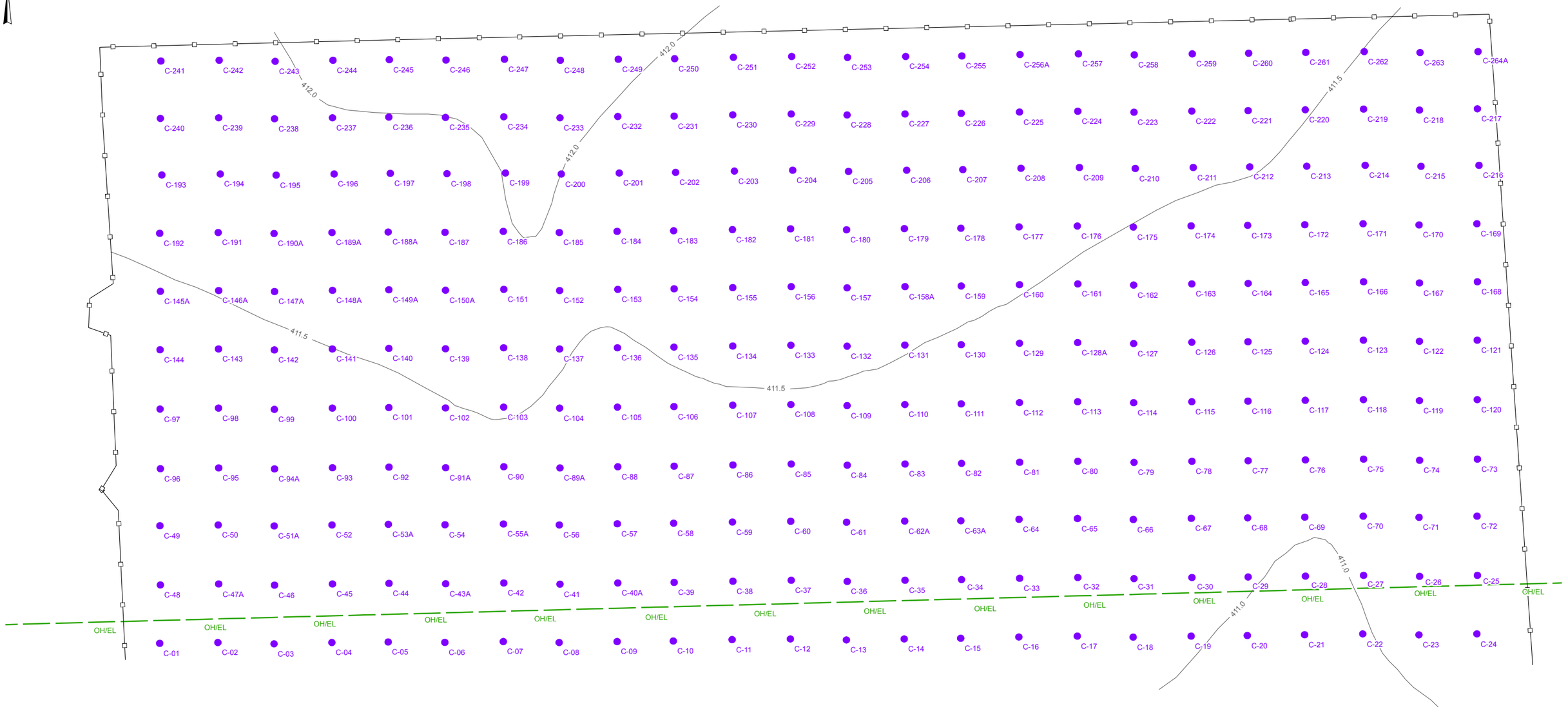
AECOM

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
SITE LOCATION

FIGURE 1

J:\Projects\60310231_UTCAOCGR\MISC\GIS\Maps\DEBRIS PILESITE LOCATION.mxd 6/8/2016

N



Legend

- C-150 Verification Sample Location
- 412.0 Contour Interval
- Fence
- Utility Line

40 0 40 Feet

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
SELF-IMPLEMENTING CLEANUP PLAN
VERIFICATION SAMPLE LOCATIONS
(OCTOBER-DECEMBER 2014)

AECOM

FIGURE 2

J:\Projects\60310231_UTCAOCGR\MISC\GIS\Maps\DEBRIS PILE\VERIFICATION SAMPLE LOCATIONS.mxd 6/8/2016

J:\Projects\60310231_UTCAOCGR\MISC\GIS\Maps\DEBRIS PILE\SAMPLE LOCATIONS.mxd 6/8/2016

AECOM

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
SAMPLE LOCATIONS

FIGURE 3

J:\Projects\60310231_UTCAOCGR\MISC\GIS\Maps\DEBRIS PILEGROUNDWATER ELEVATIONS (20160418).mxd 6/8/2016

AECOM

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
GROUNDWATER ELEVATIONS
(APRIL 18, 2016)

FIGURE 4

N

WINCHESTER RD

KINNE ST

DP-SE-05 (0' - 0') | CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	6700
Dibenz(a,h)anthracene	1100	1450

DP-SB-17 (0.17' - 1')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	1480

DP-SB-17 (1' - 2')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	2140

DP-SB-06 (0.17' - 1')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	1220

DP-SB-16 (0' - 0.17')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	4020

DP-SB-16 (1' - 2')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	2660

DP-SB-09 (0' - 0.17') | CRIT | 4/16

SVOCs:		
Benzo(a)anthracene	11000	11900
Benzo(a)pyrene	1100	9720
Dibenz(a,h)anthracene	1100	2000

DP-SB-09 (0.17' - 1') | CRIT | 4/16

SVOCs:		
Benzo(a)anthracene	11000	126000
Benzo(a)pyrene	1100	101000
Benzo(b)fluoranthene	11000	117000
Chrysene	110000	133000
Dibenz(a,h)anthracene	1100	22000
Indeno(1,2,3-cd)pyrene	11000	66700

DP-SB-09 (1' - 2')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	3150

DP-SB-15 (0.17' - 1') | CRIT | 4/16

SVOCs:		
Benzo(a)anthracene	11000	79600
Benzo(a)pyrene	1100	65100
Benzo(b)fluoranthene	11000	66100
Dibenz(a,h)anthracene	1100	13300
Indeno(1,2,3-cd)pyrene	11000	27300

