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9 April 2013

Mr. David Gardner
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7017

RE: Remedial Investigation (First Phase) Letter Report
Contract/WA No: D007624-10
Site/Spill No/Pin: Lackawanna Incinerator Site, Lackawanna, New York (915206)

Dear Mr. Gardner:

This letter presents the key findings of the remedial investigation (RI) activities conducted to date at the Lackawanna Incinerator site (915206) located in the City of Lackawanna, New York (Figure 1). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) are conducting a Remedial Investigation/Feasibility Study (RI/FS) as per the New York State Department of Environmental Conservation (NYSDEC) RI/FS Scope of Work (NYSDEC 2012)[1] and Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (NYSDEC 2010)[2]. A site-specific Work Plan (EA 2012)[3] was developed based on the NYSDEC RI/FS Scope of Work, which in conjunction with EA's Generic Field Activities Plan (FAP) (EA 2011)[4] provides the basis for conducting the RI field activities at the site.

INTRODUCTION

This letter report summarizes the RI (First Phase) activities completed to date and proposes supplemental field investigations to be conducted during the RI (Second Phase), as needed to meet the objectives of the RI. Following completion of the remaining RI activities, a RI Report will be prepared to present the data obtained during both RI phases, demonstrate the nature and extent of site-related constituents, evaluate the fate and transport of site-related constituents, and provide a refined conceptual site model that will serve as the framework for the FS.

An overview of the site background is included below, followed by a description of field activities, a summary of investigation results, and recommendations.

[1] NYSDEC. 2012. Work Assignment Issuance/Notice to Proceed. 14 June.
[2] NYSDEC. 2010. DER-10 Technical Guidance for Site Investigation and Remediation. May.
[3] EA. 2012. Work Plan, Lackawanna Incinerator Site (915206), Lackawanna, New York. October.
[4] EA. 2011. Generic Field Activities Plan NYSDEC Standby Contract D007624. April.

SITE BACKGROUND

The Lackawanna Incinerator site is listed as a Class "2" site in the State Registry of Inactive Hazardous Waste Sites (State Superfund), meaning that the site represents a significant threat to public health or the environment, and that action is required. The property is situated on an approximately 1.57-acre city-owned parcel, located along South Park Avenue in the City of Lackawanna, Erie County, New York (Figure 2). The site includes two brick multi-story buildings and associated chimneys that housed municipal solid waste incinerators: the southern building and the northern building. The property is bounded to the west by Veterans' Stadium, to the south by the Department of Public Works, to the east by a vacant lot owned by Baker Hall Victory Services, and to the north by a paved walking path open to the public that runs along the southern bank of Smokes Creek (north branch). Numerous single-family residential properties are located south and southwest of the site, while Holy Cross Cemetery is located to north of Smokes Creek.

Operations at the site began in 1927 at the building in the southeastern portion of the site (southern incinerator). In 1950, operations shifted to a newly constructed (northern) incinerator, which was built into the face of a ramp for dump truck traffic. Ramp materials initially included incinerator ash-contaminated soil and steel foundry slag. Over time the ramp was widened to the east and west through the addition of street sweepings and discarded refractory brick from the incinerator chimneys obtained from routine repair and maintenance activities. Operation of the northern incinerator ceased in 1980. The incinerators were primarily used to burn municipal trash, although some medical waste from Our Lady of Victory Hospital was intermittently burned.

The current primary use of the site is for materials staging, and an equipment and vehicle storage area for the City Department of Public Works, with the adjacent Office of Sanitation housed across Reddon Street to the south. The City of Lackawanna Department of Buildings and Codes condemned the southern incinerator in 2012, due in part to brick failure on the building and incinerator stack. The first floor of the northern incinerator is used by the City Animal Control Officer for the temporary caging of animals. The second floor contains the intact incinerator equipment for two incinerator trains, in addition to some automotive parts and scrap metal. The third floor currently contains truck parts and automotive repair tools. Various chemicals and cleaners are stored throughout the northern building.

ENVIRONMENTAL SETTING

Elevations of the site range from approximately 590 to 615 ft above mean sea level (AMSL) (Figure 3), with elevations of the ramp ranging from about 593 to 615 ft AMSL. The natural grade at the site, prior to ramp construction, would have been generally level with elevations ranging from about 590 to 593 ft AMSL. The nearest surface water feature is Smokes Creek, which is adjacent to the northern boundary of the site. Smokes Creek is channelized near the site and flows west approximately 2.7 mi downstream to Lake Erie.

Surface water drainage at the site flows radially from the elevated fill ramp to drainage ditches and two stormwater catch basins, which drain northward into Smokes Creek. Stormwater from the catch basins appears to be associated with two outfall pipes along Smokes Creek. A third outfall was observed along Smokes Creek, to the north of the adjacent Baker Hall property. Historically, the incinerators were quenched with water after a batch-combustion took place. The associated wastewater reportedly ran into a drain system, potentially entering the storm sewer network and eventually Smokes Creek.

The site geology is characterized as fill material underlain by glaciolacustrine deposits of fine-grained silt and clay. Fill materials, ranging in thickness from not present to greater than 20 ft, consisted of reworked silty clay intermixed with varying amounts of slag and gravel, as well as trace amounts of glass, cinders, brick, and ash. Shale bedrock is anticipated to be present at approximately 50 ft below ground surface (bgs) (Malcolm Pirnie, 2005)[5].

Shallow groundwater flow at the site is generally to the north toward Smokes Creek. The local water table exists within the overburden from 586 to 589 ft AMSL (6–10 ft bgs, excluding the area of the fill mound). In the ramp area, groundwater may be present in perched zones and would be anticipated to flow radially (Malcolm Pirnie, 2005)[5].

PREVIOUS INVESTIGATIONS

In April 2005, Malcolm Pirnie conducted an investigation intended to serve as the initial step of a Site Investigation/Remedial Alternatives Report[5], in accordance with the EPA Brownfields Assessment Program. Specifically, the purpose of this field sampling was to determine the level of overall chemical contamination and environmental conditions at the site. As shown on Figure 4 and described in the work plan, a total of three sediment samples, three incinerator ash samples from the basement of the southern incinerator building, and seven subsurface soil/fill samples were collected to characterize the physical and chemical conditions of the materials at the site. Three shallow groundwater monitoring wells (MW-01, MW-02, and MW-03) were also installed and sampled. Building assessment activities included 14 lead-based paint and 15 asbestos sampling locations within the former incinerator buildings. The investigation results indicated the presence of high levels of heavy metals in the incinerator ash, elevated metals and polycyclic aromatic hydrocarbons (PAHs) in soil/fill at the site, a limited area of potentially site-related metals impacts to sediment at a stormwater outfall, and the presence of asbestos-containing building materials.

REMEDIAL INVESTIGATION FIELD ACTIVITIES

This section summarizes the RI field activities completed to date. The field sampling procedures and protocols, number of environmental samples to be collected from each media, as well as the quality assurance/quality control procedures, were specified in the site-specific Quality Assurance Project Plan (QAPP) Addendum (EA 2012)[1]. Field investigation activities and

[5] Malcolm Pirnie, Inc. 2005. Draft Site Investigation/Remedial Alternatives Report, Former Incinerator Site, Lackawanna, New York, November 2005.

sampling procedures were conducted in a manner consistent with EA Generic Health and Safety Plan (HASP) (EA 2006a)[6] and FAP (EA 2011)[4] developed for Work Authorizations conducted under Standby Contract D007624, and the associated site-specific Addenda.

The following RI field activities were completed from October to November 2012:

- Pre-investigation field activities including utility clearance through Dig Safely New York, a geophysical evaluation by NOVA Geophysical Services (NOVA), and base mapping by a NYS-licensed surveyor from Popli Design Group (Popli)
- Collection of nine sediment samples and two stormwater samples
- Collection of 16 surface soil samples
- Completion of 13 direct-push and 8 hollow-stem auger soil borings by GeoLogic NY, Inc.
- Collection of 99 soil samples
- Installation and collection of groundwater samples from seven monitoring wells
- Site survey to obtain coordinates of sampling locations.

Table 1 summarizes the field sampling and laboratory analyses performed to date. Following receipt of laboratory results, data validation and a determination of usability was conducted by an independent third-party (Data Validation Services). Field activities, including evaluation of indoor air and potential soil vapor intrusion, were completed during the week of March 10, 2013. A second groundwater sampling event is scheduled for March-April 2013.

Subsurface Investigation

A total of 13 direct-push soil borings (SB-05 through SB-10, and SB-12 through SB-18) were advanced to depths of 8–28 ft bgs from October 25 to 26, 2012 using a track-mounted Geoprobe® (Figure 5). One additional soil boring (SB-11) was installed on November 16, 2012 during the hollow-stem auger drilling program. A total of seven monitoring well boreholes (MW-02A, MW-03A, and MW-04 to MW-08) were installed to depths of 27–30 ft bgs from October 29 to November 6, 2012 using 4.25-in. inner diameter hollow-stem augers. Subsurface boring logs are provided as Attachment A.

Monitoring wells were installed at each of the seven monitoring well borings (Figure 5). Each 2-in. diameter monitoring well was constructed with a 10-ft long, 0.01-in. slot well screen and the appropriate length of schedule 40 polyvinyl chloride flush-joint casing to ground surface.

[6] EA. 2006a. Generic Health and Safety Plan for Work Assignments. June.

Monitoring wells were completed with an at-grade curb box or above-grade protective casing, dependent on their site location. A cement pad was installed to channel surface water away from the well. Well construction details are summarized in Table 2.

Development of each newly installed monitoring well was performed from November 7 to 8, 2012 using surging and pumping techniques. Due to the fine-grained nature of the subsurface materials, development was considered complete when the groundwater temperature, conductivity, and pH in the well stabilized and a turbidity of less than 50 nephelometric turbidity units was achieved, or until no further improvement was noted.

EVALUATION OF ENVIRONMENTAL MEDIA

EA obtained on-site surface and subsurface samples, groundwater, sediment, and storm sewer outfall samples as summarized in Table 1.

Samples were placed in appropriate sample containers, sealed, packed on ice, and submitted under standard chain of custody to Chemtech Consulting Group or Hampton-Clarke Veritech, both Environmental Laboratory Approval Program-certified laboratories, for chemical analysis. The samples were labeled, handled, and packaged following the procedures described in the Generic QAPP (EA 2006b)[7] and QAPP Addendum (EA 2012)[1]. Quality assurance/quality control samples were collected at the frequency detailed in the Generic QAPP, QAPP Addendum, and Table 1 of the QAPP Addendum.

Surface and Subsurface Soil Sampling

Sixteen surface soil samples (SS-01, SS-02, and SS-05 through SS-18) were collected throughout the on-site and adjacent off-site areas (Figure 5). Soil samples SS-03 and SS-04 were reserved for the Second Phase RI, to be conducted in March-April 2013. Fourteen of these samples (SS-05 through SS-18) were co-located with direct-push soil boring sampling locations (SB-05 through SB-18) and collected prior to drilling. Three sampling locations were in the stadium field west of the site (SS-05 through SS-07), 3 were on the property east of the site (SS-08, SS-09, and SS-10), and 12 locations were on-site (SS-01, SS-02, and SS-11 through SS-18).

Subsurface soil samples were collected at 21 locations (SB-05 to SB-18 and MW-02A, MW-03A, and MW-04 to MW-08) (Figure 5). Subsurface soil samples were continuously collected for laboratory analysis, generally in 2-ft intervals, to the extent practicable. Sampling intervals were adjusted to accommodate observed sample variation (for example, where more than one geological material existed), or to target the most contaminated portion of the interval based upon photoionization detector readings and/or visual and olfactory evidence.

Surface and subsurface soil samples were submitted Chemtech Consulting Group or Hampton Clarke Veritech as follows:

[7] EA. 2006b. Generic Quality Assurance Project Plan for Work Assignments. Revised October.

- 16 surface soil samples submitted for analysis of the full list of constituents (target compound list [TCL] semivolatile organic compounds (SVOCs) by U.S. Environmental Protection Agency (EPA) Method 8270C, TCL volatile organic compounds (VOCs) by EPA Method 8260B, target analyte list (TAL) metals and mercury by EPA Method 6010B/7470A/7471A, TCL pesticides by EPA Method 8081A, TCL polychlorinated biphenyls (PCBs) by EPA Method 8082, and cyanide by EPA Method 9010B) in accordance with the NYSDEC Analytical Services Protocol (ASP).

- 99 subsurface soil samples submitted for analysis of TAL metals and mercury by EPA Method 6010B / 7470A / 7471A and TCL SVOCs by EPA Method 8270C

- 20 subsurface soil samples submitted for analysis of TCL VOCs by EPA Method 8260B, TCL pesticides by EPA Method 8081A, TCL PCBs by EPA Method 8082, and cyanide by EPA Method 9010B.

Groundwater Sampling

Groundwater samples were collected from the seven on-site monitoring wells from November 28 to 29, 2012 (Figure 5) using low-flow sampling techniques. Due to the fine-grained nature of formation and monitoring well construction, turbidity did not drop below the 50 nephelometric turbidity unit goal at wells MW-04, MW-06, and MW-08. Groundwater samples from these locations were filtered in the lab.

Following purging, groundwater samples were collected from each monitoring well and samples were submitted to Chemtech for analysis of TCL VOCs by EPA Method 8260B, TCL SVOCs by EPA Method 8270C, TAL metals and mercury by EPA Method 6010B/7470A/7471A, pesticides by EPA Method 8081A, TCL PCBs by EPA Method 8082, cyanide by EPA method 9010B, and the following monitored natural attenuation parameters:

- Biological oxygen demand by Method SM5210B
- Chemical oxygen demand by Method 5220D
- Alkalinity by Method SM2320B
- Chloride, nitrate, nitrite, and sulfate by EPA Method 300
- Sulfide by Method SM4500.

Sediment Sampling

A total of nine sediment samples were collected on October 18, 2012 (Figure 5), with two sediment samples (SD-03A and SD-04) collected at stormwater outfalls leading to Smokes Creek, six samples collected from three transect sampling locations within Smokes Creek (SD-05A/B, SD-06A/B, and SD-07A/B), and one sample collected from within the floodplain of Smokes Creek (SD-06FP). One additional sediment sample (SD-03) was collected from a third outfall located near the northeast corner of the site on October 26, 2012.

Sediment samples were submitted to Chemtech for laboratory analysis of TAL metals and mercury by EPA Method 6010B/7470A/7471A, TCL VOCs by EPA Method 8260B, TCL SVOCs by EPA Method 8270C, TCL pesticides by EPA Method 8081A, TCL PCBs by EPA Method 8082, and total organic carbon by Lloyd Kahn Method in accordance with the NYSDEC ASP.

Stormwater Outfall Samples

Two stormwater outfall samples (SW-03 and SW-04) were collected from stormwater outfalls leading from the site to Smokes Creek on November 7, 2012 and were co-located with sediment samples SD-03 and SD-04 (Figure 5). Stormwater outfall samples were submitted to Chemtech for analysis for TAL metals and mercury by EPA Method 6010B/7470A/7471A, TCL VOCs by EPA Method 8260B, TCL SVOCs by EPA Method 8270C, TCL pesticides by EPA Method 8081A, TCL PCBs by EPA Method 8082 in accordance with the NYSDEC ASP.

SITE SURVEY

Surface soil sample locations, soil boring locations, monitoring well locations, and sediment and storm sewer outfall sampling locations were surveyed on November 7-8, 2012 in order to complete the site survey and expand upon the initial base map and survey activities.

DATA VALIDATION / DETERMINATION OF USABILITY

Upon receipt of the analytical laboratory reports, EA submitted the data to Data Validation Services, which verified the qualitative and quantitative reliability of the data as the laboratory provided it and then performed a detailed quality assurance review. Based upon the results of the data review, Data Validation Services prepared detailed Data Usability Summary Reports / data validation summary reports. Data Usability Summary Reports will be submitted to NYSDEC as part of the RI report.

GEOLOGY / HYDROGEOLOGY RESULTS

Site Geology

Geological information of the subsurface at the Lackawanna Incinerator site was gathered from the installation of soil and monitoring well borings. Geologic cross sections were constructed across the site to illustrate the subsurface conditions and the amount of fill material located at the site. Cross section baselines are presented in Figure 6. Cross section A-A' (Figure 7) illustrates a cross section from south to north in the eastern portion of the site, including up the ramp leading to the northern incinerator. Cross section B-B' (Figure 8) cuts the site from the southwestern edge (soil boring SB-07) to the northeastern edge (soil boring SB-08).

Fill material was generally present at grade across the site with varying depths, with historic fill materials associated with the former incinerator operations located primarily in the ramp area. No fill was present in borings SB-05 and SB-06, to the west of the site, SB-09 and SB-10 to the east of the site, and in SB-14 along the northeastern boundary of the site. Fill at the majority of the site ranged from 1- to 4-ft thick. In the ramp area, historic fill thickness ranged from approximately 14 ft (SB-11) to 23 ft (SB-13). Fill in the northern portion of the site (north of the northern incinerator) ranged from 4.5-to 6-ft thick. Fill material consisted of a mix of sand, gravel, silt, clay, glass, ash, cinders, wood, brick, coal, and metal fragments. The fill material was typically dense and ranged from dry to moist. A fill contour map was prepared to illustrate the interpreted fill thickness and native soil surface, based upon the known depths observed soil boring and monitoring well locations throughout the site (Figure 9). The cross sections demonstrate a similar pattern as to the distribution of fill material at the site, with the thickest fill underlying the ramp leading up to the northern incinerator, and a fill thickness of 1–6 ft underlying the remainder of the site.

Glaciolacustrine deposits were encountered in soil and monitoring well borings completed during the RI. This layer consisted primarily of reddish brown to gray laminated silt, clay, silty clay, and clayey silt of moderate to high plasticity. Consistency of the unit decreased from hard/stiff to soft with depth due to an increase in moisture content with depth. Horizontal and vertical laminations and fractures were observed in the glaciolacustrine deposits, and iron staining was observed along fractures in soil retrieved at MW-02A. Lenses containing varying amounts of fine to very fine sand were encountered in some borings (i.e., SB-06, SB-07, and SB-10), but were not consistent throughout the site. Till was encountered in monitoring well boring MW-08 at 25–27 ft bgs. Bedrock was not observed in any of the borings installed as part of this RI.

Site Hydrogeology

Seven monitoring wells were installed across the site during the RI. Groundwater measurements made at these monitoring wells were used to determine local groundwater flow. Groundwater level measurements collected are provided in Table 3. An interpreted groundwater contour map illustrating the direction of groundwater flow for the November 2012 gauging event is shown in

Figure 10. The groundwater flow direction as based on the groundwater elevations in monitoring wells installed as part of this RI was generally to the northeast to north, toward Smokes Creek.

The geologic cross sections show the gauged depths to groundwater within the monitoring wells, as well as the saturated zones encountered during soil boring and monitoring well installation.

No monitoring wells were installed in the ramp area leading to the northern incinerator. However, saturated soil was encountered at SB-11 at a depth of approximately 10 ft bgs. Saturated soil was encountered in monitoring well borings and SB-18, located off the ramp area, at a depth of 15 ft bgs (MW-08) to 25 ft bgs (MW-05). The elevated saturated zone at SB-11 may indicate a localized zone of perched water in the ramp area. Groundwater flows generally northward to Smokes Creek, with some localized variation.

ANALYTICAL RESULTS

Surface / Subsurface Soil / Fill Analytical Results

Analytical results for surface and subsurface soil samples within the Lackawanna Incinerator site were compared to the NYSDEC Part 375 Restricted Residential and Industrial soil cleanup objectives (SCOs). Results for soil samples collected from adjacent properties (i.e., Baker Hall property to the east and Veterans' Stadium to the west) were also compared to the more stringent Unrestricted Use SCOs. The following sections summarize exceedances detected in surface and subsurface soil samples.

Volatile Organic Compounds

Acetone and methylene chloride were detected above their respective Unrestricted Use SCOs, with acetone detected above the Unrestricted Use SCO of 0.05 mg/kg in soil from MW-06 and SB-11, and methylene chloride detected above the Unrestricted Use SCO of 0.05 mg/kg in the duplicate sample collected from MW-06. Both MW-06 and SB-11 are located within the Lackawanna Incinerator property boundary. VOCs were not detected at concentrations exceeding Restricted Residential or Industrial SCOs in any of the surface and subsurface soil samples collected. Table 4 provides a summary of VOCs detected in surface and subsurface soil.

Semivolatile Organic Compounds

Several SVOCs were detected at concentrations above their respective Unrestricted Use, Restricted Residential, and/or Industrial SCOs in surface and/or subsurface soil samples, specifically, the PAHs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, 2-methylphenol, and phenol. Table 5 provides a summary of SVOCs detected in surface and subsurface soil, while Table 6 includes a summary of SVOC exceedances in surface and subsurface soil.