DP-SB-14 (0' - 0.17')| CRIT | 4/16

SVOCs:		
Benzo(a)pyrene	1100	1820

DP-SE-01 DP-SB-11 DP-SE-02 DP-MW-01 DP-SB-01 DP-SE-03 DP-SB-12 DP-SE-04

DP-SB-07 DP-SB-08 DP-MW-02 DP-SB-02

DP-SB-18 DP-SB-13 DP-SB-19

DP-SB-10 DP-MW-05 DP-SB-05

DP-MW-04 DP-SB-04

DP-MW-03 DP-SB-03

Legend

- Monitoring Well
- Catch Basin Soil Sample
- Soil Boring

CRITERIA: 6 NYCRR Part 375.6, Remedial Program Soil Cleanup Objectives, Effective 12/14/06. Protection of Public Health, Industrial.
NOTES: Units shown in µg/kg.
SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

80 0 80 Feet

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
SOIL EXCEEDANCES
(APRIL 2016)

AECOM

FIGURE 5

J:\Projects\60310231_UTCAOCGR\MISC\GIS\Maps\DEBRIS PILE\SOIL ANALYTICAL RESULTS (APRIL 2016).mxd 6/8/2016

N

WINCHESTER RD

KINNE ST

DP-MW-01

DP-MW-02

DP-MW-02	CRIT	4/16
SVOCs:		
bis(2-Ethylhexyl)phthalate	5	5.7

DP-MW-05

DP-MW-04

DP-MW-03

Legend

⌖ Monitoring Well

CRITERIA: NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.
NOTES: Units shown in µg/L.
SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

80 0 80 Feet

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
GROUNDWATER EXCEEDANCES
(APRIL 2016)

AECOM

FIGURE 6

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\DEBRIS PILE\GROUNDWATER ANALYTICAL RESULTS (APRIL 2016).mxd 6/8/2016

Appendix A

Boring/Well Construction Logs

AECOM

TEST BORING LOG

BORING NO. : DPMW-01

PROJECT/PROJECT LOCATION: UTC Debris Pile	**SHEET:** 1 **OF** 1
CLIENT: UTC	**JOB NO. :** 60480273
BORING CONTRACTOR: Parratt-Wolff	**NORTHING:** 1123220.64 **EASTING:** 954880.49
GROUNDWATER:	**GROUND ELEVATION:** 406.14

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE	HSA	Macrocore		
				DIA.	4 1/4"	2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED:

DATE FINISHED:

DRILLER: Jolaan Price

GEOLOGIST: Rob Murphy

REVIEWED BY: Kevin Connare

DEPTH FEET	STRATA	SAMPLE DEPTH	SAMPLE BLOW COUNTS	RECOVERY (%)	PID DIRECT/ HEAD-SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
0		0-4		NA	ND	Dark brown Topsoil, organic silt.	Hole Plug (0.5-1.5')	Moist
						Gray brown Clayey SILT, some fine to very fine sand, dilatant (ML)	2" PVC Riser (0'-2')	
-5		4-8		100	ND	Brown Clayey SILT, trace to some very fine sand (ML)		Wet @ 3.5'.
						Brown fine SAND, trace silt, dilatant (SP)	NJ #0 US Silica (1.5'-12')	
-10		8-12		75	ND	Gray fine SAND, trace silt (SP)	10-slot 2" PVC screen (2'-12')	
						End of boring @ 12.0'		
-15								
-20								
-25								

COMMENTS: Boring hand cleared to 5' bgs then advanced with track mounted Geoprobe 6712 DT rig.

AECOM

TEST BORING LOG

BORING NO. : DPMW-02

PROJECT/PROJECT LOCATION: UTC Debris Pile

SHEET: 1 **OF** 1

CLIENT: UTC

JOB NO. : 60480273

BORING CONTRACTOR: Parratt-Wolff

NORTHING: 1123133.30 **EASTING:** 955153.64

GROUNDWATER:

GROUND ELEVATION: 407.54

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.	4 1/4"	2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED:

DATE FINISHED:

DRILLER: Jolaan Price

GEOLOGIST: R. Murphy

REVIEWED BY: Kevin Connare

DEPTH FEET	STRATA	SAMPLE DEPTH	SAMPLE BLOW COUNTS	RECOVERY (%)	PID DIRECT/ HEAD-SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
0		0-4		NA	ND	FILL: Gray Silty CLAY with brick and gravel.	Hole Plug (0.5-1.5')	Moist
						Brown Clayey SILT (ML)	2" PVC Riser (0'-2')	
		4-8		100	ND	Brown Silty CLAY (CL)		
-5						Brown Silty fine SAND (SM)		Wet @ 5'.
						Brown Clayey SILT, trace fine sand (ML)	NJ #0 US Silica (1.5'-12')	
		8-12		65	ND	Brown Silty fine SAND (SM)	10-slot 2" PVC screen (2'-12')	
-10						Gray Silty fine SAND (SM)		
						End of boring @ 12.0'		
-15								
-20								
-25								

COMMENTS: Boring hand cleared to 4' bgs then advanced with track mounted Geoprobe 6712 DT rig.

BORING NO. : DPMW-02

TEST BORING LOG

AECOM

BORING NO. :	DPMW-03
PROJECT/PROJECT LOCATION:	UTC Debris Pile
SHEET:	1 OF 1
CLIENT:	UTC
JOB NO. :	60480273
BORING CONTRACTOR:	Parratt-Wolff
NORTHING:	1122921.52 **EASTING:** 954902.00
GROUNDWATER:	
GROUND ELEVATION:	407.16

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.	4 1/4"	2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED:	
DATE FINISHED:	
DRILLER:	Jolaan Price
GEOLOGIST:	Rob Murphy
REVIEWED BY:	Kevin Connare

DEPTH FEET	STRATA	SAMPLE DEPTH	SAMPLE BLOW COUNTS	RECOVERY (%)	PID DIRECT/ HEAD-SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
0		0-4		NA	ND	Gray brown Clayey SILT to Silty CLAY (CL/ML)	2" PVC Riser (-2.5'-2')	Moist
						Gray brown Clayey SILT (ML)	Hole Plug (0.5-1.5')	Wet @ 3'.
-5		4-8		88	ND	Gray Silty fine SAND (SM)		
						Brown Clayey SILT, trace to some fine sand (ML)		
						Brown Silty CLAY, some fine sand interbeds (CL)	NJ #0 US Silica (1.5'-12')	
						Brown Clayey SILT, some fine sand (ML)		
-10		8-12		100	ND	Brown Silty Fine SAND (SM)	10-slot 2" PVC screen (2'-12')	
						Brown Clayey SILT, some fine sand (ML)		
						Gray Clayey SILT, trace to some fine sand (ML)		
-15						End of boring @ 12.0'		
-20								

COMMENTS: Boring hand cleared to 4' bgs then advanced with track mounted Geoprobe 6712 DT rig.