One SVOC, benzo(a)pyrene, was detected above the Industrial SCO of 1.1 mg/kg in soil from one surface soil location (SS-09 at 1.9 J mg/kg). Four additional SVOCs (benzo(a)anthracene, benzo(b)fluoranthene , dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were detected above the Restricted Residential SCOs at two surface soil sampling locations: SS-08 and SS-09 (located on the adjoining property east of the site; Figure 6). One SVOC, benzo(a)pyrene was detected above the Industrial SCO, and three additional SVOCs (benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene) were detected above the Restricted Residential SCOs at three soil boring locations (SB-09, SB-13, SB-18) and two monitoring well borings (MW-03A and MW-05). Chrysene was also detected above the Restricted Residential SCO at SB-09. Borings SB-09 and MW-05 are located on the adjoining property to the east of the site, SB-13 is located on-site in the ramp area, and SB-18 and MW-03A are located on-site west of the ramp (Figure 6).

Chrysene was detected above the respective Unrestricted Use SCO of 1 mg/kg at MW-05, located on the adjoining property to the east. Additional SVOCs exceeding the Unrestricted Use SCOs were detected at locations within the Lackawanna Incinerator property, including chrysene at MW-03A (west of ramp) and 2-methylphenol and phenol at SB-13 (on ramp).

No SVOCs were detected above SCOs in any of the other surface or subsurface soil samples collected.

Pesticides and Polychlorinated Biphenyls Results

Pesticides, including p,p'-dichlorodiphenyldichloroethylene (DDE), p,p'-dichlorodiphenyl-dichloroethane (DDD), and p-p'-dichlorodiphenyltrichloroethane (DDT), were detected at concentrations exceeding their respective Unrestricted Use SCOs of 0.0033 mg/kg in off-site surface and/or subsurface soil samples with detections in surface soil at SS-08 and SS-09, located on the property east of the site, and subsurface soil at MW-08, along Smokes Creek northwest of the site. In addition, p,p'-DDE, p,p'-DDD, and p-p'-DDT were detected above Unrestricted Use SCOs in on-site surface and/or subsurface soils at SS-11, MW-02A, and MW-07. Pesticides exceeding associated SCOs are included in Table 6, and detections below SCOs are included in Table 7. No other pesticides were detected in surface or subsurface soil above SCOs.

No PCBs were detected in surface or subsurface soil above Unrestricted Use, Restricted Residential, or Industrial SCOs. Table 7 provides a summary of PCBs detected in surface and subsurface soil samples.

Inorganic Constituent Results

Several inorganic constituents including arsenic, barium, cadmium, chromium, copper, cyanide, lead, mercury, manganese, nickel, selenium, silver, and zinc were detected above their respective Unrestrictive Use, Restricted Residential, and/or Industrial SCOs in surface and/or subsurface soil samples. Table 8 provides a summary of inorganic constituents detected in surface and

subsurface soil, while Table 9 provides a summary of inorganic exceedances in surface and subsurface soil. Figures 11 and 12 illustrate arsenic and lead results in surface and subsurface soil in plan-view, while Figures 13 and 14 illustrate metals exceedances on cross sections A-A' and B-B'.

Five metals (cadmium, chromium, copper, lead, and manganese) were detected in surface soil samples at concentrations exceeding the Restricted Residential SCOs, with exceedances of one or more metals detected at six locations, including SS-08, SS-09, SS-10, SS-11, SS-12, and SS-14 (Figure 11). Surface soil sampling locations SS-08, SS-09, and SS-10 are located on the property east of the site. Sampling locations SS-11 and SS-12 are located in the on-site ramp area, while sampling location SS-14 is located in the northeastern corner of the site. Arsenic and/or lead were detected above their associated Industrial SCOs at five soil boring locations (SB-08, SB-11, SB-13, SB-16, and SB-18) and three monitoring well borings (MW-02A, MW-05, and MW-08) (Figures 12 through 14). Soil boring SB-08 and monitoring well boring MW-05 are located on the property east of the site, while monitoring well boring MW-08 is located along Smokes Creek northwest of the site. The remaining borings are located within the Lackawanna Incinerator property, with SB-11 and SB-13 in the ramp area, SB-16 and SB-18 west of the ramp, and MW-02A in the northeastern corner of the site.

Eight inorganic constituents (arsenic, barium, cadmium, copper, cyanide, lead, manganese, and nickel) were detected in subsurface soil samples at concentrations exceeding the Restricted Residential SCOs, with exceedances of one or more metals detected at six soil boring locations (SB-08, SB-11, SB-12, SB-13, SB-16, and SB-18) and four monitoring well boring locations (MW-02A, MW-05, MW-07, and MW-08) (Figures 12 through 14). Cyanide was also detected at MW-06 above the Restricted Residential SCO of 27 mg/kg. Soil boring SB-08 and monitoring well boring MW-05 are located on the property east of the site, while monitoring well boring MW-08 is located northwest of the site along Smokes Creek. The remaining sampling locations are within the Lackawanna Incinerator property boundary with SB-11, SB-12, and SB-13 in the ramp area; SB-16, SB-18, MW-02A in the northeastern corner of the site; MW-06 in the west-central portion of the site; and MW-07 in the north central portion of the site. In general, subsurface soil inorganic concentrations were more elevated in the ramp area where historic fill is present. Although the ash was generally mixed in with soil and/or other fill materials, the analytical data suggest that the ash-impacted fill was placed in alternating layers with other fill materials (i.e., in periodic intervals).

Additional metals were detected above their respective Unrestricted Use SCOs at all off-site surface and subsurface soil sampling locations. Based on analytical results of samples collected at the adjacent stadium field to the west, elevated metals concentrations were detected above Unrestricted Use SCOs in surface soils at SS-05 (lead), SS-06 (lead and zinc), and SS-07 (chromium); and in subsurface soils at SB-05 and SB-06 (nickel only), SB-06 (lead, mercury, and zinc in shallow soil to a depth of 2 ft bgs and nickel only in deeper soil), and along Smokes Creek at MW-08 (multiple metals including copper, chromium, mercury, nickel, silver, and zinc to a depth of 4 ft bgs). Multiple metals were detected at concentrations exceeding Unrestricted Use SCOs only in surface soils collected from the adjacent property to the east: SS-08, SS-09,

and SS-10, including arsenic, barium, cadmium, chromium, copper, mercury, nickel, selenium, and zinc. Metals were also detected above Unrestricted Use SCOs in subsurface soils collected from the property east of the site at SB-08 (arsenic, chromium, copper, lead, nickel, silver, and zinc in shallow soil to a depth of 4 ft bgs, lead to 6 ft bgs, and nickel to 8 ft bgs), SB-09 (lead, mercury, and zinc in shallow soil to a depth of 2 ft bgs, and nickel only in deeper soils to 8 ft bgs), SB-10 (nickel only to a depth of 8 ft bgs), and MW-05 (chromium, nickel, silver, and zinc in shallow soil to 2 ft bgs, zinc to 3 ft bgs, and nickel to 6 ft bgs).

Nickel was detected above the Unrestricted Use SCO at depth both across the Lackawanna Incinerator Site and in borings installed on adjacent properties, with a concentration ranging primarily from 30 to 50 mg/kg. In areas with elevated nickel concentrations above 50 mg/kg, additional metals were detected exceeding SCOs. Therefore, it appears that the background concentration for nickel is approximately 30–50 mg/kg, and areas where only nickel was detected below 50 mg/kg do not appear to be impacted by site-specific contaminants.

Sediment Analytical Results

Low concentrations of VOCs and SVOCs were detected in sediment, as reported in Tables 10 and 11. Total organic carbon (TOC) values in sediment were lowest at SD-05B (16,000 J mg/kg), located on the north bank of Smokes Creek, and highest in sediment collected from the storm sewer outfall location SD-03A (56,000 J mg/kg). In the remaining sampling locations, TOC values ranged from 22,000 J mg/kg to 27,000 J mg/kg. A summary of TOC results is provided in Table 12.

A complete summary of VOC and SVOC results and a comparison to sediment criteria will be provided in the RI report. Sediment criteria to be used for evaluating the sediment sample analytical data set for non-polar organic contaminants will be developed from the NYSDEC *Technical Guidance for Screening Contaminated Sediments* (NYSDEC, 1999a)[8]. The guidance document presents concentration values for several levels of protection. When evaluating detected analytes, benthic aquatic life chronic toxicity values will be used where applicable and human health bioaccumulation values will be used when chronic toxicity values are not available. The guidance values will be calculated as a function of the TOC content of the sediment being evaluated. The TOC concentration will be utilized to calculate an average organic carbon concentration, the standard deviation within the data set, the 95 percent confidence limit concentration, and a lower confidence limit concentration value. EA will select the appropriate concentration value as the percent TOC for the derivation of the sediment criteria via equilibrium partitioning methodology.

Inorganic analytical results for sediment samples were compared to the Lowest Effect Levels (LEL) and Severe Effect Levels (SEL), as described in the NYSDEC 1999 Division of Fish,

[8] NYSDEC. 1999a. Technical Guidance for Screening Contaminated Sediments.

Wildlife, and Marine Resources Technical Guidance for Screening Contaminated Sediments[9]. The following section summarizes the sediment inorganic sampling results.

Two metals were detected in sediment sample SD-03 at concentrations exceeding the SEL. Lead was detected at a concentration of 138 mg/kg, exceeding the SEL of 110, while zinc was detected at an estimated concentration of 298 J mg/kg, exceeding the SEL of 270 mg/kg (Figure 15).

Seven metals were detected in sediment samples at concentrations exceeding the associated LELs including arsenic (LEL of 6.0 mg/kg), cadmium (LEL of 0.6 mg/kg), copper (LEL of 16.0 mg/kg), lead (LEL of 31.0 mg/kg), manganese (LEL of 460 mg/kg), nickel (LEL of 16 mg/kg), and zinc (LEL of 120 mg/kg). Exceedances of LELs for two or more metals were detected at all sediment sampling locations, as summarized in Table 13.

PCBs and pesticides were not detected in any of the sediment samples analyzed.

Stormwater Outfall Analytical Results

Analytical results for stormwater outfall samples were compared to the NYSDEC Class C surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). The following section summarizes exceedances detected in stormwater samples.

No organic compounds were detected in the water samples collected from the stormwater outfalls (Table 14). Several inorganic constituents were detected, including aluminum, antimony, barium, calcium, copper, cyanide, iron, magnesium, manganese, potassium, selenium, sodium, and zinc. Total cyanide was detected above the both the Class C Aquatic (Acute) Standard of 22 µg/L and Class C Aquatic (Chronic) standard of 5.2 µg/L at SW-04 (32 µg/L), and above the Aquatic (Chronic) Standard at SW-03 (8.0 µg/L) (Figure 16). Selenium was detected above the Class C Aquatic (Chronic) Standard of 4.6 µg/L at SW-03 (6.98 µg/L). Table 14 summarizes inorganics detected in stormwater outfall samples.

Groundwater Analytical Results

Analytical results for groundwater samples were compared to the NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). The following section summarizes exceedances detected in groundwater.

Acetone was detected at monitoring wells MW-04 and MW-06 above the Class GA criteria of 50 micrograms per liter (µg/L), with acetone detected at a concentration of 63 µg/L at MW-04 and

[9] NYSDEC. 1999b. Division of Fish, Wildlife, and Marine Resources Technical Guidance for Screening Contaminated Sediments.

68 µg/L at MW-06. The VOC *cis*-1,2-dichloroethene was detected below the standard (5 µg/L) at MW-04 and MW-06. No other organic compounds were detected in groundwater samples.

Seven metals were detected above the NYSDEC Class GA criteria, including antimony (greater than 3 µg/L), chromium (greater than 50 µg/L), iron (greater than 300 µg/L), lead (25 µg/L), magnesium (greater than 35,000 µg/L), manganese (greater than 300 µg/L), and sodium (greater than 20,000 µg/L) (Table 15). One or more metals exceeding the Class GA standards were detected in each monitoring well location, as summarized in Table 16. These results will be further evaluated following the second groundwater sampling event.

PREVIOUSLY SCOPED RI FIELD ACTIVITIES

EA will conduct the following previously scoped RI activities in the March–April 2013 timeframe:

- ***Evaluation of Indoor Air and Potential Vapor Intrusion***—Collecting indoor air samples at two locations within the northern incinerator building, sub-slab vapor samples at two locations beneath the northern incinerator building, and one ambient air sample (upwind of the northern incinerator) for analysis of VOCs. This evaluation was included as a First Phase RI activity, but was conducted on March 11–12, 2013 to be within the winter heating season.

- ***Groundwater Evaluation***—Conducting a Second Phase RI groundwater sampling event at each monitoring well location to confirm the results of the First Phase RI sampling event and evaluate potential seasonal variability. Groundwater samples will be analyzed for TCL VOCs, TCL SVOCs, TAL inorganics, and monitored natural attenuation parameters.

- ***Surface Soil Evaluation***—The remaining surface soil samples (reserved sampling numbers SS-03 and SS-04) will be collected to further delineate surface soil impacts at the adjoining property west of the site.

PROPOSED SECOND PHASE RI FIELD ACTIVITIES

Additional sampling is needed to determine the lateral extent of site-related impacts, based on exceedances observed at the adjoining Veterans' Stadium (to the west) and Baker Hall (to the east) properties and along Smokes Creek (to the north/northwest of the site). A brief discussion of these inorganic and SVOC exceedances is provided below, followed by specific recommendations to address these site characterization data gaps. As discussed, additional sampling is recommended to evaluate background concentrations of PAHs and metals in surface soil. It is also recommended that a limited number of on-site soil/fill samples be collected from the ramp area for waste characterization (e.g., toxicity characteristic leaching procedure [TCLP] metals).

Baker Hall Property

At the Baker Hall property to the east of the site, SVOCs and/or metals exceeded the Industrial, Residential, and/or Unrestricted Use SCOs at six locations including: three surface soil sampling locations (SS-08 and SS-09 for SVOCs and metals; and SS-10 for metals only) and three soil boring locations:

- SB-08: 0–4 ft bgs for multiple metals exceeding multiple standards, and 4–6 ft bgs for lead exceeding the Unrestricted Use SCO.

- SB-09: 0–2 ft bgs for SVOCs exceeding Restricted Residential SCOs and metals (lead, mercury, and zinc) exceeding Unrestricted Use SCOs.

- MW-05: 0–2 ft bgs for SVOCs and multiple metals exceeding multiple standards, 2–3 ft bgs for lead and zinc exceeding multiple standards.

Nickel was also detected above the Unrestricted Use SCO at several of the above locations as well as at SB-10 from 4 to 8 ft bgs; however, these concentrations were within the interpreted background concentration (30 to 50 mg/kg).

Based on the detections of SVOCs and metals above SCOs, further delineation of surface soil is needed east and south of the previous sampling locations on the Baker Hall property (Figure 17). The vertical extent of site-related constituents in soil borings appears to extend from 2 to 6 ft bgs, with depth increasing northward from SB-09 (2 ft bgs) to SB-08 (6 ft bgs). Therefore, further delineation of subsurface soil is needed east of SB-09, MW-05, and SB-08.

Lackawanna Veterans' Stadium Property

At the Lackawanna Veterans' Stadium property to the west of the site, metals were detected above the Unrestricted Use SCOs at three surface soil sampling locations including SS-05 (lead only), SS-06 (lead and zinc), and SS-07 (chromium). Metals exceeded the Industrial, Residential, and/or Unrestricted Use SCOs at soil boring SB-07 (0–2 ft bgs for lead, mercury, and zinc).

Based on the detections of metals above SCOs in surface soils, further lateral delineation of metals in surface soil is needed to the west and south of the sampling locations on the Lackawanna Veterans' Stadium property (Figure 17). As site-related metals were detected in shallow subsurface soil at SB-07 (0-2 ft bgs), additional delineation of metals is needed to the west and south of this location.

Smokes Creek Area

At one location MW-08, along Smokes Creek northwest of the site, metals in subsurface soils exceeded the Industrial and/or Residential SCOs (MW-08 at 0–2 ft bgs and 2–4 ft bgs). Therefore, additional delineation of metals is needed at this location (Figure 17).

Sediment samples collected within the Smokes Creek channel do not appear to be impacted by site-specific contaminants, as concentrations of metals exceeding LELs are similar at the upstream location (SD-05A/B), midstream location immediately downgradient from the site (SD-06A/B), and downstream location (SD-07A/B). However, metals concentrations in floodplain sediment samples collected from the outfall locations SD-03, SD-04, and SD-06FP were elevated above those detected in samples collected from within the stream channel with cadmium, copper, lead, zinc, and manganese (SD-06FP only) concentrations exceeding the respective SEL and/or LEL. Due to the elevated metals detections in the outfall and floodplain sediment samples, additional sampling is recommended to delineate metals concentrations in sediment adjacent to the outfall / floodplain sampling locations (Figure 18).

Stormwater outfall samples appear to be impacted by site-specific inorganic constituents including total cyanide and selenium. As the outfalls discharge into the floodplain area and surface water samples were not collected from Smokes Creek during the First Phase RI, additional surface water sampling is recommended to determine if the creek has been impacted by site-specific inorganic constituents (Figure 18).

RECOMMENDATIONS

Accordingly, EA recommends the following additional sampling activities (Table 1):

- Baker Hall property (surface and subsurface soil)—Collect six additional surface soil samples to delineate the lateral extent of SVOCs and metals exceedances east of SS-08, SS-09, and SS-10. Complete four additional shallow soil borings to 8 ft bgs (or the top of silt and clay, whichever is encountered first) in the northern portion of the Baker Hall property to delineate the lateral and vertical extent of metals in subsurface soil north of SB-08 and east of SB-08, MW-05, and SB-09.

- Lackawanna Veterans' Stadium property (surface and subsurface soil)—Collect four additional surface soil samples to delineate the lateral extent of metals exceedances west of SS-05, SS-06, and SS-07. Complete three additional shallow soil borings up to 4 ft bgs to delineate the lateral and vertical extent of metals in subsurface soil west of MW-08 (along Smokes Creek) and SB-07.

- Smokes Creek area (sediment)—Collect three additional floodplain sediment samples in the area between SD-03 and SD-04, and near SD-07A to delineate metals exceedances.

- Smokes Creek (surface water and sediment)—Collect five surface water samples to determine if the creek has been impacted by site-specific inorganic constituents. Proposed surface water sampling locations include one upstream background sample, two samples immediately downstream from stormwater outfall locations SW-03 and SW-04, respectively; one sample centrally located (midstream) between outfall locations SW-03 and SW-04, and one sample downstream from the site. In addition, two sediment samples will be co-located with the midstream and downstream surface water sampling locations.

- Background areas (surface soil)—Collect up to six additional surface soil samples at the Veterans' Stadium property and/or in the park east of the Baker Hall property to further evaluate background PAHs and metals soil concentrations.

- On-site ramp area (subsurface soil/fill)—Collect up to four additional subsurface soil/fill samples near the previous soil boring SB-13, where elevated metals concentrations were observed. Samples to be collected from one soil boring installed to 8 ft bgs analyzed for waste characterization purposes.

SCHEDULE

The additional RI field activities began on March 11, 2013 with indoor air and sub-slab soil vapor sampling. The Second Phase RI field activities, including a second groundwater sampling event, additional surface and subsurface soil samples for delineation of potential site-related impacts to adjacent properties and surface water and sediment samples from Smokes Creek are planned for the March–April 2013 timeframe.