Stickup casing required due to standing surface water.

BORING NO. : DPMW-03

AECOM

TEST BORING LOG

BORING NO. : DPMW-04

PROJECT/PROJECT LOCATION: UTC Debris Pile	**SHEET:** 1 **OF** 1
CLIENT: UTC	**JOB NO. :** 60480273
BORING CONTRACTOR: Parratt-Wolff	**NORTHING:** 1122974.74 **EASTING:** 954593.56
GROUNDWATER:	**GROUND ELEVATION:** 408.75

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	CORE	TUBE
				DIA.	4 1/4"	2"		
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED:
DATE FINISHED:
DRILLER: Jolaan Price
GEOLOGIST: Rob Murphy
REVIEWED BY: Kevin Connare

DEPTH FEET	STRATA	SAMPLE DEPTH	SAMPLE BLOW COUNTS	RECOVERY (%)	PID DIRECT/ HEAD-SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
0		0-4		NA	ND	Brown gray Silty CLAY, some gravel (CL)	Hole Plug (0.5-1.5'); 2" PVC Riser (0'-2')	Moist
-5		4-8		100	ND	Light brown Clayey SILT, some fine sand (ML)	NJ #0 US Silica (1.5'-12')	Wet @ 4.0'. Standing water in Hand-clear hole to 2.5'.
-10		8-12		95	ND	Gray Clayey SILT, some fine sand (ML)	10-slot 2" PVC screen (2'-12')	
						End of boring @ 12.0'		
-15								
-20								
-25								

COMMENTS: Boring hand cleared to 4' bgs then advanced with track mounted Geoprobe 6712 DT rig.

AECOM

TEST BORING LOG

BORING NO. : DPMW-05

PROJECT/PROJECT LOCATION: UTC Debris Pile

SHEET: 1 **OF** 1

CLIENT: UTC

JOB NO. : 60480273

BORING CONTRACTOR: Parratt-Wolff

NORTHING: 1122995.89 **EASTING:** 954882.97

GROUNDWATER:

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE	HSA	Macrocore		
DIA.	4 1/4"	2"		
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION: 407.35

DATE STARTED:

DATE FINISHED:

DRILLER: Jolaan Price

GEOLOGIST: Rob Murphy

REVIEWED BY: Kevin Connare

DEPTH FEET	STRATA	SAMPLE DEPTH	SAMPLE BLOW COUNTS	RECOVERY (%)	PID DIRECT/ HEAD-SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
0		0-4		NA	ND	Brown Clayey SILT to Silty CLAY with Asphalt, gravel, and wood (Fill) Brown Clayey SILT, some very fine sand from 2.5-4.0', brownish gray from 3-4' (ML)	2" PVC Riser (-2.5'-2') Hole Plug (0.5-1.5')	Moist
-5		4-8		95	ND	Gray brown Clayey SILT, trace to some very fine sand, occassional silty fine sand seam (ML) Gray brown Silty Fine SAND (SM)	NJ #0 US Silica (1.5'-12')	Wet @ 4'.
-10		8-12		78	ND	Brown to gray brown Clayey SILT with thin fine sand interbeds (ML) Gray Silty Fine SAND (SM)	10-slot 2" PVC screen (2'-12')	
-15						End of boring @ 12.0'		
-20								

COMMENTS: Boring hand cleared to 4' bgs then advanced with track mounted Geoprobe 6712 DT rig.

Stickup casing required due to standing surface water.

Appendix B

Well Development Logs

WELL DEVELOPMENT LOG

PROJECT TITLE: UIC - Debris Pile WELL NO.: DP-MW-01

PROJECT NO.:

STAFF: K. Stahl

DATE(S): 4/14/16

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	10.0	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	2.95	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.05	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.2	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ___)	=		6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	25	8"	2.60

OR

$V = 0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	1	5	15	20	25						
pH	8.68	8.47	8.43	8.29	8.31						
SPEC. COND. (umhos)	1.43	1.51	1.51	1.26	1.31						
APPEARANCE	Brn	Brn	Brn	Brn	Brn						
TEMPERATURE (°C)	8.42	8.99	9.06	10.30	10.28						
TURB	>999	>999	>999	>999	>999						

COMMENTS:

Dry @ 5 gal Removed. Allow To Recover and Restart.

Dry @ 10 gal Removed - "

WELL DEVELOPMENT LOG

PROJECT TITLE: UTC - Debris Pile WELL NO.: DP-MW-02

PROJECT NO.:

STAFF: K. Stahl / R. Russo

DATE(S): 4/14/16

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	11.0	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	3.80	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.20	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.2	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ___)	=		6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	20	8"	2.60

OR
$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	5	10	15	20							
pH	7.72	7.38	7.50	7.49							
SPEC. COND. (umhos)	1.13	1.17	1.15	1.16							
APPEARANCE	BRN	BRN	Lt. Brn	BRN							
TEMPERATURE (°C)	10.17	10.47	12.50	12.49							
TURB	>999	>999	>999	>999							

COMMENTS:

Dry @ 11 gal Removed. Allow To recover and Restart

Dry @ 15 gal (after 4 gallons pumped out)

Try @ 5 gal Removed

WELL DEVELOPMENT LOG

PROJECT TITLE: UTC - Debris Pile WELL NO.: DP-MW-03

PROJECT NO.:

STAFF: K. Stahl / R. Russo

DATE(S): 4/14/16

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	14.5	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	4.0	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	10.5	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.8	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ___)	=		6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	30	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	2	10	20	30							
pH	7.90	7.89	7.87	7.84							
SPEC. COND. (umhos)	1.38	1.30	1.29	1.26							
APPEARANCE	BRN	BRN	BRN	BRN							
TEMPERATURE (°C)	5.65	6.76	6.96	7.08							
TURB	>999	>999	>999	>999							

COMMENTS:

WELL DEVELOPMENT LOG

PROJECT TITLE: UTC – Debris Pile WELL NO.: DP-MW-04

PROJECT NO.:

STAFF: K. Stahle

DATE(S): 4/14/16

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	11.4	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	1.5	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	9.9	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.7	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ___)	=		6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	13.8	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	5	10	13.8								
pH	7.63	7.71	7.69								
SPEC. COND. (umhos)	1.40	1.57	1.39								
APPEARANCE	BRN	BRN	BRN								
TEMPERATURE (°C)	6.77	6.89	6.76								
TURB	>999	>999	>999								

COMMENTS:

Dry @ 11 gal Removed - Allow To recover and restart.

Dry @ 1.5 gal removed - " "

Dry @ 1.3 gal removed

WELL DEVELOPMENT LOG

PROJECT TITLE: UTC - Debris Pile WELL NO.: DP-MW-05

PROJECT NO.:

STAFF: K. Stabile / R. Russo

DATE(S): 4/14/16

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	13.5	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	3.05	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	10.45	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.8	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x ___)	=		6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	40	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	5	20	30	40							
pH	7.28	7.27	7.31	7.47							
SPEC. COND. (umhos)	1.27	1.26	1.25	1.24							
APPEARANCE	brn	BRN	BRN	BRN							
TEMPERATURE (°C)	6.11	6.57	6.85	6.91							
Turbidity	>999	>999	>999	>999							

COMMENTS:

Appendix C

Well Purge/Sampling Logs

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: UTC-DEBRIS PILE Well I.D.: DP-MW-01

Date: 7/18/16 Sampling Personnel: Q. Murphy Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.80 Depth to Well Bottom: 9.59 Well Diameter: 2" Screen Length:

9.28 + 0.31 = 9.59

Volume in Well Casing (liters): 6.79 4.2

Casing Type: PVC Estimated Purge Volume (liters):

Sample ID: DPMW-01 Sample Time: 1136 QA/QC:

Sample Parameters: VOCs, SVOCs, Pest/Herbs, PCBs, PCBs(Filtered), Metals(RCRA 8) Plus Ag

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP ~~Eh~~(mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1051	7.05	11.04	1.96	0.00	338	53	440	2.80
1056	6.76	9.93	1.45	0.00	345	75	440	3.55
1101	6.74	10.18	1.45	0.00	539	69	440	3.75
1106	6.74	10.01	1.45	0.00	380	67	380	3.77
1111	6.75	9.59	1.46	0.00	201	65	380	3.80
1116	6.74	9.49	1.43	0.00	58.5	67	370	3.80
1121	6.76	9.60	1.43	0.00	52.8	67	370	3.79
1126	6.75	9.71	1.40	0.00	18.0	66	370	3.80
1131	6.75	9.70	1.39	0.00	12.7	68	370	3.80
1136	6.75	9.74	1.37	0.00	7.1	68	370	3.82
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_c = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: VTC - Debris Pile Site: Carrier Well I.D.: DP-MW-02

Date: 4/18/16 Sampling Personnel: K. Stable Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: 3/8 poly Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.86 Depth to Well Bottom: Well Diameter: Screen Length:

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: DP-MW-02 Sample Time: 1300 QA/QC:

Sample Parameters: VOC, SVOC, PCB, PCB Fil/Hand, Pest/Herb Metals

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	7.02	15.30	1.11	8.63	26.2	39	200	4.97
1235	6.97	12.28	1.16	5.36	22.7	25	200	5.25
1240	6.97	17.03	1.17	5.06	25.6	20	200	5.35
1245	6.96	11.96	1.17	2.76	21.4	15	200	5.46
1250	6.96	11.61	1.18	2.31	17.1	-5	200	5.59
1255	6.95	11.59	1.18	2.19	15.7	-10	200	5.70
1300	6.93	11.55	1.18	2.16	15.6	-15	200	5.77
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC (Carrier Syracuse) Site: Debris Pile Well I.D.: MW-03

Date: 4-18-16 Sampling Personnel: Ron Russo JR Company: Arcom

Purging/Sampling Device: GeoPump Tubing Type: _____ Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.5 Depth to Well Bottom: 14.64 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 7.058L (1.86gal) Estimated Purge Volume (liters): 5gal

Sample ID: DP-MW03 Sample Time: 12:37 QA/QC: No

Sample Parameters: _____

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
12:05	6.81	12.82	1.05	9.90	324	103	150	4.02
12:10	6.69	10.23	1.11	0.00	11.6	133	150	4.28
12:15	6.69	9.77	1.12	0	0.9	134	150	4.35
12:20	6.66	9.71	1.13	0	0.0	121	100	4.41
12:25	6.65	9.36	1.13	0	0	115	100	4.45
12:30	6.63	9.48	1.13	0	0	108	100	4.49
12:35	6.63	9.57	1.13	0	0	107	100	4.50
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_y = \pi r^2 h$)

Remarks:

11.44 x 617 = 7,058 mL = 7.058 L

1.86 gallons

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC - Debris Pile Site: Canton Well I.D.: DP-MW-04

Date: 4/18/16 Sampling Personnel: K. Stabb Company:

Purging/Sampling Device: Geo Pump Tubing Type: 3/8 Poly Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 1.70 Depth to Well Bottom: Well Diameter: 2" Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: DP-MW-04 Sample Time: 1130 QA/QC: MS/MSD

Sample Parameters: VOCs Pest / Herb
SVOCs
RCRA 8 metals
PCBs / PCB Filtered

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1100	7.30	15.20	1.20	6.85	29.1	53	200	2.40
1105	7.15	15.09	1.17	5.58	24.0	48	200	2.65
1110	7.12	15.01	1.17	5.09	25.7	34	200	2.76
1115	7.09	14.97	1.15	4.37	22.7	-4	200	2.90
1120	7.07	14.95	1.16	3.80	21.9	-17	200	3.16
1125	7.06	14.99	1.17	3.71	21.6	-26	200	3.24
1130	7.06	15.01	1.17	3.60	20.8	-40	200	3.37
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_f = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC (Carrier - Syracuse) Site: Debris Pile Well I.D.: DP MW-05