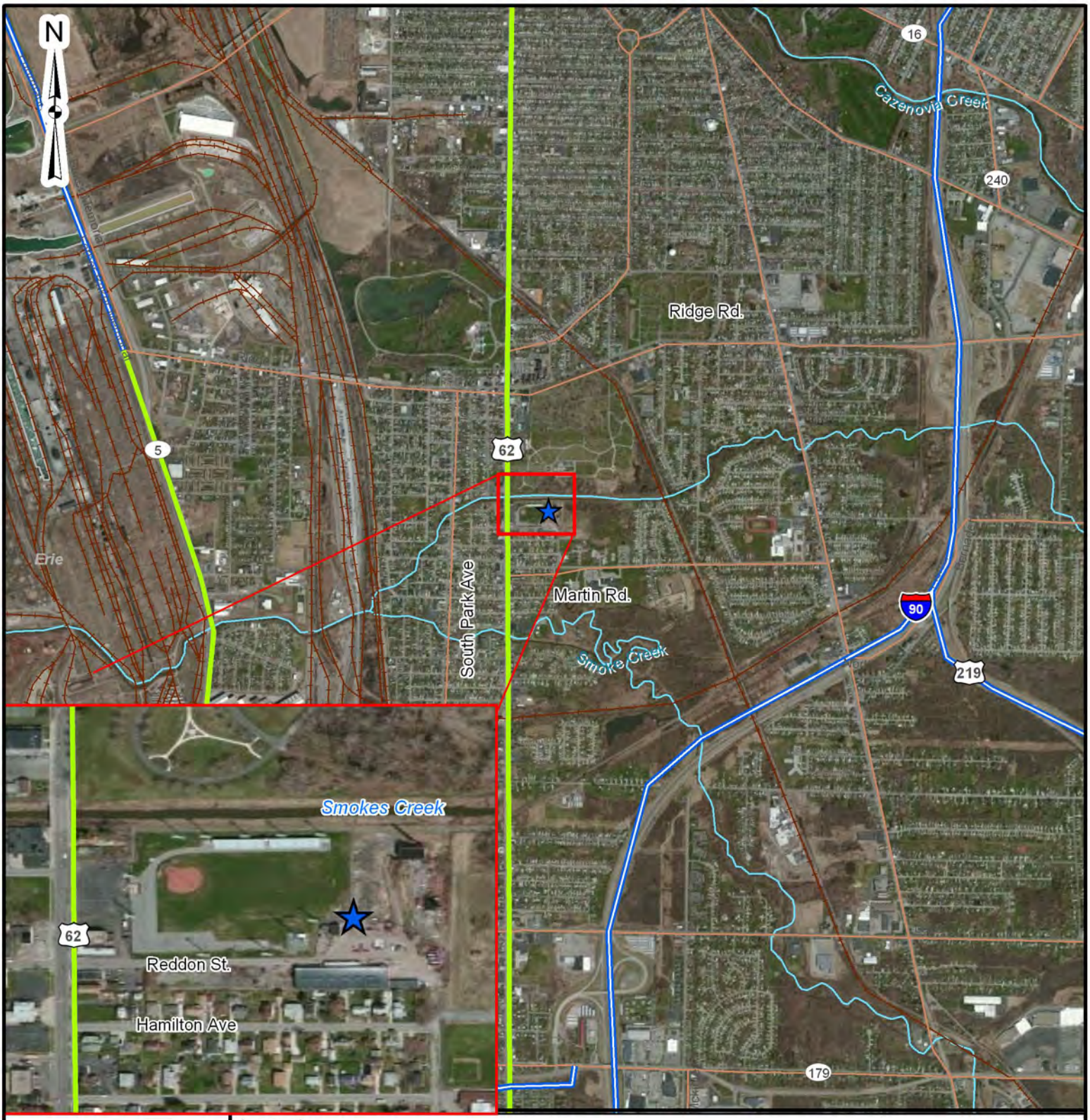
Following completion of the additional field investigation activities and associated laboratory analysis and data validation, EA will complete a Draft RI Report with the findings of the full RI investigation, qualitative human health exposure assessment, and fish and wildlife impact analysis and submit to NYSDEC for review and comment.

If you have any questions, please do not hesitate to contact me at (315) 431-4610, extension 111.

Sincerely yours,

EA SCIENCE AND TECHNOLOGY

Lynette B. Mokry, CHMM
Task Manager



Legend

★ Lackawanna Incinerator

0 0.25 0.5 1 Miles

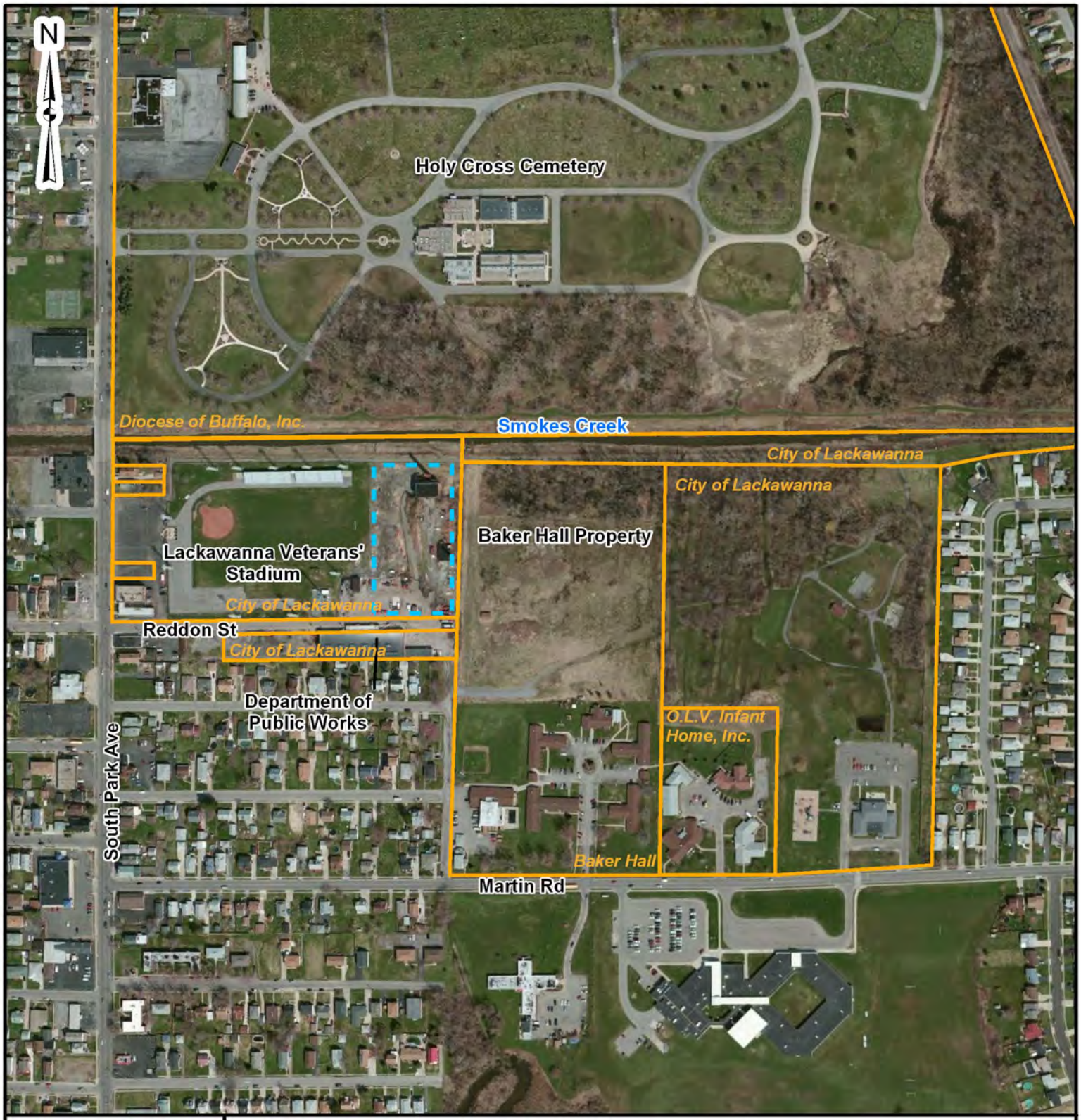
1 inch equals 0.5 miles

Source: ESRI Base Layer

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 1
Site Location

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	RER	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Site Location

Tax Parcels

Feet

0 200 400 800

1 in = 400 ft

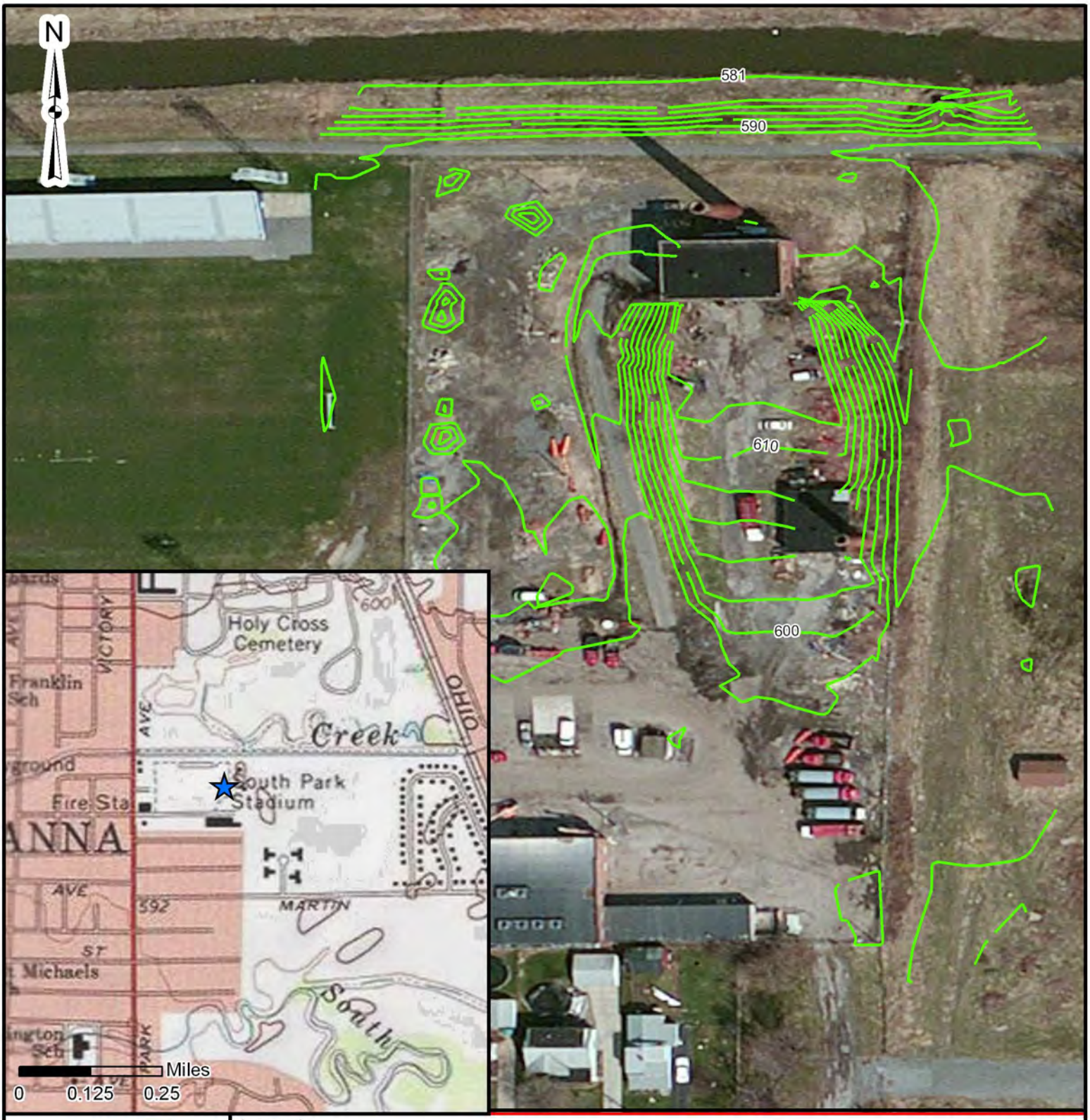
Note: All locations are approximate.

Source: ESRI Base Layer

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 2
Site and Surrounding Area

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Legend

Lackawanna Incinerator Site

2-Foot Contour Interval

Feet

0 50 100 200

1 in = 100 ft

Source: ESRI Base Layer

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 1-3
Topography

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
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Tax Parcels **2005 Site Investigation Sampling Locations**

- Monitoring Well
- Soil Boring
- Sediment Sample
- Stream Gauge

Feet
0 50 100 200
1 in = 100 ft

Source: ESRI Base Layer

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 4
2005 Site Investigation
Sampling Locations

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
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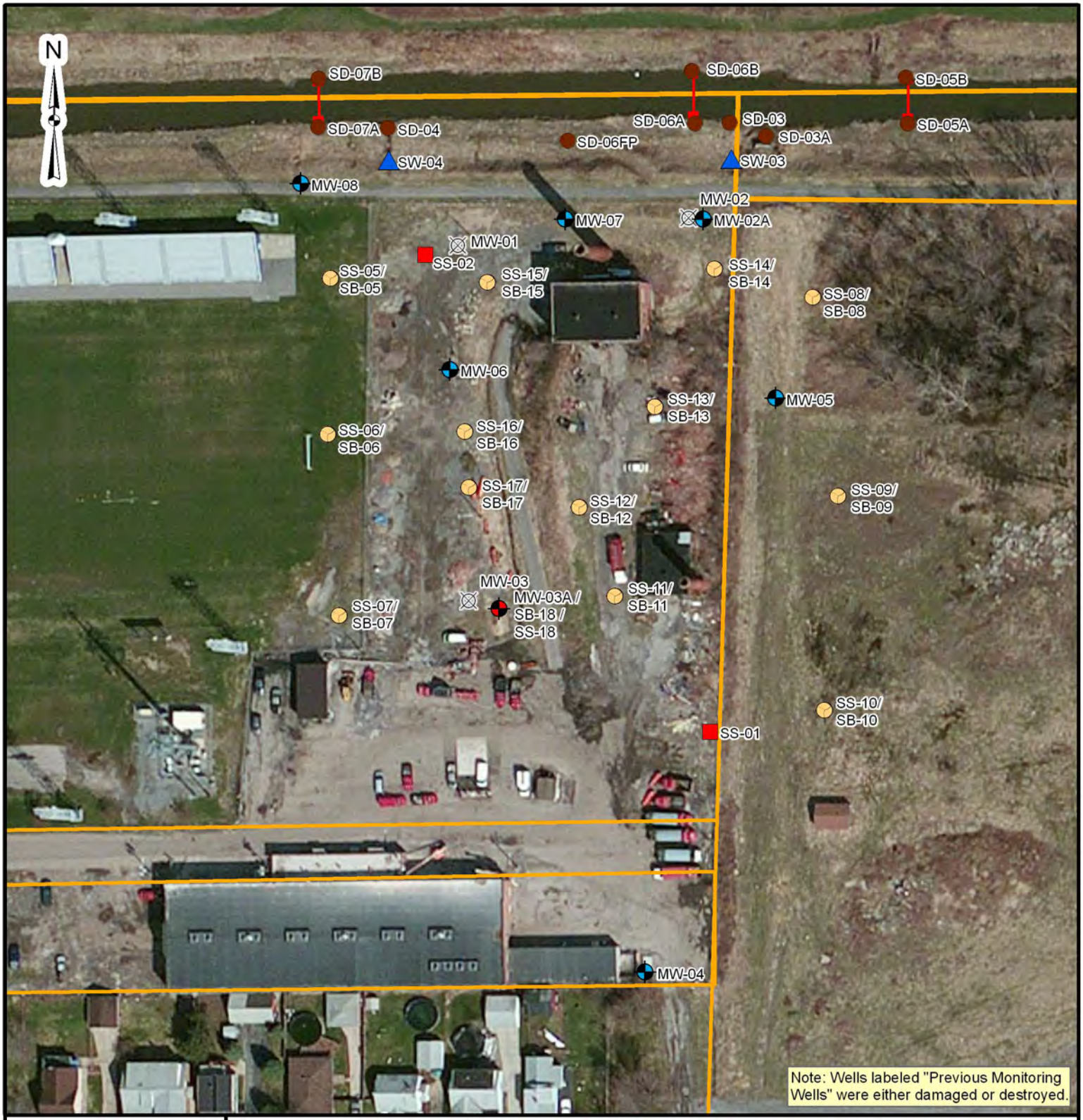

Tax Parcels
Previous Monitoring Wells (2005)
Sediment Transect
Monitoring Well
Monitoring Well / Surface Soil
Sediment
Surface Soil
Surface Soil / Soil Boring
Stormwater Outfall

Feet
0 50 100 200
1 in = 100 ft

Source: ESRI Base Layer

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FIGURE 2-1a
RI (First Phase)
Sampling Locations

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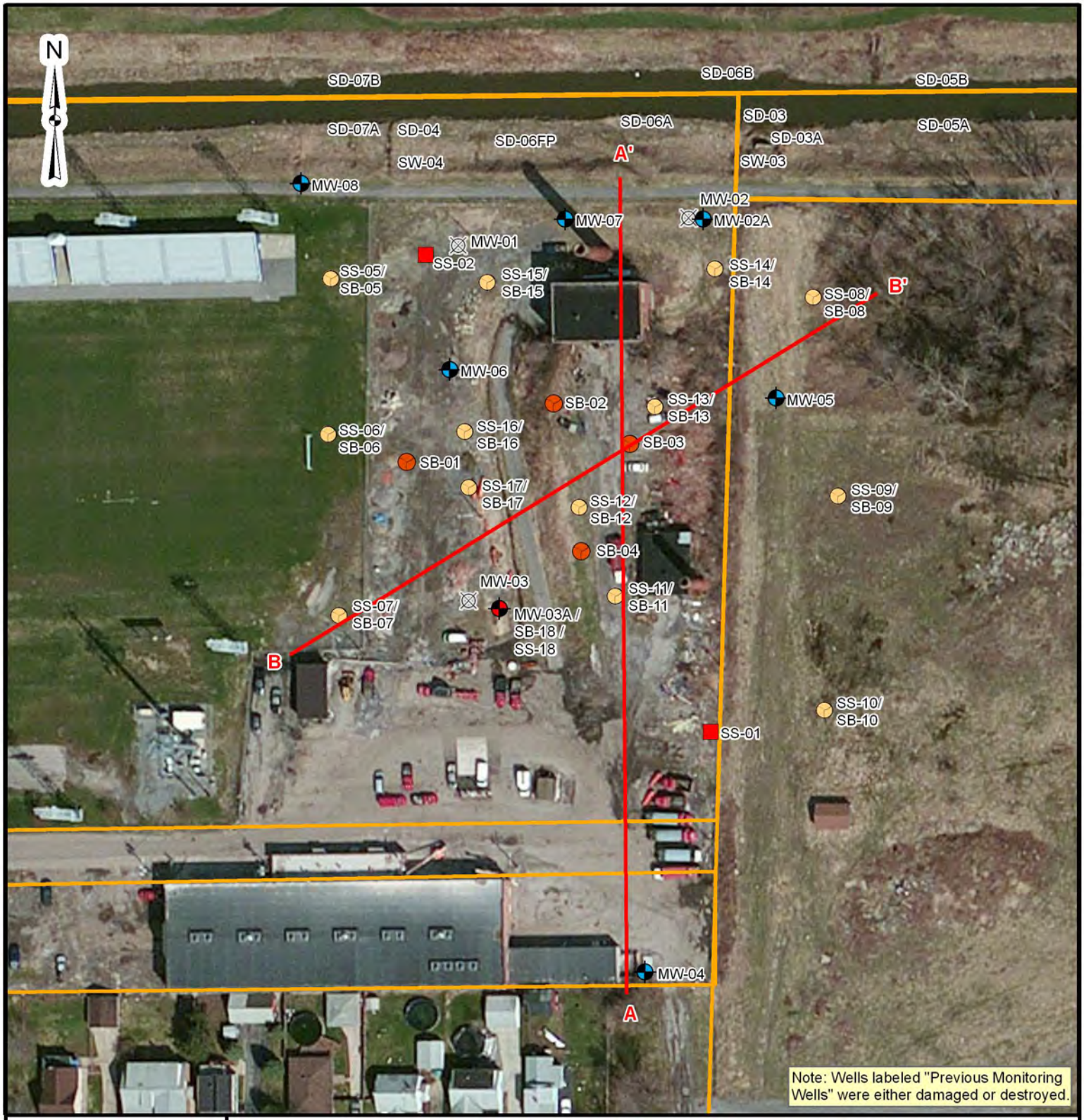

Tax Parcels
Previous Soil Boring (2005)
Previous Monitoring Well (2005)
Monitoring Well / Surface Soil
Monitoring Well
Surface Soil
Surface Soil / Soil Boring