Date: 4/18/16 Sampling Personnel: Ron Russo Jr Company: AECOM

Purging/ Sampling Device: Geo Pump Tubing Type: ______ Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.56 Depth to Well Bottom: 13.79 Well Diameter: 2" Screen Length: ______

Casing Type: PVC Volume in 1 Well Casing (liters): 6.3 L (1.66 gal Estimated Purge Volume (liters): 5 gal

---

Sample ID: DP-MW 05 Sample Time: 11:23 QA/QC: DP-041816

Sample Parameters: ______

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP ~~Eh~~ (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
10:50	6.82	8.90	1.14	14.24	301	63	200	4.5
10:55	6.71	8.72	1.19	3.05	360	51	200	4.98
11:00	6.70	8.84	1.19	2.57	417	50	150	5.24
11:05	6.69	9.02	1.20	1.79	469	39	150	5.30
11:10	6.66	9.03	1.22	0.72	302	22	150	5.22
11:15	6.65	9.37	1.21	0.54	299	19	100	5.05
11:20	6.68	9.67	1.26	0.06	215	19	100	4.88
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

10.23 x 617 = 6,311.9 mL = 6.3 L

1,667 gallons

Appendix D

Data Usability Summary Report Narrative

(Appendices available upon request)

DATA USABILITY SUMMARY REPORT

SOUTHEAST DEBRIS/SOIL PILE
UTC/CARRIER SITE
THOMPSON ROAD, SYRACUSE, NY
SITE ID# 734043

Analyses Performed by:

SGS ACCUTEST
MARLBOROUGH, MA

Prepared for:

UNITED TECHNOLOGIES CORP.
UTC SHARED REMEDIATION SERVICES
FARMINGTON, CT

Prepared by:

AECOM
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NY 14202

JUNE 2016

TABLE OF CONTENTS

TABLES

(Following Text)

ATTACHMENTS

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation*, Appendix 2B - *Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The data being evaluated are from the April 5 - 18, 2016 sampling of 100 soil samples, 5 field duplicates, 5 Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs, 5 groundwater samples, 1 groundwater field duplicate, 1 groundwater MS/MSD pair, 3 equipment rinsate blanks, and 1 trip blank. All samples were sent to SGS Accutest located in Marlborough, MA and were analyzed for target compound list (TCL) volatile organic compounds (VOCs) plus Tentatively Identified Compounds (TICs) following United States Environmental Protection Agency (USEPA) Method 8260C, TCL semivolatile organic compounds (SVOCs) plus TICs following USEPA Method SW8270D; TCL pesticides following USEPA Method 8081B; TCL PCBs (total and dissolved) following USEPA Method 8082A; herbicides following USEPA method 8181; and RCRA metals following USEPA Method 6010C/7470A/7471B. Not all samples were analyzed for all parameters.

A limited data validation was performed following the guidelines in the following USEPA Region II documents:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B,* SOP HW-24, Rev. 2, August 2008;
- *Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8270D,* SOP HW-22, Rev. 4, August 2008;
- *Polychlorinated Biphenyl (PCB) Aroclor Data Validation,* SOP HW-37, Rev. 3, May 2013;
- *Validating Chlorinated Herbicides GC, SW-846, Method 8151A,* SOP HW-37, Rev. 3, May 2013;

- *Validating Organochlorine Pesticides By Gas Chromatography, SW-846 Method 8081B*, SOP HW-44, Rev. 1, October 2006;
- *ICP-AES Data Validation*, SOP HW-2a, Rev. 15, December 2012; and
- *Mercury and Cyanide Data Validation*, SOP HW-2c, Rev. 15, December 2012.

Qualifications applied to the data during the limited data validation include 'R' (rejected), 'J' (estimated concentration), 'NJ' (tentatively identified, estimated concentration), 'U' (non-detect), and 'UJ' (estimated quantitation limit). Definitions of USEPA data qualifiers are presented at the end of this text. The validated analytical results are presented on Tables 1 – 5. Copies of marked-up laboratory analytical summaries (Form 1s) are presented in Attachment A on a per sample delivery group (SDG) basis. Documentation supporting the qualification of data is presented in Attachment B on a per sample delivery group basis. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC Category B or equivalent) were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody (COC), except for the following instances.

- The COC incorrectly listed sample DP-SB-06 (6-12) as being collected on 4/6/16 but this sample was not received by the laboratory. This sample was actually collected and submitted under a later COC.

All samples were analyzed within the required holding times, except for the following instance:

- The initial VOC analysis of sample DP-SE-04 occurred within the holding time, however it fell outside of the 12 hr. tuning window. The laboratory re-analyzed the sample outside of the holding time. The results of the re-analysis have been reported and all compounds qualified 'UJ'.

V. NON-CONFORMANCES

- **Surrogates**

  The %R of VOC surrogate bromofluorobenzene and/or dibromofluoromethane was above the upper QC limit in some of the samples. The detected VOC results in the associated samples as listed on the surrogate recovery summary form were qualified 'J'.

  The %R of pesticide surrogate dichlorobiphenyl (DCB) was greater than the QC limit on both columns for sample DP-SB-08 (0-2). The detected pesticide results for this sample have been qualified 'J'.

  Support documentation (i.e., surrogate recovery summary form) is presented in Appendix B.

- **Instrument Calibration**

  The relative response factors (RRF) for acetone in the initial calibration (ICAL) and continuing calibration standards (CCAL) were below the QC limit of 0.100. The results for this compound in the associated samples as listed on the instrument performance check forms were qualified 'R'.

  The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCALs associated with the samples exceeded the QC limit of 20% for one or more of the following VOCs: 2-butanone, 1,1-dichloroethene, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,1,1,-trichloroethane, acetone, carbon disulfide, carbon tetrachloride, chloroethane, chloromethane, dibromochloromethane, and/or vinyl chloride. The results for these compounds in the associated samples as listed on the instrument performance check forms were qualified 'J' or 'UJ'.