Feet
0 50 100 200
1 in = 100 ft

Source: ESRI Base Layer

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LACKAWANNA, NEW YORK

FIGURE 6
Cross Section
Locations

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
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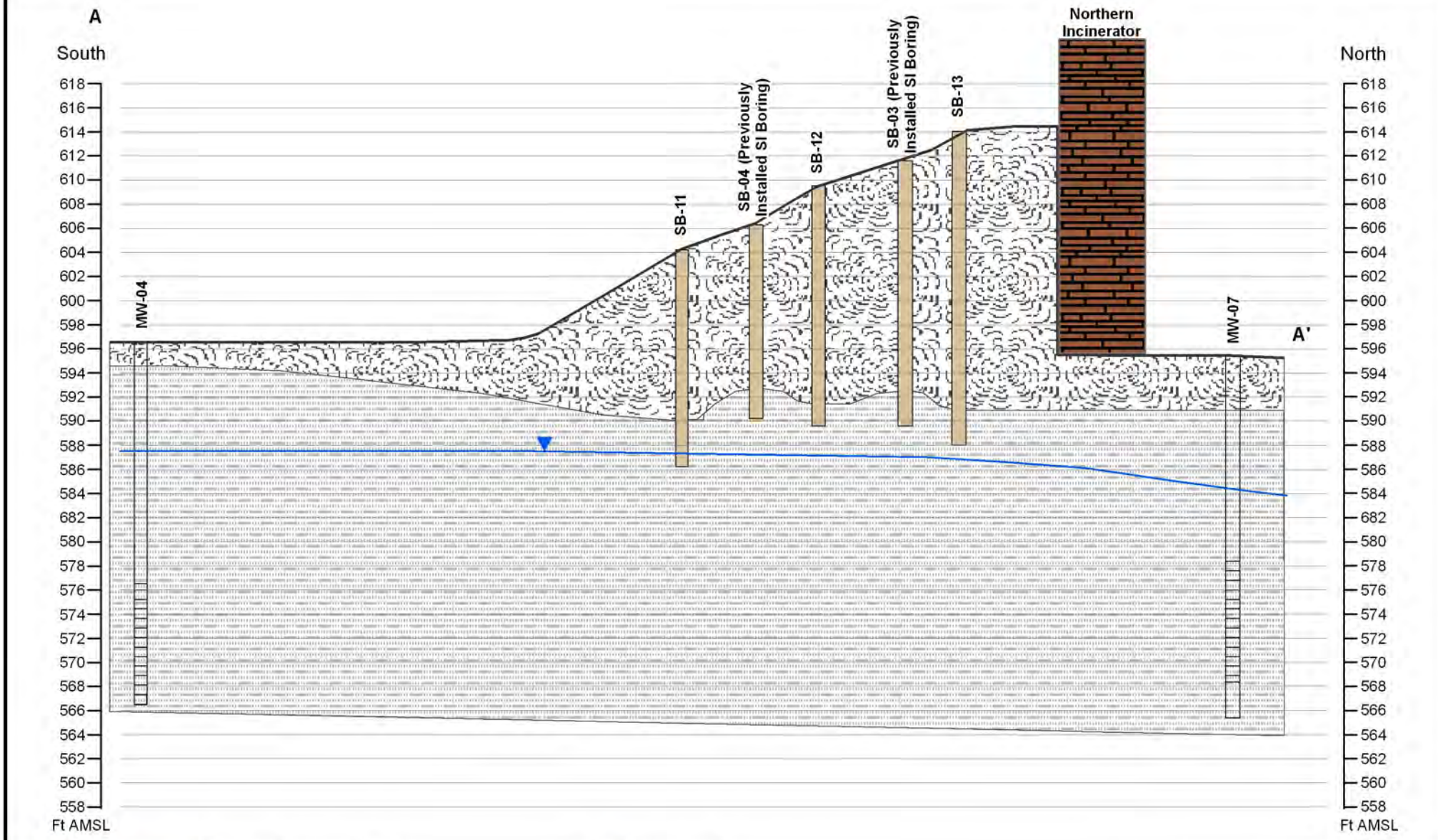

Borings
- Boring
- Monitoring Well
- Well Screen

Geology
- Fill
- Glaciolacustrine Silt and Clay

Hydrogeology
- Inferred Groundwater Elevation

Feet
0 35 70 140
1 in = 70 ft

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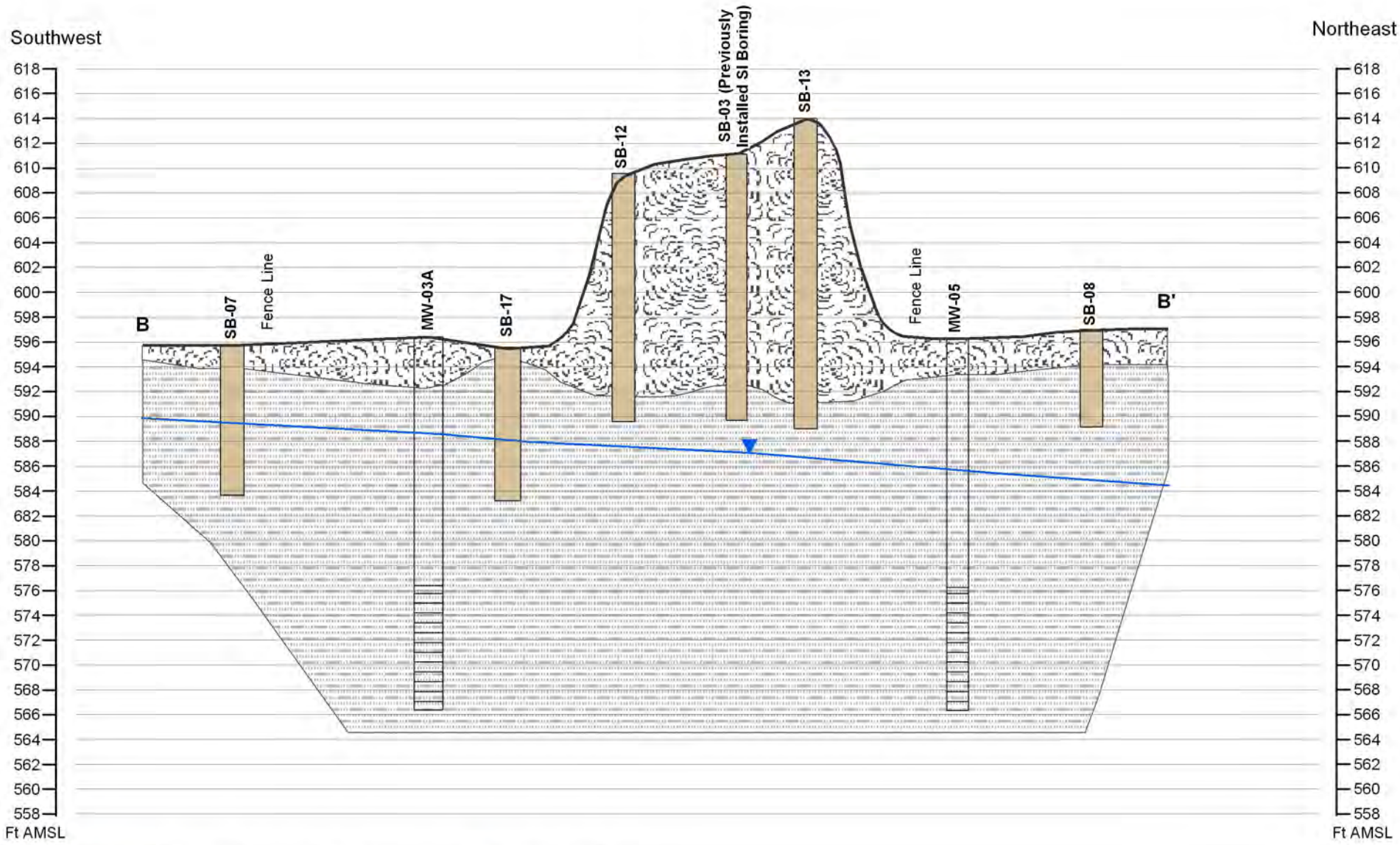
LACKAWANNA, NEW YORK

FIGURE 7
Cross Section A-A'

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	TWP	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Borings
- Boring
- Monitoring Well
- Well Screen

Geology
- Fill
- Glaciolacustrine

Hydrogeology
- Inferred Groundwater Elevation

Feet
0 25 50 100
1 in = 70 ft

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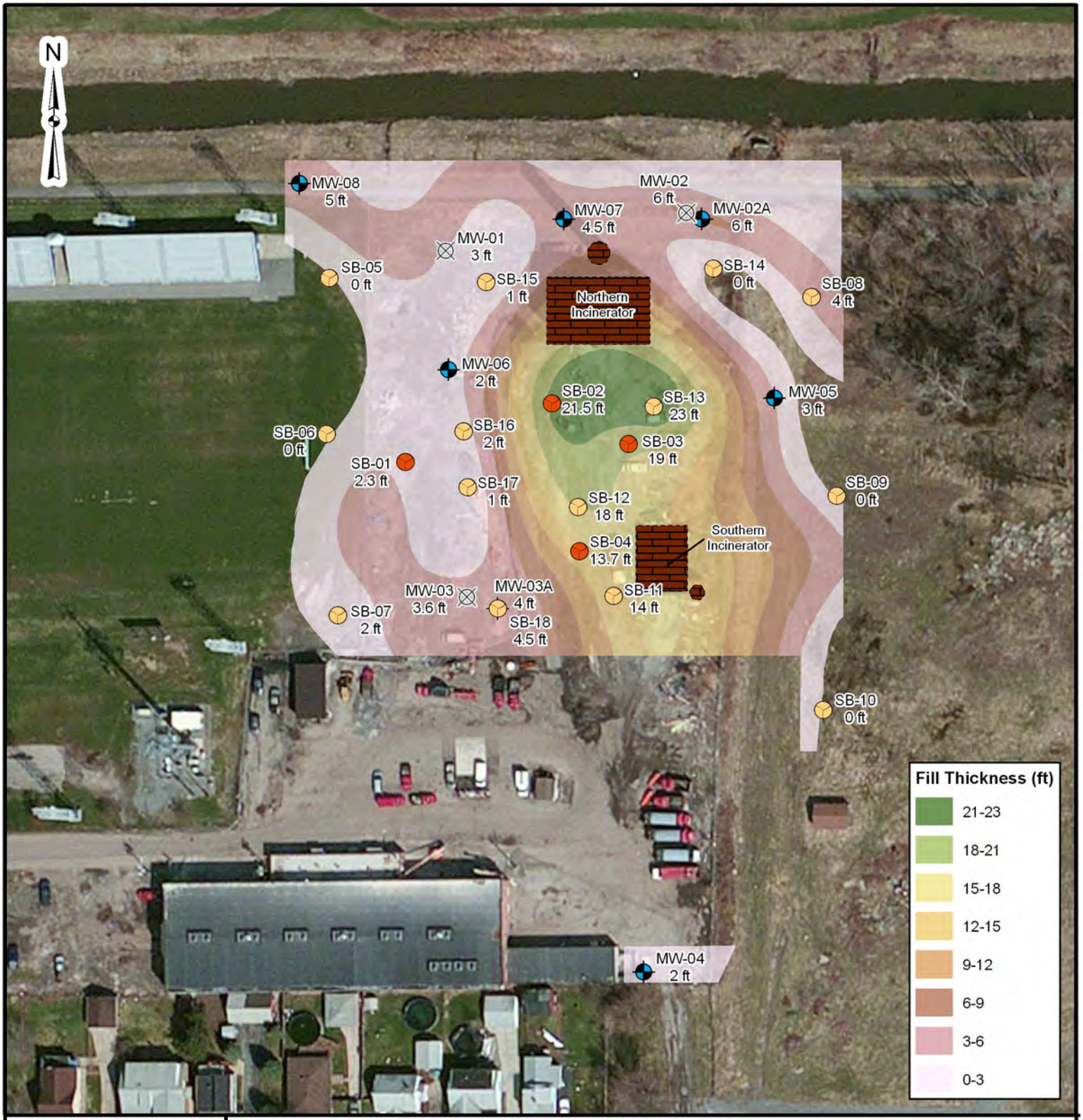
FIGURE 8
Cross Section B-B'

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	TWP	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



- Monitoring Well
- Previous Monitoring Well (2005)
- Soil Boring
- Previous Soil Boring (2005)

0 50 100 200 Feet

1 in = 100 ft

Note: Wells labeled "Previous Monitoring Wells" were either damaged or destroyed.

Source: ESRI Base Layer

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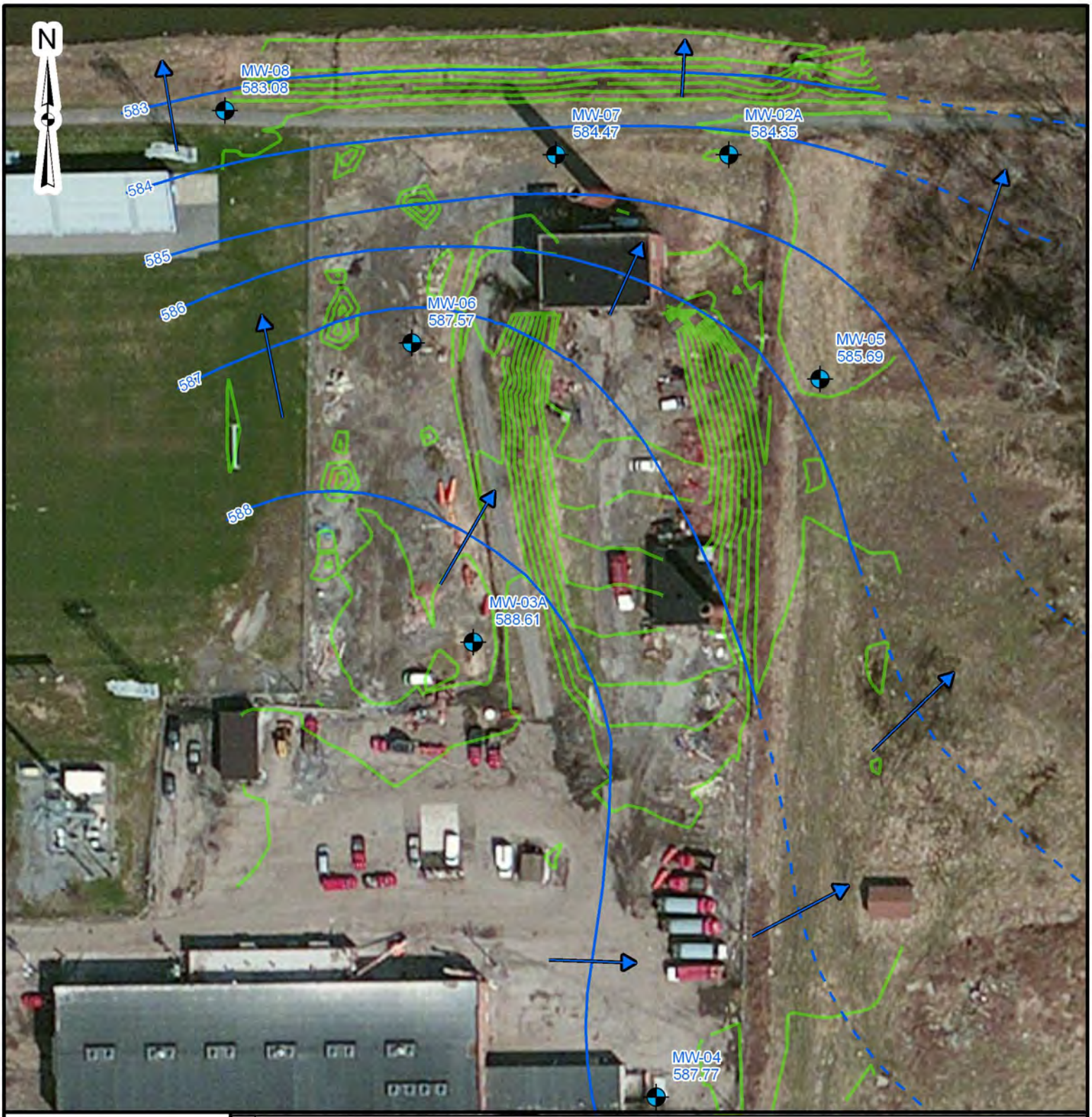
LACKAWANNA, NEW YORK

FIGURE 9
Interpreted Fill Thickness / Depth to Native Soil

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Monitoring Well
2-Foot Surface Elevation Contour
1-Foot Groundwater Contour
1-Foot Inferred Groundwater Contour
Groundwater Flow Direction

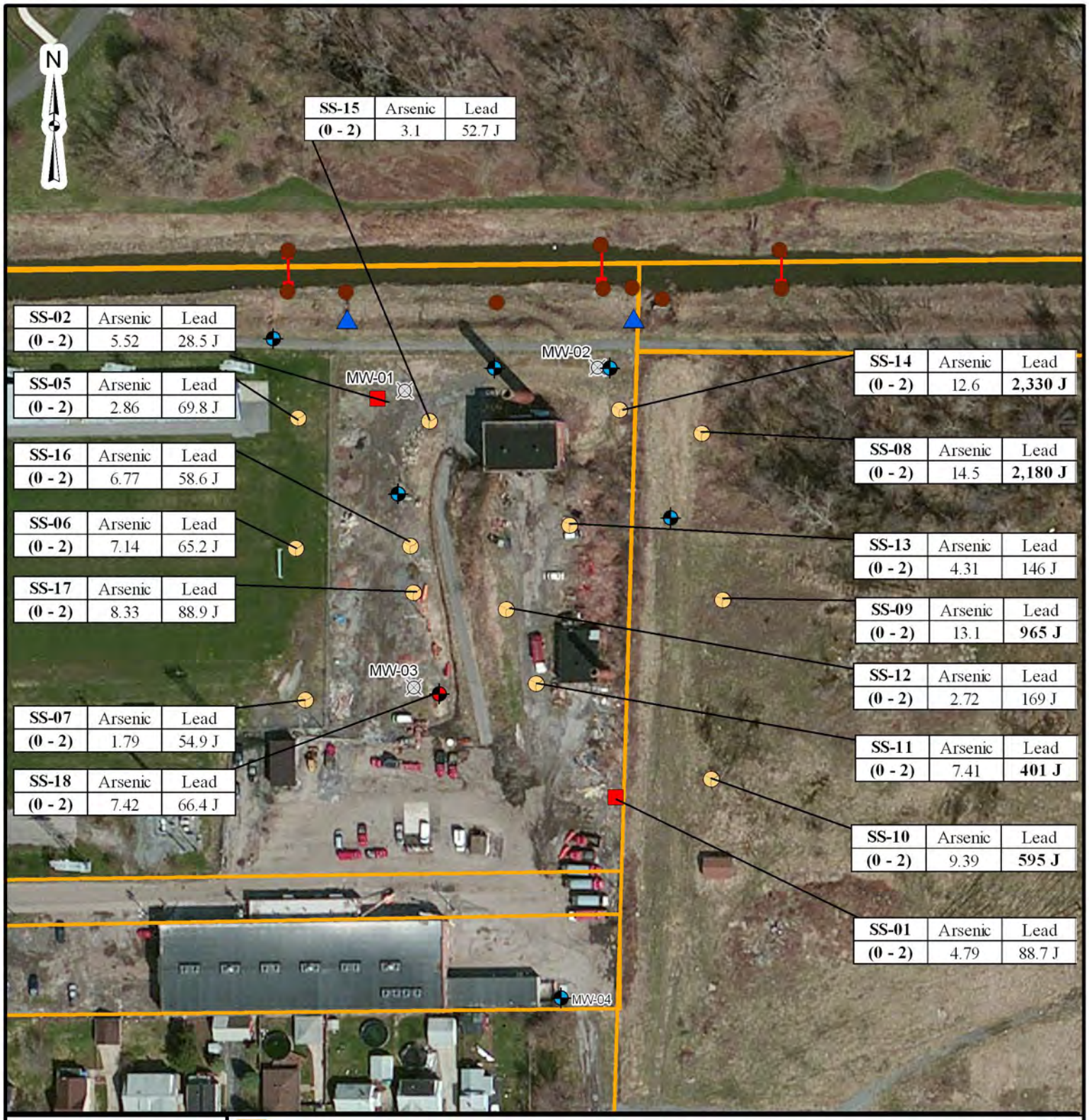
Feet
0 40 80 160
1 in = 80 ft

Source: ESRI Base Layer
NYS GIS Clearinghouse

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 10
Groundwater Contours
28-29 November 2012

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Tax Parcels
Previous Monitoring Wells (2005)
Monitoring Well
Monitoring Well / Surface Soil
Sediment
Surface Soil
Surface Soil / Soil Boring
Stormwater Outfall

Note: Bold indicates exceedance of Restricted Residential criteria.
Red and bold also exceeds Industrial criteria.

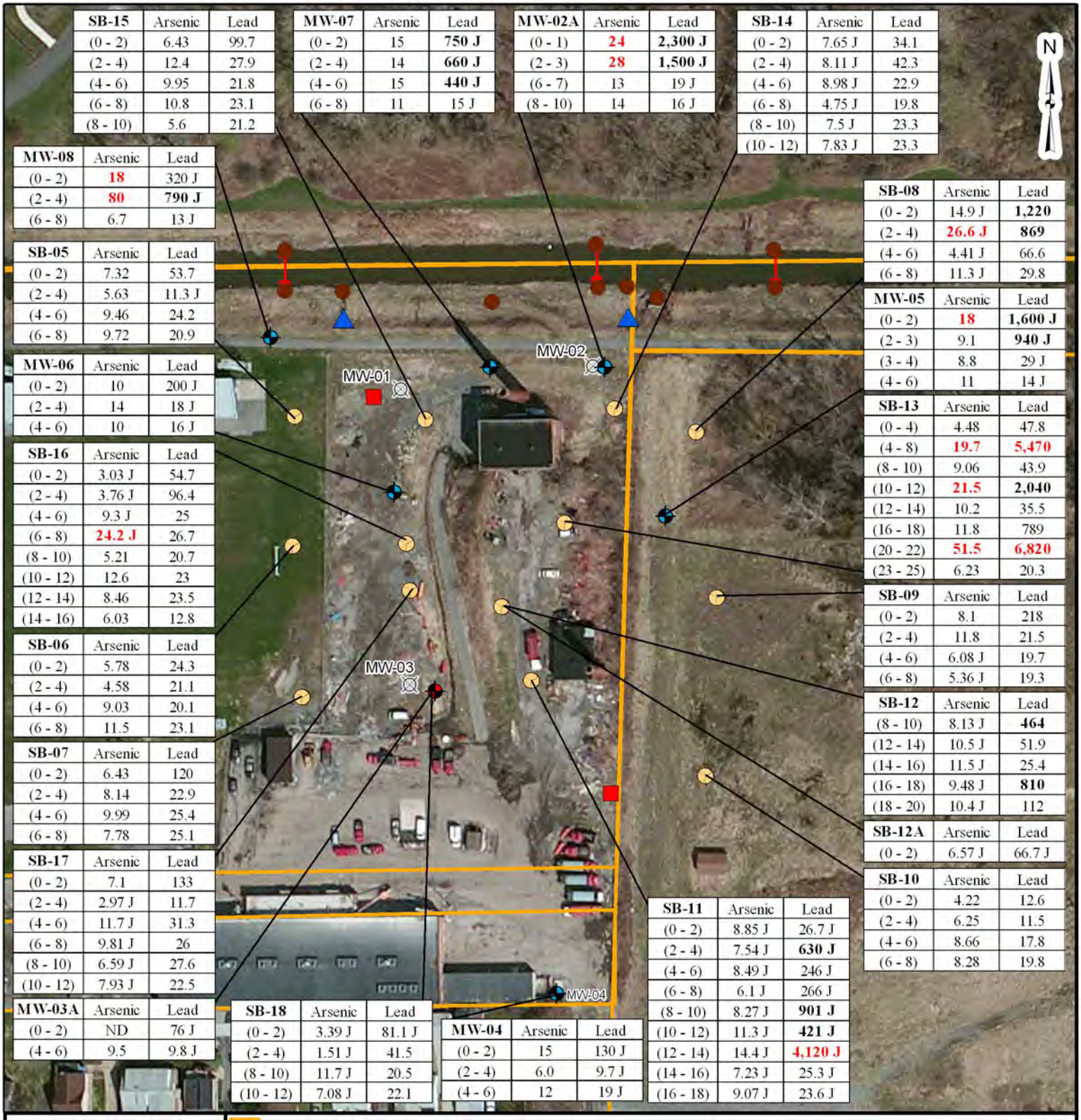
Feet
0 35 70 140
1 inch = 120 feet

Location	Arsenic	Lead
Sample Depth	Result (mg/kg)	Result (mg/kg)

LACKAWANNA INCINERATOR
LACKAWANNA, NEW YORK

FIGURE 11
Surface Soil Results
Arsenic and Lead

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



SB-15	Arsenic	Lead
(0 - 2)	6.43	99.7
(2 - 4)	12.4	27.9
(4 - 6)	9.95	21.8
(6 - 8)	10.8	23.1
(8 - 10)	5.6	21.2

MW-07	Arsenic	Lead
(0 - 2)	15	**750 J**
(2 - 4)	14	**660 J**
(4 - 6)	15	**440 J**
(6 - 8)	11	15 J

MW-02A	Arsenic	Lead
(0 - 1)	**24**	**2,300 J**
(2 - 3)	**28**	**1,500 J**
(6 - 7)	13	19 J
(8 - 10)	14	16 J

SB-14	Arsenic	Lead
(0 - 2)	7.65 J	34.1
(2 - 4)	8.11 J	42.3
(4 - 6)	8.98 J	22.9
(6 - 8)	4.75 J	19.8
(8 - 10)	7.5 J	23.3
(10 - 12)	7.83 J	23.3

MW-08	Arsenic	Lead
(0 - 2)	**18**	320 J
(2 - 4)	**80**	**790 J**
(6 - 8)	6.7	13 J

SB-05	Arsenic	Lead
(0 - 2)	7.32	53.7
(2 - 4)	5.63	11.3 J
(4 - 6)	9.46	24.2
(6 - 8)	9.72	20.9

MW-06	Arsenic	Lead
(0 - 2)	10	200 J
(2 - 4)	14	18 J
(4 - 6)	10	16 J

SB-16	Arsenic	Lead
(0 - 2)	3.03 J	54.7
(2 - 4)	3.76 J	96.4
(4 - 6)	9.3 J	25
(6 - 8)	**24.2 J**	26.7
(8 - 10)	5.21	20.7
(10 - 12)	12.6	23
(12 - 14)	8.46	23.5
(14 - 16)	6.03	12.8

SB-06	Arsenic	Lead
(0 - 2)	5.78	24.3
(2 - 4)	4.58	21.1
(4 - 6)	9.03	20.1
(6 - 8)	11.5	23.1

SB-07	Arsenic	Lead
(0 - 2)	6.43	120
(2 - 4)	8.14	22.9
(4 - 6)	9.99	25.4
(6 - 8)	7.78	25.1

SB-17	Arsenic	Lead
(0 - 2)	7.1	133
(2 - 4)	2.97 J	11.7
(4 - 6)	11.7 J	31.3
(6 - 8)	9.81 J	26
(8 - 10)	6.59 J	27.6
(10 - 12)	7.93 J	22.5

MW-03A	Arsenic	Lead
(0 - 2)	ND	76 J
(4 - 6)	9.5	9.8 J

SB-18	Arsenic	Lead
(0 - 2)	3.39 J	81.1 J
(2 - 4)	1.51 J	41.5
(8 - 10)	11.7 J	20.5
(10 - 12)	7.08 J	22.1

MW-04	Arsenic	Lead
(0 - 2)	15	130 J
(2 - 4)	6.0	9.7 J
(4 - 6)	12	19 J

SB-11	Arsenic	Lead
(0 - 2)	8.85 J	26.7 J
(2 - 4)	7.54 J	**630 J**
(4 - 6)	8.49 J	246 J
(6 - 8)	6.1 J	266 J
(8 - 10)	8.27 J	**901 J**
(10 - 12)	11.3 J	**421 J**
(12 - 14)	14.4 J	**4,120 J**
(14 - 16)	7.23 J	25.3 J
(16 - 18)	9.07 J	23.6 J

SB-08	Arsenic	Lead
(0 - 2)	14.9 J	**1,220**
(2 - 4)	**26.6 J**	**869**
(4 - 6)	4.41 J	66.6
(6 - 8)	11.3 J	29.8

MW-05	Arsenic	Lead
(0 - 2)	**18**	**1,600 J**
(2 - 3)	9.1	**940 J**
(3 - 4)	8.8	29 J
(4 - 6)	11	14 J

SB-13	Arsenic	Lead
(0 - 4)	4.48	47.8
(4 - 8)	**19.7**	**5,470**
(8 - 10)	9.06	43.9
(10 - 12)	**21.5**	**2,040**
(12 - 14)	10.2	35.5
(16 - 18)	11.8	789
(20 - 22)	**51.5**	**6,820**
(23 - 25)	6.23	20.3

SB-09	Arsenic	Lead
(0 - 2)	8.1	218
(2 - 4)	11.8	21.5
(4 - 6)	6.08 J	19.7
(6 - 8)	5.36 J	19.3

SB-12	Arsenic	Lead
(8 - 10)	8.13 J	**464**
(12 - 14)	10.5 J	51.9
(14 - 16)	11.5 J	25.4
(16 - 18)	9.48 J	**810**
(18 - 20)	10.4 J	112

SB-12A	Arsenic	Lead
(0 - 2)	6.57 J	66.7 J

SB-10	Arsenic	Lead
(0 - 2)	4.22	12.6
(2 - 4)	6.25	11.5
(4 - 6)	8.66	17.8
(6 - 8)	8.28	19.8

Tax Parcels
Previous Monitoring Wells (2005)
Monitoring Well
Monitoring Well / Surface Soil
Sediment
Surface Soil
Surface Soil / Soil Boring
Stormwater Outfall

Note: Bold indicates exceedance of Restricted Residential criteria.
Red and bold also exceeds Industrial criteria.

Feet
0 30 60 120
1 inch = 120 feet

Location	Arsenic	Lead
Sample Depth	Result (mg/kg)	Result (mg/kg)

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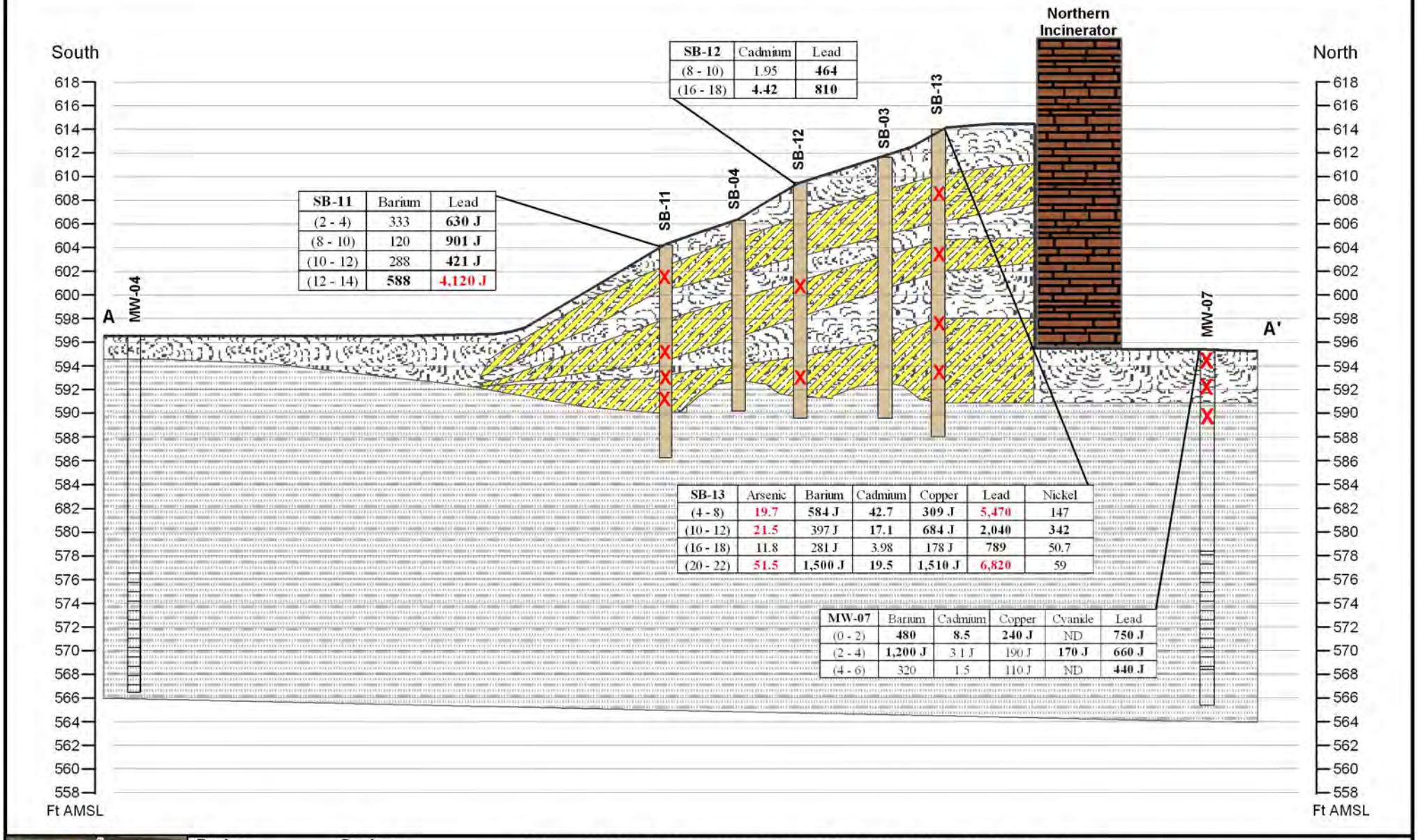
FIGURE 12
Soil Boring Results
Arsenic and Lead

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



Borings
- Boring
- Monitoring Well
- Well Screen

Geology
- Fill
- Ash-Impacted Fill
- Glaciolacustrine Silt and Clay

Note: - Bold indicates exceedance of Restricted Residential criteria.
- Red and bold also exceeds Industrial criteria.
- SB-03 and SB-04 are locations sampled during the previous 2005 investigation.
X = Sample interval with criteria exceedance

0 35 70 140 Feet
1 inch = 70 feet

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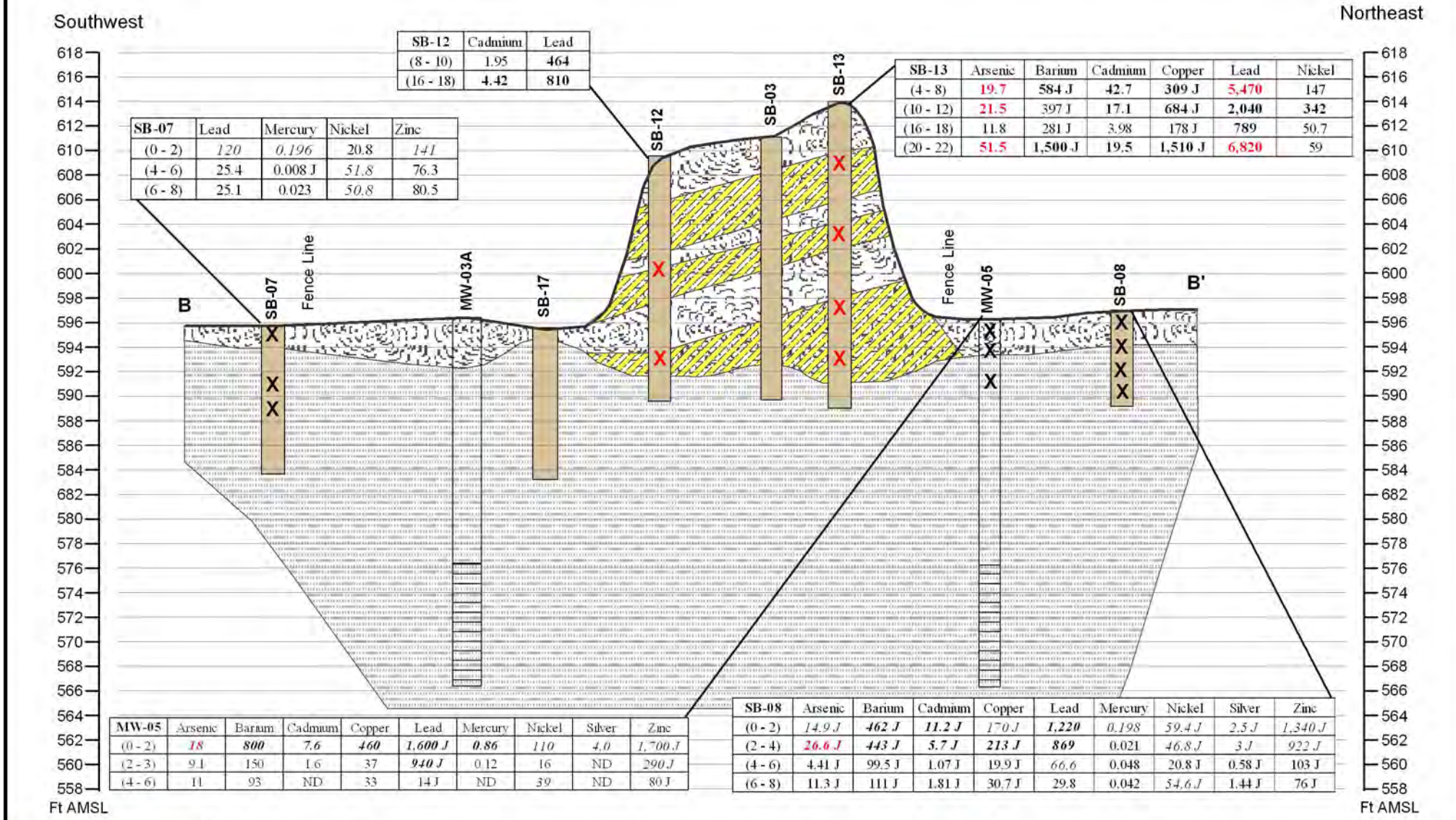
FIGURE 13
Cross Section A-A'
Restricted Residential and Industrial Criteria Exceedances

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	TWP	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



SB-12	Cadmium	Lead
(8 - 10)	1.95	464
(16 - 18)	4.42	810

SB-07	Lead	Mercury	Nickel	Zinc
(0 - 2)	*120*	*0.196*	20.8	*141*
(4 - 6)	25.4	0.008 J	*51.8*	76.3
(6 - 8)	25.1	0.023	*50.8*	80.5

SB-13	Arsenic	Barium	Cadmium	Copper	Lead	Nickel
(4 - 8)	19.7	584 J	42.7	309 J	5,470	147
(10 - 12)	21.5	397 J	17.1	684 J	2,040	342
(16 - 18)	11.8	281 J	3.98	178 J	789	50.7
(20 - 22)	51.5	1,500 J	19.5	1,510 J	6,820	59

MW-05	Arsenic	Barium	Cadmium	Copper	Lead	Mercury	Nickel	Silver	Zinc
(0 - 2)	*18*	***800***	*7.6*	*460*	*1,600 J*	*0.86*	*110*	*4.0*	*1,700 J*
(2 - 3)	9.1	150	1.6	37	*940 J*	0.12	16	ND	*290 J*
(4 - 6)	11	93	ND	33	14 J	ND	*39*	ND	80 J

SB-08	Arsenic	Barium	Cadmium	Copper	Lead	Mercury	Nickel	Silver	Zinc
(0 - 2)	*14.9 J*	*462 J*	*11.2 J*	*170 J*	*1,220*	*0.198*	*59.4 J*	*2.5 J*	*1,340 J*
(2 - 4)	*26.6 J*	*443 J*	*5.7 J*	*213 J*	*869*	0.021	*46.8 J*	*3 J*	*922 J*
(4 - 6)	4.41 J	99.5 J	1.07 J	19.9 J	*66.6*	0.048	20.8 J	0.58 J	103 J
(6 - 8)	11.3 J	111 J	1.81 J	30.7 J	29.8	0.042	*54.6 J*	1.44 J	76 J

Borings
- Boring
- Monitoring Well
- Well Screen

Geology
- Fill
- Ash-Impacted Fill
- Glaciolacustrine

Note:
- Italics exceeds Unrestricted Use criteria (only compared to offsite well results).
- Bold exceeds Restricted Residential criteria.
- Red and bold exceeds Industrial criteria.
- SB-03 sampled during the previous 2005 investigation.