  The %D between the ICAL RRF and the RRF in one or more of the CCAL standards associated with the samples exceeded the QC limit of 20% for one or more of the following SVOCs: 3,3'-dimethylbenzidine, 2,4-dinitrophenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, 4,6-dinitro-2-methylphenol, 2-nitrophenol, 2,4-dinitrotoluene, 2-nitroaniline, 4-nitroaniline, 2-nitrophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, benzo(g,h,i)perylene, bis(2-chloroisopropyl)ether, dibenzo(a,h)anthracene, hexachlorocyclopentadiene, indeno(1,2,3-cd)pyrene, and/or pentachlorophenol. The results for these compounds in the associated samples as listed on the instrument performance check forms were qualified 'J' or 'UJ'.

The % breakdown of pesticide 4,4'-DDT exceeded 20% in the breakdown check sample on both the primary and confirmation columns. The non-detect result for 4,4'-DDT in associated sample DP-SB-05 (12-24) was qualified 'R' and the detected results for 4,4'-DDD and 4,4'-DDE were qualified 'NJ'. The non-detect results for 4,4'-DDT in associated samples DP-SB-01 (0-2) and DP-SB-16 (2-12) DUP were qualified 'R' and the detected results for 4,4'-DDE were qualified 'NJ'.

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards associated with the samples in SDG# MC45289, SDG MC45238, and SDG MC45205 exceeded the QC limit of 20% for pesticides alpha-BHC, alpha-chloradane, gamma-BHC, delta-BHC, dieldrin, endrin, endrin aldehyde, endrin ketone, endosulfan I, endosulfan II, endosulfan sulfate, 4,4-DDE, 4,4-DDT, and/or methoxychlor. The results for the associated samples have been qualified 'J' or 'UJ'.

Support documentation (i.e., instrument performance check form, continuing calibration summary form, DDT/Endrin Breakdown Check form, GC analysis log) is provided in Attachment B.

- **Matrix Spikes/Matrix Duplicates (MS/MD)**

  The metals MS/MSD performed on sample DP-SB-16 (0-2) was above QC limits (i.e., > 125%) for barium (Ba) and below the QC limits (i.e., < 75%) for chromium (Cr). The post digestion spike was acceptable. The results for the above reference metals in this sample have been qualified 'J'.

  Support documentation (i.e., Matrix Spike and Duplicate Results Summary form) is provided in Attachment B.

- **Matrix Spike Blanks (MSB)**

  The VOC MSB was above the QC limit for acetone. The detected results for this compound in the associated samples as listed on the blank spike summary form have been qualified 'J'.

  Support documentation (i.e., Blank Spike/Blank Spike Duplicate Summary form) is provided in Attachment B.

- **Method Blanks**

  VOCs methylene chloride and/or toluene were detected below the reporting limit (RL) in the laboratory method blanks associated with the samples. Those associated samples that had concentrations of this compound less than the RL were qualified 'U' at the RL.

  SVOCs benzo(a,h)anthracene, benzo(g,h,i)perylene, di-n-butyl phthalate, and/or indeno(1,2,3-cd)pyrene were detected below the RL in the laboratory method blanks associated with the samples. Those associated samples that had concentrations of this compound less than the RL were qualified 'U' at the RL.

  Herbicide 2,4-D was detected below the RL in the laboratory method blanks associated with the samples. Those associated samples that had concentrations of this compound less than the RL were qualified 'U' at the RL.

  Support documentation (i.e., method blank summary form, report of analysis form) is provided in Attachment B.

- **Equipment Rinsate Blanks (EB)**

  VOC methylene chloride was detected below the QL in the EB associated with the samples. Those associated samples that had concentrations of this compound less than the RL were qualified 'U' at the RL.

- **Internal Standards (VOCs and SVOCs only)**

  The %Rs of VOC internal standards (IS) pentafluorobenzene, 1,4-difluorobenzene, chlorobenzene-d_5, and/or 1,4-dichlorobenzene-d_4 were below QC limits in the samples. The compounds associated with the IS outliers in the samples listed on the internal standard area summary form have been qualified 'J' or 'UJ'.

- **Chromatography**

  The laboratory noted in the case narrative that some samples exhibited interference due to multiple aroclors being present with overlapping peaks. Those samples that are affected have been noted in the laboratory case narrative and on the Form Is. The affected aroclors have been qualified 'J' in accordance with the labs notation.

The %Ds between the dual-column analyses for the samples exceeded QC limits (>25%) for one or more pesticides/PCBs. The pesticides/PCB results for the affected samples have been qualified 'J', 'NJ', 'U', or 'R' in accordance with the following validation guidelines.

% Difference	Qualifier
0-25%	none
26-100%	'J'
101-200% (interference detected)	'NJ'
>50% (value is < QL on both columns)	'U'
>200%	'R'

Support documentation (i.e., GC Identification Summary forms) is provided in Attachment B.

- **Field Duplicates**

Field duplicates were collected at the following sample locations and exhibited good field and analytical precision with the exceptions noted below:

Parent Sample ID	Field Duplicate ID	RPD > 50% (Both Samples Qualified 'J' or 'UJ'
DP-MW05	DP-FD-041816	----
DP-SB-10 (12-24)	DP-SB-10 (12-24) DUP	----
DP-SB-13 (12-24)	DP-SB-13 (12-24) DUP	----
DP-SB-17 (12-24)	DP-SB-17 (12-24) DUP	VOCs: Acetone, Benzene, Carbon Disulfide, and Toluene
		SVOCs: Acenapththene, acenaphthylene, anthracene, benzo(k)fluoranthene, butyl benzyl phthalate, dibenzofuran, bis(2-ethylhexyl)phthalate, fluorene, and naphthalene
DP-SB-16 (2-12)	DP-SB-16 (2-12) DUP	Metals: Chromium
DP-SB-16 (6-12)	DP-SB-16 (6-12) DUP	----

VI. SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume, moisture content, and dilution factors. Results below the quantitation limits were qualified 'J' by the laboratory. All quantitation limits were reported in accordance with method requirements and were adjusted for dilution factors.