X = Sample interval with RR or Industrial criteria exceedance

X = Sample interval with UU, RR or Industrial criteria exceedance

Feet
0 35 70 140
1 inch = 70 feet

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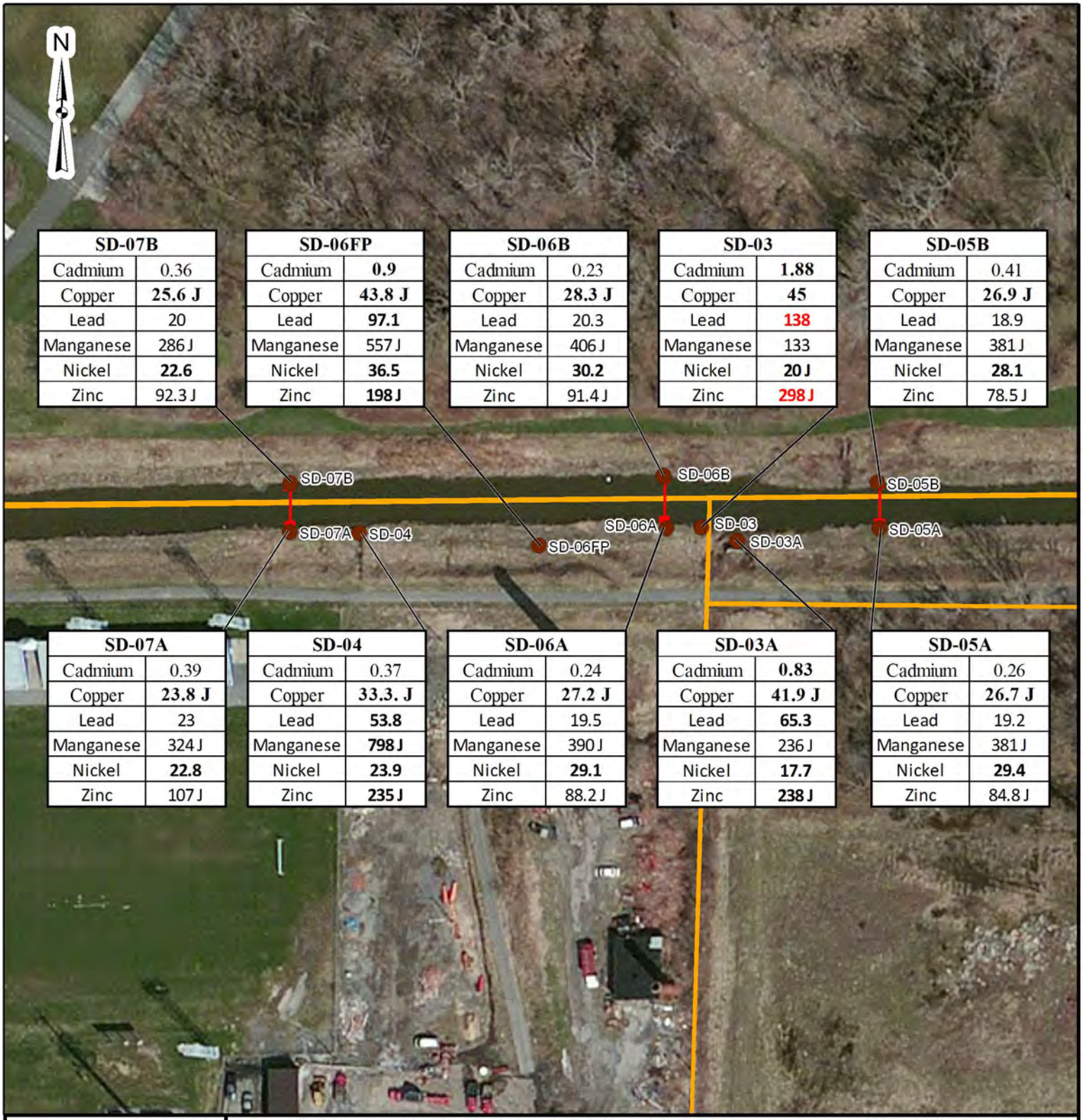
FIGURE 14
Cross Section B-B'
Restricted Residential and Industrial Criteria Exceedances

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	ALK	ALK	TWP	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



SD-07B	
Cadmium	0.36
Copper	**25.6 J**
Lead	20
Manganese	286 J
Nickel	**22.6**
Zinc	92.3 J

SD-06FP	
Cadmium	**0.9**
Copper	**43.8 J**
Lead	**97.1**
Manganese	557 J
Nickel	**36.5**
Zinc	**198 J**

SD-06B	
Cadmium	0.23
Copper	**28.3 J**
Lead	20.3
Manganese	406 J
Nickel	**30.2**
Zinc	91.4 J

SD-03	
Cadmium	**1.88**
Copper	**45**
Lead	**138**
Manganese	133
Nickel	**20 J**
Zinc	**298 J**

SD-05B	
Cadmium	0.41
Copper	**26.9 J**
Lead	18.9
Manganese	381 J
Nickel	**28.1**
Zinc	78.5 J

SD-07A	
Cadmium	0.39
Copper	**23.8 J**
Lead	23
Manganese	324 J
Nickel	**22.8**
Zinc	107 J

SD-04	
Cadmium	0.37
Copper	**33.3. J**
Lead	**53.8**
Manganese	**798 J**
Nickel	**23.9**
Zinc	**235 J**

SD-06A	
Cadmium	0.24
Copper	**27.2 J**
Lead	19.5
Manganese	390 J
Nickel	**29.1**
Zinc	88.2 J

SD-03A	
Cadmium	**0.83**
Copper	**41.9 J**
Lead	**65.3**
Manganese	236 J
Nickel	**17.7**
Zinc	**238 J**

SD-05A	
Cadmium	0.26
Copper	**26.7 J**
Lead	19.2
Manganese	381 J
Nickel	**29.4**
Zinc	84.8 J

Tax Parcels
Sediment Transect
Sediment Sampling Location

Note: Bold indicates exceedance of Lowest Effect Level (LEL)
Red and Bold indicates exceedance of Severe Effect Level (SEL)

Feet
0 50 100 200
1 in = 100 ft

Location	
Analyte	Result (mg/kg)

Source: ESRI Base Layer

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FIGURE 15
Sediment Inorganic Results

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI

Tax Parcels

Stormwater Outfall

Feet

0 50 100 200

1 in = 100 ft

Location	
Analyte	Result (µg/L)

Note: Bold indicates exceedance of NYSDEC Class C surface water criteria

Source: ESRI Base Layer

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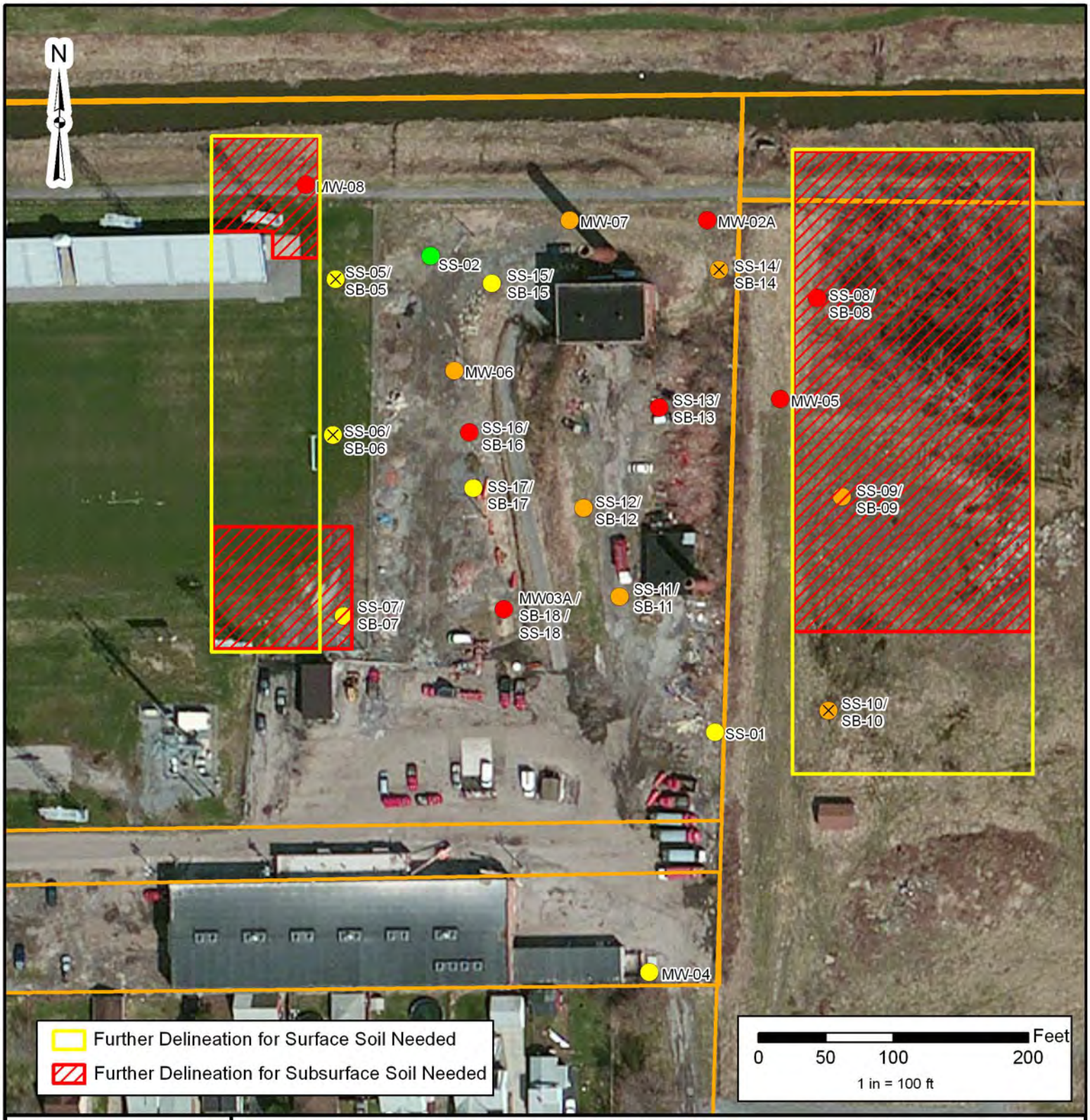
LACKAWANNA, NEW YORK

FIGURE 16
Stormwater Outfall
Inorganic Results

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



- Analytes Exceed Industrial / Restricted Residential / Unrestricted Use Standards
- Analytes Exceed Restricted Residential / Unrestricted Use Standards
- Analytes Exceed Restricted Residential / Unrestricted Use Standards in Surface Soil Only
- Analytes Exceed Unrestricted Use Standards
- Analytes Exceed Unrestricted Use Standards in Surface Soil Only
- No Analytes Detected Above Soil Criteria Objectives

Source: ESRI Base Layer

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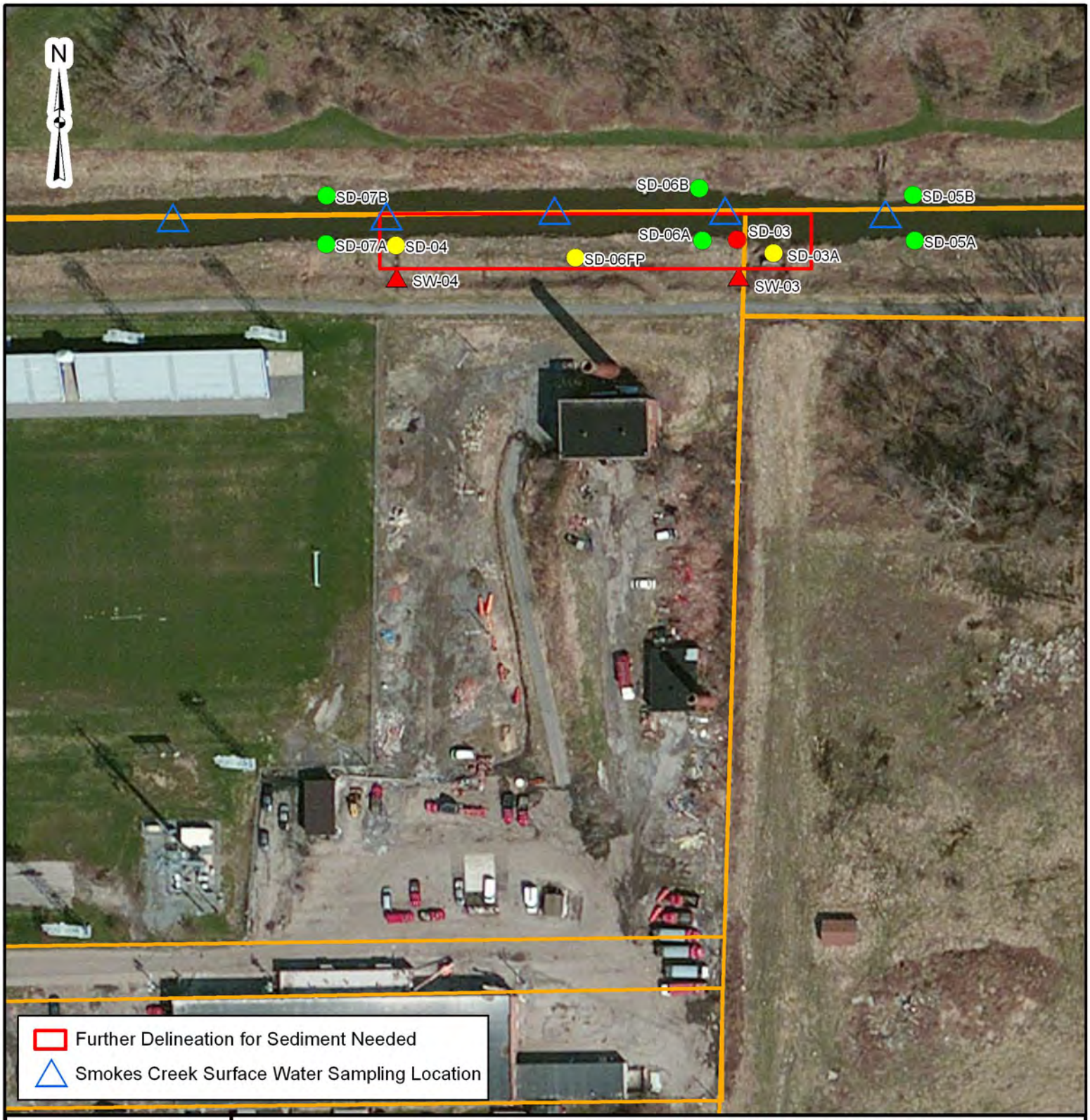
FIGURE 17
Soil Exceedences and Proposed Additional Sampling Areas

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI



- Sediment Analytes Exceeding SEL / LEL
- Sediment Analytes Exceeding LEL
- Sediment Analytes Within Background Concentrations
- Surface Water Analytes Exceeding Class C Standards
- Sediment Transect

Feet
0 50 100 200
1 in = 100 ft

Source: ESRI Base Layer

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FIGURE 18
Sediment and Surface Water
Proposed Additional
Sampling Areas

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
JMB	CJS	ALK	LM	AS SHOWN	APRIL 2013	1490710	14907.10 - Lackawanna Incinerator/ GIS/MXD/RI

TABLE 1 REMEDIAL INVESTIGATION ANALYTICAL PROGRAM

	Sample Matrix	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticides	TAL Metals	Cyanide	Air VOC	TOC	MNA
FIRST PHASE										
SURFACE SOIL SAMPLING										
No. of Samples	Surface Soil	16	16	16	16	16	16	---	---	---
Field Duplicate		1	1	1	1	1	1	---	---	---
Trip Blank/Rinse Blank		3	2	2	2	2	2	---	---	---
MS/MSD		2	2	2	2	2	2	---	---	---
Total No. of Analyses		22	21	21	21	21	21	---	---	---
SEDIMENT SAMPLING[(a)]										
No. of Samples	Sediment	9	9	9	9	9	9	---	9	---
Field Duplicate		1	1	1	1	1	1	---	1	---
Trip Blank/Rinse Blank		1	1	1	1	1	1	---	---	---
MS/MSD		2	2	2	2	2	2	---		---
Total No. of Analyses		13	12	12	12	12	12	---	10	---
SUBSURFACE SOIL – DIRECT PUSH / HOLLOW-STEM AUGER SOIL BORINGS										
No. of Samples	Subsurface Soil	20	99	20	20	99	20	---	---	---
Field Duplicate		1	6	1	1	6	1	---	---	---
Trip Blank/Rinse Blank		---	---	---	---	---	---	---	---	---
MS/MSD		2	12	2	2	12	2	---	---	---
Total No. of Analyses		23	118	23	23	118	23	---	---	---

(a) Storm/surface water collected from the two stormwater outfalls in conjunction with sediment sampling at those locations, and analyzed for full list (volume dependent).

NOTE: TCL = Target Compound List.
VOC = Volatile Organic Compound.
SVOC = Semivolatile Organic Compound
PCB = Polychlorinated Biphenyls
TAL = Target Analyte List.
TOC = Total Organic Compound
MNA = Monitored Natural Attenuation
--- = No sample taken.
MS/MSD = Matrix Spike/Matrix Spike Duplicate

TCL VOC by U.S. Environmental Protection Agency (EPA) Method 8260B, TCL SVOC by EPA Method 8270C, TCL PCB by EPA Method 8082, TCL pesticide organochlorine pesticides by EPA Method 8081A, cyanide by EPA Method 9010B, TAL metals by EPA Method 6010B and mercury by EPA Method 7470A/7471A; TOC (Lloyd Kahn Method for solids; SM5310 for water); Air VOCs by TO-15; MNA: Biological Oxygen Demand (SM5210B); Chemical Oxygen Demand (5220D); alkalinity (SM2320B); chloride, nitrate, nitrite and sulfate (EPA Method 300), sulfide (SM4500); hardness by SM2340.

Laboratory quality control samples collected at a rate of 1 per 20 samples, per matrix. Rinse blanks are collected one per analysis per field sampling day for samples collected using non-dedicated equipment. Trip Blanks – one per day per cooler containing aqueous samples for VOC analysis.

TABLE 1 REMEDIAL INVESTIGATION ANALYTICAL PROGRAM

FIRST PHASE (CONTINUED)										
	Sample Matrix	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticides	TAL Metals	Cyanide	Air VOC	TOC	MNA
GROUNDWATER SAMPLING										
No. of Samples	Groundwater	7	7	7	7	7	7	---	7	7
Field Duplicate		1	1	1	1	1	1	---	1	1
Trip Blank/Rinse Blank		2	1	1	1	1	1	---	---	---
MS/MSD		2	2	2	2	2	2	---	---	---
Total No. of Analyses		12	11	11	11	11	11	---	8	8
STORM WATER / SURFACE WATER SAMPLING[(a)]										
No. of Samples	Water	2	2	2	2	2	2	---	---	2
Field Duplicate		1	1	1	1	1	1	---	---	1
Trip Blank/Rinse Blank		2	1	1	1	1	1	---	---	1
MS/MSD		2	2	2	2	2	2	---	---	2
Total No. of Analyses		7	6	6	6	6	6	---	---	7
SUBSLAB / INDOOR AIR[(b)]										
No. of Samples	Soil Vapor Sub-slab / Indoor Air	---	---	---	---	---	---	2 / 3	---	---
Field Duplicate		---	---	---	---	---	---	1 / 1	---	---
Trip Blank/Rinse Blank		---	---	---	---	---	---	---	---	---
MS/MSD		---	---	---	---	---	---	---	---	---
Total No. of Analyses		---	---	---	---	---	---	3 / 4	---	---

(b) Air samples collected during the winter heating season.

TABLE 1 REMEDIAL INVESTIGATION ANALYTICAL PROGRAM

PROPOSED SECOND PHASE[(c)]										
	Sample Matrix	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticides	TAL Metals	Cyanide	TCLP Metals	TOC	MNA
SURFACE SOIL SAMPLING										
No. of Samples	Surface Soil	---	12	---	---	16	---	---	---	---
Field Duplicate		---	1	---	---	1	---	---	---	---
Trip Blank/Rinse Blank		---	1	---	---	1	---	---	---	---
MS/MSD		---	2	---	---	2	---	---	---	---
Total No. of Analyses		---	16	---	---	20	---	---	---	---
SEDIMENT SAMPLING										
No. of Samples	Sediment	---	---	---	---	5	5	---	5	---
Field Duplicate		---	---	---	---	1	1	---	1	---
Trip Blank/Rinse Blank		---	---	---	---	1	1	---	---	---
MS/MSD		---	---	---	---	2	2	---	---	---
Total No. of Analyses		---	---	---	---	9	9	---	6	---
SUBSURFACE SOIL – DIRECT PUSH										
No. of Samples	Subsurface Soil	---	16	---	---	22	---	---	---	---
Field Duplicate		---	1	---	---	2	---	---	---	---
Trip Blank/Rinse Blank		---	1	---	---	2	---	---	---	---
MS/MSD		---	2	---	---	4	---	---	---	---
Total No. of Analyses		---	20	---	---	30	---	---	---	---

(c) Second phase sample quantities are estimated, with the exception of groundwater samples.

TABLE 1 REMEDIAL INVESTIGATION ANALYTICAL PROGRAM

PROPOSED SECOND PHASE (CONTINUED) [c]										
	Sample Matrix	TCL VOC	TCL SVOC	TCL PCB	TCL Pesticides	TAL Metals	Cyanide	TCLP Metals	TOC	MNA
WASTE CHARACTERIZATION SAMPLING										
No. of Samples	Subsurface Soil	---	---	---	---	---	---	4	---	---
Field Duplicate		---	---	---	---	---	---	---	---	---
Trip Blank/Rinse Blank		---	---	---	---	---	---	---	---	---
MS/MSD		---	---	---	---	---	---	---	---	---
Total No. of Analyses		---	---	---	---	---	---	4	---	---
GROUNDWATER SAMPLING										
No. of Samples	Groundwater	7	7	---	---	7	7	---	7	7
Field Duplicate		1	1	---	---	1	1	---	1	1
Trip Blank/Rinse Blank		3	1	---	---	1	1	---	---	---
MS/MSD		2	2	---	---	2	2	---	---	---
Total No. of Analyses		13	11	---	---	11	11	---	8	8
SURFACE WATER SAMPLING[d]										
No. of Samples	Water	---	---	---	---	5	5	---	---	5
Field Duplicate		---	---	---	---	1	1	---	---	1
Trip Blank/Rinse Blank		---	---	---	---	1	1	---	---	---
MS/MSD		---	---	---	---	2	2	---	---	---
Total No. of Analyses		---	---	---	---	9	9	---	---	6

(c) Second phase sample quantities are estimated, with the exception of groundwater samples.
(d) Surface water samples to be collected from Smokes Creek and will also be analyzed for hardness.

TABLE 2 WELL CONSTRUCTION DETAILS

Well ID	Well Type	Installation Date	Easting	Northing	Well Completion	Ground Surface Elevation	Elevation Top of casing	Well Diameter (in.)	Total Depth (ft bgs)	Screen Midpoint (ft bgs)	Screened Interval (ft bgs)
MW-01	Destroyed	7-Apr-05	---	---	Flush	595.48	597.53	2	22.00	17.00	11.0 - 21.0
MW-02	Decommissioned	7-Apr-05	---	---	Stick-up	595.70	598.03	2	25.00	20.00	14.0 - 24.0
MW-02A	Overburden - PVC	29-Oct-12	1084753.7	1027450.4	Stick-up	595.70	598.19	2	29.60	24.60	19.60 - 29.60
MW-03	Destroyed	7-Apr-05	---	---	Flush	596.35	596.03	2	31.00	26.00	20.0 - 30.0
MW-03A	Overburden - PVC	31-Oct-12	1084602.8	1027162.3	Flush	596.40	596.14	2	29.92	24.92	19.92 - 29.92
MW-04	Overburden - PVC	5-Nov-12	1084710.8	1026893.5	Flush	596.45	596.22	2	29.64	24.64	19.64 - 29.64
MW-05	Overburden - PVC	2-Nov-12	1084807.6	1027317.9	Flush	596.33	596.03	2	30.02	25.02	20.02 - 30.02
MW-06	Overburden - PVC	1-Nov-12	1084566.4	1027339.1	Flush	595.07	594.80	2	29.45	24.45	19.45 - 29.45
MW-07	Overburden - PVC	5-Nov-12	1084651.7	1027450.3	Flush	595.41	595.15	2	27.14	22.14	17.14 - 27.14
MW-08	Overburden - PVC	6-Nov-12	1084456.2	1027476.6	Flush	593.56	593.42	2	23.06	18.06	13.06 - 23.06

NOTE: bgs = Below ground surface
--- = Unknown
PVC = Polyvinyl chloride
Northing and Easting coordinates are in New York State Plane Coordinate System, Western Zone, NAD 83 (CORS 96) Datum
Vertical values are referenced to the North American Vertical Datum of 1988 (NAVD 88)
All values are in feet.

TABLE 3 GROUNDWATER ELEVATIONS

Well ID	Elevation TIC (ft AMSL)	Depth to Water (ft TIC) Well		Groundwater Elevation (ft AMSL)	
		11/7-8/2012[a]	11/28-29/2012[b]	11/7-8/2012[a]	11/28-29/2012[b]
MW-02A	598.19	14.44	13.84	583.75	584.35
MW-03A	596.14	6.21	7.53	589.93	588.61
MW-04	596.22	24.66	8.45	571.56	587.77
MW-05	596.03	11.05	10.34	584.98	585.69
MW-06	594.80	7.39	7.23	587.41	587.57
MW-07	595.15	11.22	10.68	583.93	584.47
MW-08	593.42	10.92	10.34	582.50	583.08

(a) November 7-8, 2012 measurements made prior to development.

(b) November 28-29, 2012 measurements made prior to groundwater sampling.

NOTE: ID = Identification
TIC = Top of inner well casing
AMSL = Above mean sea level

TABLE 4 DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL

Location	NYSDEC PART 375		MW-02A	MW-06	MW-06	MW-07	MW-07	MW-08	MW-08
Sample ID	Soil Cleanup Objectives[(a)]		MW-02A (2-3)	MW-06 (0-2)	MW-06 (0-2) DUP	MW-07(2-4)	MW-07(2-4) DUP	MW-08(0-2)	MW-08(0-2) DUP
Lab ID	Restricted -		AC69070-002	AC69070-009	AC69070-012	AC69114-007	AC69114-016	AC69114-011	AC69114-013
Sample Date	Residential	Industrial	10/29/12	10/31/12	10/31/12	11/05/12	11/05/12	11/06/12	11/06/12
Acetone	100	1,000	0.012 U	0.300	0.190	0.014 UJ	0.012 U	0.012 U	0.012 U
Benzene	4.8	89	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
2-Butanone	100	1,000	0.002 U	0.033 J	0.002 UJ	0.003 UJ	0.002 U	0.002 U	0.002 U
Carbon disulfide	---	---	0.002 U	0.003	0.002 U	0.003 UJ	0.002 U	0.002 U	0.002 U
Ethylbenzene	41	780	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl cyclohexane	---	1,000	0.002 U	0.002 U	0.002 U	0.003 UJ	0.002 U	0.002 U	0.002 U
Methylene chloride	100	1,000	0.003	0.044	0.050	0.003 UJ	0.002 U	0.002 U	0.002 U
Styrene	---	---	0.002 U	0.002 U	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U
Tetrachloroethene	19	300	0.002 U	0.002 U	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U
Toluene	100	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylene, o	100	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, m+p	100	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, Total	100	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Restricted Residential and Industrial Soil Cleanup Objectives.

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
--- = Not analyzed
U = Not detected; the associated number is the reporting limit.
J = Estimated concentration.
Table includes only those volatile organic compounds detected in one or more samples.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Method 8260. Data Validation completed by Data Validation Services.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).

TABLE 4 DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL

Location	NYSDEC PART 375		SB-05	SB-05	SB-06	SB-08	SB-09	SB-09	SB-10
Sample ID	Soil Cleanup Objectives[(a)]		SB-05(2-4)	SB-05(2-4) DUP	SB-06(2-4)	SB-08(2-4)	SB-09(0-2)	SB-09(2-4)	SB-10(0-2)
Lab ID	Restricted -		D4714-10	D4714-15	D4714-06	D4715-04	D4714-20	D4714-21	D4714-16
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Acetone	100	1,000	0.030 U	0.030 U	0.029 U	0.029 U	0.035 U	0.030 U	0.030 U
Benzene	4.8	89	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U
2-Butanone	100	1,000	0.030 U	0.030 U	0.029 U	0.029 U	0.035 U	0.030 U	0.030 U
Carbon disulfide	---	---	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U
Ethylbenzene	41	780	0.006 U	0.002 J	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U
Methyl cyclohexane	---	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U
Methylene chloride	100	1,000	0.006 U	0.007 U	0.011 U	0.006 U	0.021 U	0.028 U	0.013 U
Styrene	---	---	0.006 U	0.006 U	0.006 U	0.006 U	0.007 UJ	0.006 U	0.006 U
Tetrachloroethene	19	300	0.006 U	0.006 U	0.006 U	0.006 U	0.013 J	0.005 J	0.006 U
Toluene	100	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U
Xylene, o	100	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U
Xylenes, m+p	100	1,000	0.012 U	0.002 J	0.012 U	0.012 U	0.003 J	0.012 U	0.012 U
Xylenes, Total	100	1,000	---	---	---	---	---	---	---

TABLE 4 DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL

Location	NYSDEC PART 375		SB-11	SB-11	SB-12	SB-12	SB-13	SB-13	SB-13	SB-14	SB-14
Sample ID	Soil Cleanup Objectives[(a)]		SB-11(4-6)	SB-11(4-6) DUP	SB-12A(0-2)	SB-12A(0-2) DUP	SB13(0-4)	SB13(20-22)	SB13(8-10)	SB14(0-2)	SB14(0-2) DUP
Lab ID	Restricted -		D4759-03	D4759-06	D4715-14	D4715-17	D4685-01	D4685-09RE	D4685-05	D4690-01	D4685-11
Sample Date	Residential	Industrial	11/06/12	11/06/12	10/26/12	10/26/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acetone	100	1,000	0.110	0.120	0.028 U	0.030 U	0.029 U	0.032 U	0.029 U	0.029 U	0.031 U
Benzene	4.8	89	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U	0.006 U
2-Butanone	100	1,000	0.020 J	0.025 J	0.028 U	0.030 U	0.029 U	0.032 U	0.029 U	0.029 U	0.031 U
Carbon disulfide	---	---	0.002 J	0.003 J	0.006 U	0.006 U	0.006 U	0.007	0.006 U	0.006 U	0.006 U
Ethylbenzene	41	780	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 UJ	0.006 U	0.006 U	0.006 U
Methyl cyclohexane	---	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.003 J	0.006 U	0.006 U	0.006 U
Methylene chloride	100	1,000	0.006 U	0.006 U	0.012 U	0.028 U	0.010 U	0.009 U	0.006 U	0.006 U	0.006 U
Styrene	---	---	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 UJ	0.006 U	0.006 U	0.006 U
Tetrachloroethene	19	300	0.006 U	0.006 U	0.006 U	0.006 U	0.001 J	0.006 UJ	0.007	0.006 U	0.006 U
Toluene	100	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U	0.006 U
Xylene, o	100	1,000	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 UJ	0.006 U	0.006 U	0.006 U
Xylenes, m+p	100	1,000	0.013 U	0.011 U	0.011 U	0.012 U	0.001 J	0.013 UJ	0.011 U	0.012 U	0.012 U
Xylenes, Total	100	1,000	---	---	---	---	---	---	---	---	---

TABLE 4 DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL

Location	NYSDEC PART 375		SB-15	SB-17	SB-18	SB-18	SS-01	SS-02	SS-05	SS-06	SS-07	SS-08
Sample ID	Soil Cleanup Objectives[a]		SB15(0-2)	SB17(2-4)	SB-18(0-2)	SB-18(0-2) DUP	SS-01	SS-02	SS-05	SS-06	SS-07	SS-08
Lab ID	Restricted -		D4685-16	D4690-13	D4715-07	D4715-13	D4664-01	D4664-02	D4664-03	D4664-04	D4664-05	D4664-06
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/26/12	10/26/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Acetone	100	1,000	0.032 U	0.031 U	0.030 U	0.030 NJ	0.030 U	0.030 U	0.029 U	0.031 U	0.030 U	0.032 U
Benzene	4.8	89	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
2-Butanone	100	1,000	0.032 U	0.031 U	0.030 U	0.036 U	0.030 U	0.030 U	0.029 U	0.031 U	0.030 U	0.032 U
Carbon disulfide	---	---	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Ethylbenzene	41	780	0.006 U	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Methyl cyclohexane	---	1,000	0.006 U	0.006 U	0.006 U	0.007 UJ	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Methylene chloride	100	1,000	0.006 U	0.006 U	0.007 U	0.066 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Styrene	---	---	0.006 U	0.006 U	0.006 UJ	0.010 J	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Tetrachloroethene	19	300	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Toluene	100	1,000	0.006 U	0.006 U	0.006 U	0.002 J	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylene, o	100	1,000	0.006 U	0.006 U	0.006 U	0.007 UJ	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylenes, m+p	100	1,000	0.013 U	0.012 U	0.012 U	0.014 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Xylenes, Total	100	1,000	---	---	---	---	---	---	---	---	---	---

NOTE: N = Tentatively identified constituent.

TABLE 4 DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL

Location	NYSDEC PART 375		SS-09	SS-10	SS-11	SS-12	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Sample ID	Soil Cleanup Objectives[(a)]		SS-09	SS-10	SS-11	SS-12	SS-12 DUP	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Lab ID	Restricted -		D4664-07	D4664-08	D4664-09	D4664-10	D4664-19	D4664-11	D4664-12	D4664-15	D4664-16	D4664-17	D4664-18
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Acetone	100	1,000	0.038 U	0.034 U	0.032 U	0.029 U	0.029 U	0.030 U	0.032 U	0.029 U	0.030 U	0.030 U	0.024 J
Benzene	4.8	89	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
2-Butanone	100	1,000	0.038 U	0.034 U	0.032 U	0.029 U	0.029 U	0.030 U	0.032 U	0.029 U	0.030 U	0.030 U	0.031 U
Carbon disulfide	---	---	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Ethylbenzene	41	780	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Methyl cyclohexane	---	1,000	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Methylene chloride	100	1,000	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Styrene	---	---	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Tetrachloroethene	19	300	0.007 J	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Toluene	100	1,000	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylene, o	100	1,000	0.008 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 U	0.006 U	0.006 U	0.006 U	0.006 U
Xylenes, m+p	100	1,000	0.015 U	0.014 U	0.013 U	0.011 U	0.012 U	0.012 U	0.013 U	0.011 U	0.012 U	0.012 U	0.012 U
Xylenes, Total	100	1,000	---	---	---	---	---	---	---	---	---	---	---

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		MW-02A				MW-03A	
Sample ID	Soil Cleanup Objectives[a]		915206-MW-02A (0-1)	915206-MW-02A (2-3)	915206-MW-02A (6-7)	915206-MW-02A (8-10)	915206-MW-03A (0-2)	915206-MW-03A (4-6)
Lab ID	Restricted -		AC69070-001	AC69070-002	AC69070-003	AC69070-004	AC69070-007	AC69070-008
Sample Date	Residential	Industrial	10/29/12	10/29/12	10/29/12	10/29/12	10/31/12	10/31/12
Acenaphthene	100	1,000	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Anthracene	100	1,000	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Benzaldehyde	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Benzo(a)anthracene	1	11	0.039 U	0.210	0.040 U	0.040 U	**1.0**	0.044 U
Benzo(a)pyrene	1	1.1	0.039 U	0.230	0.040 U	0.040 U	**1.1**	0.044 U
Benzo(b)fluoranthene	1	11	0.039 U	0.290	0.040 U	0.040 U	**1.7**	0.044 U
Benzo(g,h,i)perylene	100	1,000	0.039 U	0.310	0.040 U	0.040 U	1.1	0.044 U
Benzo(k)fluoranthene	3.9	110	0.039 U	0.160 U	0.040 U	0.040 U	0.600	0.044 U
bis(2-Ethylhexyl)phthalate	---	---	0.039 U	0.580	0.040 U	0.040 U	0.590	0.044 U
Butylbenzylphthalate	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Carbazole	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Chrysene	3.9	110	0.039 U	0.230	0.040 U	0.040 U	1.1	0.044 U
Dibenzo(a,h)anthracene	0.33	1.1	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Dibenzofuran	59	1,000	0.010 U	0.041 U	0.010 U	0.010 U	0.095 U	0.011 U
Dimethylphthalate	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Di-n-butylphthalate	---	---	0.019 U	0.082 U	0.020 U	0.020 U	0.190 U	0.022 U
Fluoranthene	100	1,000	0.039 U	0.230	0.040 U	0.040 U	1.7	0.044 U
Fluorene	100	1,000	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.039 U	0.190	0.040 U	0.040 U	**0.8**	0.044 U
2-Methylnaphthalene	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
2-Methylphenol	100	1,000	0.010 U	0.041 U	0.010 U	0.010 U	0.095 U	0.011 U
3&4-Methylphenol	100	1,000	0.010 U	0.041 U	0.010 U	0.010 U	0.095 U	0.011 U
Naphthalene	100	1,000	0.010 U	0.041 U	0.010 U	0.010 U	0.095 U	0.011 U
N-Nitrosodiphenylamine	---	---	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Pentachlorophenol	6.7	55	0.190 U	0.810 U	0.200 U	0.200 U	1.9 U	0.220 U
Phenanthrene	100	1,000	0.039 U	0.170	0.040 U	0.040 U	0.820	0.044 U
Phenol	100	1,000	0.039 U	0.160 U	0.040 U	0.040 U	0.380 U	0.044 U
Pyrene	100	1,000	0.039 U	0.290	0.040 U	0.040 U	1.7	0.044 U

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Restricted Residential and IndustRIal Soil Cleanup Objective.

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
U = Not detected; the associated number is the reporting limit.
N = Tentatively identified constituent.
J = Estimated concentration.
Analytical data results obtained by Chemtech Consulting Group or Hampton Clarke Veritech using SW-846 Method 8270. Data Validation completed by Data Validation Services.
Table includes only those semivolatile organic compounds detected in one or more samples.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bolded values indicate exceedance of NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives.
Bolded and shaded values indicate exceedance of NYSDEC Part 375 Industrial Soil Cleanup Objectives.