Several samples required dilutions due to the nature of the sample matrix and/or high levels to target compounds. Those results reported from a secondary dilutions were qualified 'D'. The quantitation limits reported for the non-detect compounds are the lowest achievable at the diluted level.

For TICs (VOC and SVOC only), some compounds were identified as "column artifacts/column bleed (i.e., siloxanes)", method blank contamination, and target compounds reported in the wrong fraction (i.e., a VOC reported as a TIC in the SVOC fraction). TICs identified as such were crossed out on the Form I and should be disregarded.

The concentrations of VOC acetone in samples DP-SB-15(0-6) and DP-SB-19 (0-6) were greater than the calibration curve and were qualified 'E'. The samples were not analyzed at a dilution. The 'E' qualifier has been changed to 'J' by the data validator.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'R' are considered unusable. Those results qualified 'J', 'U', 'NJ', and 'UJ' are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date:**

Reviewed By: George E. Kisluk, Senior Chemist **Date:**

DEFINITIONS OF USEPA DATA QUALIFIERS

U –	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J –	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
(J+) -	The result is an estimated quantity. The associated numerical value is biased high.
(J-) -	The result is an estimated quantity. The associated numerical value is biased low.
UJ –	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R –	The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
D –	The sample result was reported from a secondary dilution analysis.
NJ –	The analysis indicates the presence of an analyte that has been “tentatively identified´ and the associated numerical value represents its approximate concentration.

Appendix E

Average Exposure Point SVOC Concentrations Calculations

UTC/Carrier Debris Pile Averge Exposure Concentration Calculations

Location ID		DP-SB-01	DP-SB-02	DP-SB-03	DP-SB-04	DP-SB-05	DP-SB-06	DP-SB-07	DP-SB-08	DP-SB-09	DP-SB-10	DP-SB-11	DP-SB-12	DP-SB-13	DP-SB-14	DP-SB-15	DP-SB-16	DP-SB-17	DP-SB-18	DP-SB-19	
Sample ID		DP-SB-01(0-2)	DP-SB-02(0-2)	DP-SB-03(0-2)	DP-SB-04(0-2)	DP-SB-05(0-2)	DP-SB-06(0-2)	DP-SB-07(0-2)	DP-SB-08(0-2)	DP-SB-09(0-2)	DP-SB-10(0-2)	DP-SB-11(0-2)	DP-SB-12(0-2)	DP-SB-13(0-2)	DP-SB-14(0-2)	DP-SB-15(0-2)	DP-SB-16(0-2)	DP-SB-17(0-2)	DP-SB-18(0-2)	DP-SB-19(0-2)	
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Depth Interval (ft)		0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	
Date Sampled		04/05/16	04/05/16	04/05/16	04/05/16	04/05/16	04/06/16	04/06/16	04/07/16	04/07/16	04/06/16	04/06/16	04/06/16	04/07/16	04/06/16	04/06/16	04/05/16	04/07/16	04/07/16	04/07/16	
Parameter	Units																				
Semivolatile Organic Compounds																					AVERAGE
Benzo(a)anthracene	UG/KG	327	558	184	743	988	161	65.6	125	11,900	208	190	131	161	1,940	1,200	2,930	596	132	21.3	1187
Benzo(a)pyrene	UG/KG	432	526	198	894	865	134	78.1	200	9,720	204	248	145	241	1,820	1,100	4,020	648	150	22.7	1139
Benzo(b)fluoranthene	UG/KG	466	450	206	954	725	135	70.9	200	10,500	179	291	158	246	1,990	1,070	4,390	603	168	19	1201
Benzo(k)fluoranthene	UG/KG	364	482	154	761	750	104	60.2	96.3	9,450	166	233	119	121	1,480	945	3,350	528	106	20.7	1015
Chrysene	UG/KG	384	536	208	847	924	148	67.1	127	12,500	226	254	147	166	2,220	1,360	3,860	618	162	23.6	1304
Dibenz(a,h)anthracene	UG/KG	285	60	75	110	305	29.8	4.65	4.65	2,000	24.5	66.5	35.4	183	426	200	1100	237	32	5.5	273
Fluoranthene	UG/KG	611	1,090	404	1,620	2,130	400	104	245	29,900	461	457	282	407	5,040	2,400	7,340	1,120	287	43.4	2860
Indeno(1,2,3-cd)pyrene	UG/KG	285	139	75	360	305	75	46.9	267	6,800	85	217	101	328	1,140	628	1670	615	95.8	18	697
Phenanthrene	UG/KG	216	692	187	617	1,510	384	69.4	141	20,800	302	161	131	290	3,770	1,350	2430	447	117	20.8	1770
Pyrene	UG/KG	475	982	374	1,210	1,570	320	96.2	220	23,200	367	343	210	326	3,780	1,930	5630	1,020	232	35.9	2227

Location ID		DP-SB-01	DP-SB-02	DP-SB-03	DP-SB-04	DP-SB-05	DP-SB-06	DP-SB-07	DP-SB-08	DP-SB-09	DP-SB-10	DP-SB-11	DP-SB-12	DP-SB-13	DP-SB-14	DP-SB-15	DP-SB-16	DP-SB-17	DP-SB-18	DP-SB-19	
Sample ID		DP-SB-01(2-12)	DP-SB-02(2-12)	DP-SB-03(2-12)	DP-SB-04(2-12)	DP-SB-05(2-12)	DP-SB-06(2-12)	DP-SB-07(2-12)	DP-SB-08(2-12)	DP-SB-09(2-12)	DP-SB-10(2-12)	DP-SB-11(2-12)	DP-SB-12(2-12)	DP-SB-13(2-12)	DP-SB-14(2-12)	DP-SB-15(2-12)	DP-SB-16(2-12)	DP-SB-17(2-12)	DP-SB-18(2-12)	DP-SB-19(2-12)	
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Depth Interval (ft)		0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	0.2-1.0	
Date Sampled		04/05/16	04/05/16	04/05/16	04/05/16	04/05/16	04/06/16	04/06/16	04/07/16	04/07/16	04/06/16	04/06/16	04/06/16	04/07/16	04/06/16	04/06/16	04/05/16	04/07/16	04/07/16	04/07/16	
Parameter	Units																				
Semivolatile Organic Compounds																					AVERAGE
Benzo(a)anthracene	UG/KG	300	382	82.4	260	171	1,410	49.4	202	126,000	277	174	81.1	285	321	79,600	252	1,490	182	26.1	11134
Benzo(a)pyrene	UG/KG	406	348	84.1	225	142	1,220	44.5	274	101,000	268	219	94.4	317	335	65,100	346	1,480	222	25.8	9061
Benzo(b)fluoranthene	UG/KG	433	338	76.1	300	116	1,110	41.1	249	117,000	265	227	117	334	333	66,100	339	1,360	212	29.5	9946
Benzo(k)fluoranthene	UG/KG	366	312	71.2	355	130	917	36.9	158	91,600	202	168	68.8	212	308	45,500	145	1,230	170	8	7471
Chrysene	UG/KG	340	376	91.3	205	162	1,490	50.5	193	133,000	298	204	102	286	379	82,100	280	1,500	223	28.3	11648
Dibenz(a,h)anthracene	UG/KG	265	60	75	215	70	234	4.9	156	22,000	57.1	58.5	4.4	181	82.6	13,300	85	325	51.4	4.7	1959
Fluoranthene	UG/KG	538	835	183	240	386	3,890	105	403	311,000	627	256	154	689	815	133,000	494	2,780	343	47.1	24041
Indeno(1,2,3-cd)pyrene	UG/KG	265	85.5	75	750	70	654	16.5	303	66,700	153	161	72.2	357	232	27,300	290	1,020	143	16	5193
Phenanthrene	UG/KG	191	533	89.7	195	302	4,200	80.6	271	216,000	442	90.8	63.8	454	510	67,600	80	1,220	132	22	15394
Pyrene	UG/KG	416	648	149	255	337	2,740	81.7	349	238,000	534	203	130	551	670	110,000	409	2,550	294	42.3	18861

Location ID		DP-SB-01	DP-SB-02	DP-SB-03	DP-SB-04	DP-SB-05	DP-SB-06	DP-SB-07	DP-SB-08	DP-SB-09	DP-SB-10	DP-SB-11	DP-SB-12	DP-SB-13	DP-SB-14	DP-SB-15	DP-SB-16	DP-SB-17	DP-SB-18	DP-SB-19	
Sample ID		DP-SB-01(12-24)	DP-SB-02(12-24)	DP-SB-03(12-24)	DP-SB-04(12-24)	DP-SB-05(12-24)	DP-SB-06(12-24)	DP-SB-07(12-24)	DP-SB-08(12-24)	DP-SB-09(12-24)	DP-SB-10(12-24)	DP-SB-11(12-24)	DP-SB-12(12-24)	DP-SB-13(12-24)	DP-SB-14(12-24)	DP-SB-15(12-24)	DP-SB-16(12-24)	DP-SB-17(12-24)	DP-SB-18(12-24)	DP-SB-19(12-24)	
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Depth Interval (ft)		1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	1.0-2.0	
Date Sampled		04/05/16	04/05/16	04/05/16	04/05/16	04/05/16	04/06/16	04/06/16	04/07/16	04/07/16	04/06/16	04/06/16	04/06/16	04/07/16	04/06/16	04/06/16	04/05/16	04/07/16	04/07/16	04/07/16	
Parameter	Units																				
Semivolatile Organic Compounds																					AVERAGE
Benzo(a)anthracene	UG/KG	5.5	64.5	6	207	391	209	61.1	1,120	3,930	35	31.2	6	19.7	17.2	41.4	2,040	2,560	84.2	101	575
Benzo(a)pyrene	UG/KG	4.45	70.8	5	172	351	207	49.3	908	3,150	35.6	36	5.5	120	15.1	46.4	2,660	2,140	112	110	537
Benzo(b)fluoranthene	UG/KG	6.5	60.7	7	143	325	180	53.8	762	3,360	32.5	43.7	7	122	17.5	54.7	2,760	1,930	97.4	97.5	529
Benzo(k)fluoranthene	UG/KG	8	60.7	8	161	342	80	38.8	718	3,000	28.9	27.9	8.5	17	8	28.9	2,210	1,900	79.5	85.3	464
Chrysene	UG/KG	4.5	78.7	4.7	180	384	214	62.2	1,020	4,100	38.3	37	4.85	23.5	17.6	56.4	2,550	2,370	106	108	598
Dibenz(a,h)anthracene	UG/KG	4.75	60	5	60	60	47	4.6	254	698	5	4.65	5	4.8	4.95	5.5	600	469	28.5	4.75	122
Fluoranthene	UG/KG	5.5	140	5.5	441	845	405	112	2,210	10,300	75.8	55.3	5.5	47	31.9	96.8	4,810	4,600	151	209	1292
Indeno(1,2,3-cd)pyrene	UG/KG	16	60	17	60	100	160	32.5	634	1,980	17.5	32.5	17.5	218	16.5	18.5	870	1,300	83.5	71.4	300
Phenanthrene	UG/KG	4.3	73.3	4.55	391	595	283	68.4	1,720	7,180	44.6	24.8	4.65	25.8	4.5	53.7	1560	2,530	51.1	107	775
Pyrene	UG/KG	5.5	129	6	351	688	342	92.3	1,910	7,590	55.1	47.1	6	39.5	22.6	77.4	3,690	4,120	122	193	1026

Parameter	Units	Industrial SCOs	Interval		
			0- to 0.2-ft	0.2- to 1-ft	1- to 2-ft
Benzo(a)anthracene	UG/KG	11000	1187	**11134**	575
Benzo(a)pyrene	UG/KG	1100	**1139**	**9061**	537
Benzo(b)fluoranthene	UG/KG	11000	1201	9946	529
Benzo(k)fluoranthene	UG/KG	110000	1015	7471	464
Chrysene	UG/KG	110000	1304	11648	598
Dibenz(a,h)anthracene	UG/KG	1100	273	**1959**	122
Fluoranthene	UG/KG	1000000	2860	24041	1292
Indeno(1,2,3-cd)pyrene	UG/KG	11000	697	5193	300
Phenanthrene	UG/KG	1000000	1770	15394	775
Pyrene	UG/KG	1000000	2227	18861	1026

Notes:
Average Exposure Point Concentrations based on 11 samples
Bold and shading indicates the average exceeds the SCO