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		MW-04			MW-05			
Sample ID	Soil Cleanup Objectives[a]		915206-MW-04(0-2)	915206-MW-04(2-4)	915206-MW-04(4-6)	915206-MW-05 (0-2)	915206-MW-05 (2-3)	915206-MW-05 (3-4)	915206-MW-05 (4-6)
Lab ID	Restricted -		AC69114-001	AC69114-002	AC69114-003	AC69070-015	AC69070-016	AC69070-017	AC69070-018
Sample Date	Residential	Industrial	11/02/12	11/02/12	11/02/12	11/01/12	11/01/12	11/01/12	11/01/12
Acenaphthene	100	1,000	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Anthracene	100	1,000	0.049 U	0.043 U	0.041 U	0.240	0.042 U	0.039 U	0.040 U
Benzaldehyde	---	---	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Benzo(a)anthracene	1	11	0.160	0.043 U	0.041 U	**1.0**	0.094	0.039 U	0.040 U
Benzo(a)pyrene	1	1.1	0.130	0.043 U	0.041 U	**1.1**	0.086	0.039 U	0.040 U
Benzo(b)fluoranthene	1	11	0.210	0.043 U	0.041 U	**1.6**	0.140	0.039 U	0.040 U
Benzo(g,h,i)perylene	100	1,000	0.150	0.043 U	0.041 U	0.980	0.085	0.039 U	0.040 U
Benzo(k)fluoranthene	3.9	110	0.079	0.043 U	0.041 U	0.460	0.053	0.039 U	0.040 U
bis(2-Ethylhexyl)phthalate	---	---	0.400	0.043 U	0.088	0.310	0.069	0.039 U	0.046
Butylbenzylphthalate	---	---	0.049 U	0.043 U	0.041 U	4.1	0.042 U	0.039 U	0.040 U
Carbazole	---	---	0.049 U	0.043 U	0.041 U	0.094	0.011 U	0.039 U	0.040 U
Chrysene	3.9	110	0.180	0.043 U	0.041 U	1.1	0.110	0.039 U	0.040 U
Dibenzo(a,h)anthracene	0.33	1.1	0.049 U	0.043 U	0.041 U	0.240	0.042 U	0.039 U	0.040 U
Dibenzofuran	59	1,000	0.036 NJ	0.011 U	0.010 U	0.021 U	0.011 U	0.010 U	0.010 U
Dimethylphthalate	---	---	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Di-n-butylphthalate	---	---	0.025 U	0.022 U	0.021 U	0.150	0.042 U	0.020 U	0.020 U
Fluoranthene	100	1,000	0.230	0.043 U	0.041 U	2.0	0.150	0.039 U	0.040 U
Fluorene	100	1,000	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.110	0.043 U	0.041 U	**0.8**	0.081	0.039 U	0.040 U
2-Methylnaphthalene	---	---	0.110	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
2-Methylphenol	100	1,000	0.012 U	0.011 U	0.010 U	0.021 U	0.011 U	0.010 U	0.010 U
3&4-Methylphenol	100	1,000	0.012 U	0.011 U	0.010 U	0.021 U	0.011 U	0.010 U	0.010 U
Naphthalene	100	1,000	0.074	0.011 U	0.010 U	0.043	0.011 U	0.010 U	0.010 U
N-Nitrosodiphenylamine	---	---	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Pentachlorophenol	6.7	55	0.250 U	0.220 U	0.210 U	0.430 U	0.071 U	0.200 U	0.200 U
Phenanthrene	100	1,000	0.180	0.043 U	0.041 U	1.1	0.084	0.039 U	0.040 U
Phenol	100	1,000	0.049 U	0.043 U	0.041 U	0.085 U	0.042 U	0.039 U	0.040 U
Pyrene	100	1,000	0.240	0.043 U	0.041 U	2.0	0.160	0.039 U	0.040 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		MW-06				MW-07				
Sample ID	Soil Cleanup Objectives[a]		915206-MW-06 (0-2)	915206-MW-06 (0-2)-DUP	915206-MW-06 (2-4)	915206-MW-06 (4-6)	915206-MW-07(0-2)	915206-MW-07(2-4)	915206-MW-07 (2-4) DUP	915206-MW-07(4-6)	915206-MW-07(6-8)
Lab ID	Restricted - Residential	Industrial	AC69070-009	AC69070-012	AC69070-013	AC69070-014	AC69114-006	AC69114-007	AC69114-016	AC69114-009	AC69114-010
Sample Date			10/31/12	10/31/12	10/31/12	10/31/12	11/05/12	11/05/12	11/05/12	11/05/12	11/05/12
Acenaphthene	100	1,000	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Anthracene	100	1,000	0.120 U	0.240 U	0.041 U	0.250 U	0.130	0.046 U	0.041 U	0.043 U	0.040 U
Benzaldehyde	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Benzo(a)anthracene	1	11	0.250	0.360	0.041 U	0.310	0.480	0.046 U	0.048	0.050	0.040 U
Benzo(a)pyrene	1	1.1	0.230	0.350	0.041 U	0.300	0.350	0.046 U	0.042	0.043 U	0.040 U
Benzo(b)fluoranthene	1	11	0.370	0.510	0.041 U	0.460	0.490	0.060	0.059	0.054	0.040 U
Benzo(g,h,i)perylene	100	1,000	0.190	0.340	0.041 U	0.320	0.250	0.047	0.049	0.046	0.040 U
Benzo(k)fluoranthene	3.9	110	0.120 U	0.240 U	0.041 U	0.250 U	0.180	0.046 U	0.041 U	0.043 U	0.040 U
bis(2-Ethylhexyl)phthalate	---	---	0.120 U	0.240 U	0.069	0.730	0.440	0.530 J	0.200 J	0.370	0.073
Butylbenzylphthalate	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Carbazole	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Chrysene	3.9	110	0.280	0.400	0.041 U	0.330	0.420	0.046 U	0.049	0.047	0.040 U
Dibenzo(a,h)anthracene	0.33	1.1	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Dibenzofuran	59	1,000	0.030 U	0.060 U	0.010 U	0.062 U	0.030 U	0.012 U	0.010 U	0.011 U	0.010 U
Dimethylphthalate	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Di-n-butylphthalate	---	---	0.061 U	0.120 U	0.021 U	0.120 U	0.110	0.038	0.038	0.025	0.020 U
Fluoranthene	100	1,000	0.430	0.600	0.041 U	0.520	0.770	0.053	0.060	0.098	0.040 U
Fluorene	100	1,000	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.170	0.240	0.041 U	0.290	0.220	0.046 U	0.046	0.043 U	0.040 U
2-Methylnaphthalene	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
2-Methylphenol	100	1,000	0.030 U	0.060 U	0.010 U	0.062 U	0.030 U	0.012 U	0.010 U	0.011 U	0.010 U
3&4-Methylphenol	100	1,000	0.030 U	0.060 U	0.010 U	0.062 U	0.030 U	0.012 U	0.010 U	0.011 U	0.010 U
Naphthalene	100	1,000	0.030 U	0.060 U	0.010 U	0.062 U	0.030 U	0.012 U	0.010 U	0.011 U	0.010 U
N-Nitrosodiphenylamine	---	---	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Pentachlorophenol	6.7	55	0.600 UJ	1.2 U	0.210 U	1.2 U	0.610 U	0.230 U	0.200 U	0.220 U	0.200 U
Phenanthrene	100	1,000	0.220	0.420	0.041 U	0.250 U	0.610	0.046 U	0.046	0.081	0.040 U
Phenol	100	1,000	0.120 U	0.240 U	0.041 U	0.250 U	0.120 U	0.046 U	0.041 U	0.043 U	0.040 U
Pyrene	100	1,000	0.420	0.620	0.041 U	0.530	0.820	0.066	0.077	0.096	0.040 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		MW-08				SB-05				
Sample ID	Soil Cleanup Objectives[a]		915206-MW-08(0-2)	915206-MW-08 (0-2)-DUP	915206-MW-08(2-4)	915206-MW-08(6-8)	915206-SB-05(0-2)	915206-SB-05(2-4)	915206-SB-05 (2-4)-DUP	915206-SB-05(4-6)	915206-SB-05(6-8)
Lab ID	Restricted -		AC69114-011	AC69114-013	AC69114-014	AC69114-015	D4714-09	D4714-10	D4714-15	D4714-13	D4714-14
Sample Date	Residential	Industrial	11/06/12	11/06/12	11/06/12	11/06/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Acenaphthene	100	1,000	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Anthracene	100	1,000	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzaldehyde	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzo(a)anthracene	1	11	0.042 U	0.077	0.120	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzo(a)pyrene	1	1.1	0.042 U	0.073	0.100	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzo(b)fluoranthene	1	11	0.052	0.110	0.140	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzo(g,h,i)perylene	100	1,000	0.042	0.078	0.088	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Benzo(k)fluoranthene	3.9	110	0.042 U	0.041 U	0.058	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
bis(2-Ethylhexyl)phthalate	---	---	0.091 J	0.220 J	0.380	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Butylbenzylphthalate	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Carbazole	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Chrysene	3.9	110	0.042 UJ	0.084 J	0.120	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Dibenzo(a,h)anthracene	0.33	1.1	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Dibenzofuran	59	1,000	0.010 U	0.010 U	0.010 U	0.010 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Dimethylphthalate	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.397 U	0.214 J	0.402 U
Di-n-butylphthalate	---	---	0.021 U	0.020 U	0.025	0.020 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Fluoranthene	100	1,000	0.056	0.110	0.200	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Fluorene	100	1,000	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.042 U	0.065	0.076	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
2-Methylnaphthalene	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
2-Methylphenol	100	1,000	0.010 U	0.010 U	0.010 U	0.010 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
3&4-Methylphenol	100	1,000	0.010 U	0.010 U	0.010 U	0.010 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Naphthalene	100	1,000	0.010 U	0.010 U	0.010 U	0.010 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
N-Nitrosodiphenylamine	---	---	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Pentachlorophenol	6.7	55	0.210 U	0.200 U	0.210 U	0.200 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Phenanthrene	100	1,000	0.042 U	0.051	0.140	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Phenol	100	1,000	0.042 U	0.041 U	0.041 U	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U
Pyrene	100	1,000	0.068	0.130	0.210	0.040 U	8.2 U	0.390 U	0.400 U	0.400 U	0.400 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-06				SB-07			
Sample ID	Soil Cleanup Objectives[a]		915206-SB-06(0-2)	915206-SB-06(2-4)	915206-SB-06(4-6)	915206-SB-06(6-8)	915206-SB-07(0-2)	915206-SB-07(2-4)	915206-SB-07(4-6)	915206-SB-07(6-8)
Lab ID	Restricted - Residential	Industrial	D4714-05	D4714-06	D4714-07	D4714-08	D4714-01	D4714-02	D4714-03	D4714-04
Sample Date			10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Acenaphthene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Anthracene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Benzaldehyde	---	---	0.470	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Benzo(a)anthracene	1	11	0.420 U	0.380 U	0.400 U	0.400 U	0.170 J	0.410 U	0.410 U	0.400 U
Benzo(a)pyrene	1	1.1	0.420 U	0.380 U	0.400 U	0.400 U	0.160 J	0.410 U	0.410 U	0.400 U
Benzo(b)fluoranthene	1	11	0.420 U	0.380 U	0.400 U	0.400 U	0.250 J	0.410 U	0.410 U	0.400 U
Benzo(g,h,i)perylene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Benzo(k)fluoranthene	3.9	110	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
bis(2-Ethylhexyl)phthalate	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Butylbenzylphthalate	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Carbazole	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Chrysene	3.9	110	0.420 U	0.380 U	0.400 U	0.400 U	0.190 J	0.410 U	0.410 U	0.400 U
Dibenzo(a,h)anthracene	0.33	1.1	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Dibenzofuran	59	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Dimethylphthalate	---	---	0.192 J	0.383 U	0.228 J	0.397 U	0.180 J	0.197 J	0.199 J	0.397 U
Di-n-butylphthalate	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Fluoranthene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.300 J	0.410 U	0.410 U	0.400 U
Fluorene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
2-Methylnaphthalene	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
2-Methylphenol	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
3&4-Methylphenol	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Naphthalene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
N-Nitrosodiphenylamine	---	---	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Pentachlorophenol	6.7	55	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Phenanthrene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Phenol	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.400 U	0.410 U	0.410 U	0.400 U
Pyrene	100	1,000	0.420 U	0.380 U	0.400 U	0.400 U	0.240 J	0.410 U	0.410 U	0.400 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-08				SB-09			
Sample ID	Soil Cleanup Objectives[a]		915206-SB-08(0-2)	915206-SB-08(2-4)	915206-SB-08(4-6)	915206-SB-08(6-8)	915206-SB-09(0-2)	915206-SB-09(2-4)	915206-SB-09(4-6)	915206-SB-09(6-8)
Lab ID	Restricted -		D4715-03	D4715-04	D4715-05	D4715-06	D4714-20	D4714-21	D4715-01	D4715-02
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Acenaphthene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Anthracene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	3.1	0.390 U	0.390 U	0.390 U
Benzaldehyde	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Benzo(a)anthracene	1	11	2.1 U	0.390 U	0.400 U	0.410 U	**7.0**	0.390 U	0.390 U	0.390 U
Benzo(a)pyrene	1	1.1	2.1 U	0.390 U	0.400 U	0.410 U	**7.3 J**	0.390 U	0.390 U	0.390 U
Benzo(b)fluoranthene	1	11	2.1 U	0.390 U	0.400 U	0.410 U	**8.5 J**	0.390 U	0.390 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	4.6 J	0.390 U	0.390 U	0.390 U
Benzo(k)fluoranthene	3.9	110	2.1 U	0.390 U	0.400 U	0.410 U	3.2 J	0.390 U	0.390 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Butylbenzylphthalate	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Carbazole	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Chrysene	3.9	110	2.1 U	0.390 U	0.400 U	0.410 U	**7.1**	0.390 U	0.390 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Dibenzofuran	59	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Dimethylphthalate	---	---	2.1 U	0.387 U	0.396 U	0.407 U	2.3 U	0.391 U	0.159 J	0.392 U
Di-n-butylphthalate	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Fluoranthene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	19	0.390 U	0.390 U	0.390 U
Fluorene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	2.1 U	0.390 U	0.400 U	0.410 U	**4.3**	0.390 U	0.390 U	0.390 U
2-Methylnaphthalene	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
2-Methylphenol	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
3&4-Methylphenol	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Naphthalene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
N-Nitrosodiphenylamine	---	---	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Pentachlorophenol	6.7	55	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Phenanthrene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	12	0.390 U	0.390 U	0.390 U
Phenol	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	2.3 U	0.390 U	0.390 U	0.390 U
Pyrene	100	1,000	2.1 U	0.390 U	0.400 U	0.410 U	15	0.390 U	0.390 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-10				SB-11				
Sample ID	Soil Cleanup Objectives[a]		915206-SB-10(0-2)	915206-SB-10(2-4)	915206-SB-10(4-6)	915206-SB-10(6-8)	915206-SB-11(0-2)	915206-SB-11(2-4)	915206-SB-11(4-6)	915206-SB-11 (4-6)-DUP	915206-SB-11(6-8)
Lab ID	Restricted -		D4714-16	D4714-17	D4714-18	D4714-19	D4759-01	D4759-02	D4759-03	D4759-06	D4759-07
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12
Acenaphthene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Anthracene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Benzaldehyde	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Benzo(a)anthracene	1	11	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.230 J
Benzo(a)pyrene	1	1.1	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.230 J
Benzo(b)fluoranthene	1	11	0.400 U	0.380 U	0.410 U	0.400 U	0.230 J	0.200 J	0.420 U	0.380 U	0.310 J
Benzo(g,h,i)perylene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Benzo(k)fluoranthene	3.9	110	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.180 J
Butylbenzylphthalate	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Carbazole	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Chrysene	3.9	110	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.180 J	0.420 U	0.380 U	0.270 J
Dibenzo(a,h)anthracene	0.33	1.1	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Dibenzofuran	59	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Dimethylphthalate	---	---	0.397 U	0.383 U	0.411 U	0.402 U	0.412	0.495	0.534	0.512	0.439
Di-n-butylphthalate	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Fluoranthene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.170 J	0.350 J	0.420 U	0.380 U	0.430
Fluorene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
2-Methylnaphthalene	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
2-Methylphenol	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
3&4-Methylphenol	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Naphthalene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Pentachlorophenol	6.7	55	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Phenanthrene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.210 J	0.420 U	0.380 U	0.280 J
Phenol	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.390 U	0.420 U	0.380 U	0.390 U
Pyrene	100	1,000	0.400 U	0.380 U	0.410 U	0.400 U	0.380 U	0.300 J	0.420 U	0.380 U	0.340 J

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-11				
Sample ID	Soil Cleanup Objectives[a]		915206-SB-11(8-10)	915206-SB-11(10-12)	915206-SB-11(12-14)	915206-SB-11(14-16)	915206-SB-11(16-18)
Lab ID	Restricted -		D4759-08	D4759-09	D4759-10	D4759-11	D4759-12
Sample Date	Residential	Industrial	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12
Acenaphthene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Anthracene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzaldehyde	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzo(a)anthracene	1	11	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzo(a)pyrene	1	1.1	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzo(b)fluoranthene	1	11	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Benzo(k)fluoranthene	3.9	110	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Butylbenzylphthalate	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Carbazole	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Chrysene	3.9	110	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Dibenzofuran	59	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Dimethylphthalate	---	---	0.385 J	0.426	0.481	0.455	0.200 J
Di-n-butylphthalate	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Fluoranthene	100	1,000	0.400 U	0.170 J	0.440 U	0.400 U	0.390 U
Fluorene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
2-Methylnaphthalene	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
2-Methylphenol	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
3&4-Methylphenol	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Naphthalene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Pentachlorophenol	6.7	55	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Phenanthrene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Phenol	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U
Pyrene	100	1,000	0.400 U	0.400 U	0.440 U	0.400 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-12						
Sample ID	Soil Cleanup Objectives[a]		915206-SB-12A(0-2)	915206-SB-12A (0-2)-DUP	915206-SB12(8-10)	915206-SB12(12-14)	915206-SB12(14-16)	915206-SB12(16-18)	915206-SB12(18-20)
Lab ID	Restricted -		D4715-14	D4715-17	D4690-18	D4690-19	D4690-20	D4690-21	D4690-22
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Anthracene	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Benzaldehyde	---	---	0.430	0.280 J	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Benzo(a)anthracene	1	11	0.330 J	0.240 J	0.400 U	0.410 U	0.400 U	0.510	0.410 U
Benzo(a)pyrene	1	1.1	0.330 J	0.250 J	0.400 U	0.410 U	0.400 U	0.490 J	0.410 U
Benzo(b)fluoranthene	1	11	0.470	0.330 J	0.400 U	0.410 U	0.190 J	0.660 J	0.410 U
Benzo(g,h,i)perylene	100	1,000	0.250 J	0.200 J	0.400 U	0.410 U	0.400 U	0.340 J	0.410 U
Benzo(k)fluoranthene	3.9	110	0.160 J	0.400 U	0.400 U	0.410 U	0.400 U	0.250 J	0.410 U
bis(2-Ethylhexyl)phthalate	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Butylbenzylphthalate	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Carbazole	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Chrysene	3.9	110	0.360 J	0.250 J	0.400 U	0.410 U	0.400 U	0.560	0.410 U
Dibenzo(a,h)anthracene	0.33	1.1	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Dibenzofuran	59	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Dimethylphthalate	---	---	0.370 U	0.400 U	0.691	0.347 J	0.467	0.448	0.399 J
Di-n-butylphthalate	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Fluoranthene	100	1,000	0.61	0.51	0.400 U	0.410 U	0.210 J	1.0 J	0.410 U
Fluorene	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.240 J	0.180 J	0.400 U	0.410 U	0.400 U	0.320 J	0.410 U
2-Methylnaphthalene	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
2-Methylphenol	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
3&4-Methylphenol	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Naphthalene	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
N-Nitrosodiphenylamine	---	---	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Pentachlorophenol	6.7	55	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Phenanthrene	100	1,000	0.340 J	0.300 J	0.400 U	0.410 U	0.400 U	0.550	0.410 U
Phenol	100	1,000	0.370 U	0.400 U	0.400 U	0.410 U	0.400 U	0.410 U	0.410 U
Pyrene	100	1,000	0.470	0.390 J	0.400 U	0.410 U	0.170 J	0.840	0.410 U

NOTE: --- = Not Analyzed

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-13						
Sample ID	Soil Cleanup Objectives[a]		915206-SB13(0-4)	915206-SB13(8-10)	915206-SB13(10-12)	915206-SB13(12-14)	915206-SB13(16-18)	915206-SB13(20-22)	915206-SB13(23-25)
Lab ID	Restricted -		D4685-01	D4685-05	D4685-06	D4685-07	D4685-08	D4685-09	D4685-10
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Anthracene	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.460 J	0.390 U
Benzaldehyde	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Benzo(a)anthracene	1	11	0.190 J	0.380 U	0.360 U	0.400 U	0.400 U	**1.0 J**	0.390 U
Benzo(a)pyrene	1	1.1	0.220 J	0.380 U	0.360 U	0.400 U	0.400 U	**1.1 J**	0.390 U
Benzo(b)fluoranthene	1	11	0.250 J	0.380 U	0.360 U	0.400 U	0.400 U	**1.3 J**	0.390 U
Benzo(g,h,i)perylene	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.660 J	0.390 U
Benzo(k)fluoranthene	3.9	110	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.500 J	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.380 U	0.380 U	0.320 J	0.820	0.400 U	0.220 J	0.390 U
Butylbenzylphthalate	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Carbazole	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.250 J	0.390 U
Chrysene	3.9	110	0.200 J	0.380 U	0.360 U	0.400 U	0.400 U	0.990 J	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.240 J	0.390 U
Dibenzofuran	59	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Dimethylphthalate	---	---	0.698	0.559	0.488	0.703	0.567	0.597	0.438
Di-n-butylphthalate	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Fluoranthene	100	1,000	0.290 J	0.380 U	0.210 J	0.400 U	0.400 U	2.0	0.390 U
Fluorene	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	**0.58**	0.390 U
2-Methylnaphthalene	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
2-Methylphenol	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	1.2 J	0.390 U
3&4-Methylphenol	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.210 NJ	0.390 U
Naphthalene	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.190 J	0.390 U
Pentachlorophenol	6.7	55	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	0.420 U	0.390 U
Phenanthrene	100	1,000	0.380 U	0.380 U	0.150 J	0.400 U	0.400 U	1.3	0.390 U
Phenol	100	1,000	0.380 U	0.380 U	0.360 U	0.400 U	0.400 U	7.0 D	0.390 U
Pyrene	100	1,000	0.250 J	0.380 U	0.150 J	0.400 U	0.400 U	1.4	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-14						
Sample ID	Soil Cleanup Objectives[a]		915206-SB14(0-2)	915206-SB-14 (0-2)-DUP	915206-SB14(2-4)	915206-SB14(4-6)	915206-SB14(6-8)	915206-SB14(8-10)	915206-SB14(10-12)
Lab ID	Restricted -		D4690-01	D4685-11	D4690-04	D4690-05	D4690-06	D4690-07	D4690-08
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Anthracene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzaldehyde	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzo(a)anthracene	1	11	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzo(a)pyrene	1	1.1	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzo(b)fluoranthene	1	11	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzo(g,h,i)perylene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Benzo(k)fluoranthene	3.9	110	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
bis(2-Ethylhexyl)phthalate	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Butylbenzylphthalate	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Carbazole	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Chrysene	3.9	110	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Dibenzo(a,h)anthracene	0.33	1.1	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Dibenzofuran	59	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Dimethylphthalate	---	---	0.441	0.588	0.523	0.580	0.588	0.700	0.423
Di-n-butylphthalate	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Fluoranthene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Fluorene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
2-Methylnaphthalene	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
2-Methylphenol	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
3&4-Methylphenol	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Naphthalene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
N-Nitrosodiphenylamine	---	---	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Pentachlorophenol	6.7	55	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Phenanthrene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Phenol	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U
Pyrene	100	1,000	0.380 U	0.410 U	0.400 U	0.400 U	0.400 U	0.410 U	0.420 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-15				
Sample ID	Soil Cleanup Objectives[a]		915206-SB15(0-2)	915206-SB15(2-4)	915206-SB15(4-6)	915206-SB15(6-8)	915206-SB15(8-10)
Lab ID	Restricted -		D4685-16	D4685-17	D4685-18	D4685-19	D4685-20
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Anthracene	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Benzaldehyde	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Benzo(a)anthracene	1	11	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Benzo(a)pyrene	1	1.1	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Benzo(b)fluoranthene	1	11	0.210 J	0.400 U	0.400 U	0.390 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Benzo(k)fluoranthene	3.9	110	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Butylbenzylphthalate	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Carbazole	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Chrysene	3.9	110	0.190 J	0.400 U	0.400 U	0.390 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Dibenzofuran	59	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Dimethylphthalate	---	---	0.675	0.688	0.574	0.610	0.507
Di-n-butylphthalate	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Fluoranthene	100	1,000	0.380 J	0.400 U	0.400 U	0.390 U	0.390 U
Fluorene	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
2-Methylnaphthalene	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
2-Methylphenol	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
3&4-Methylphenol	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Naphthalene	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Pentachlorophenol	6.7	55	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Phenanthrene	100	1,000	0.200 J	0.400 U	0.400 U	0.390 U	0.390 U
Phenol	100	1,000	0.420 U	0.400 U	0.400 U	0.390 U	0.390 U
Pyrene	100	1,000	0.260 J	0.400 U	0.400 U	0.390 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-16							
Sample ID	Soil Cleanup Objectives[a]		915206-SB16(0-2)	915206-SB16(2-4)	915206-SB16(4-6)	915206-SB16(6-8)	915206-SB16(8-10)	915206-SB16(10-12)	915206-SB16(12-14)	915206-SB16(14-16)
Lab ID	Restricted -		D4690-09	D4690-10	D4690-11	D4690-12	D4685-12	D4685-13	D4685-14	D4685-15
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Anthracene	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzaldehyde	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzo(a)anthracene	1	11	0.450	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzo(a)pyrene	1	1.1	0.460 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzo(b)fluoranthene	1	11	0.590 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	0.300 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Benzo(k)fluoranthene	3.9	110	0.200 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Butylbenzylphthalate	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Carbazole	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Chrysene	3.9	110	0.510	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Dibenzofuran	59	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Dimethylphthalate	---	---	0.448	0.470	0.743	0.636	0.765	0.623	0.711	0.571
Di-n-butylphthalate	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Fluoranthene	100	1,000	1.0 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Fluorene	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.260 J	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
2-Methylnaphthalene	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
2-Methylphenol	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
3&4-Methylphenol	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Naphthalene	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Pentachlorophenol	6.7	55	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Phenanthrene	100	1,000	0.760	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Phenol	100	1,000	0.370 U	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U
Pyrene	100	1,000	0.920	0.380 U	0.420 U	0.390 U	0.420 U	0.390 U	0.390 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-17					
Sample ID	Soil Cleanup Objectives[(a)]		915206-SB17(0-2)	915206-SB17(2-4)	915206-SB17(4-6)	915206-SB17(6-8)	915206-SB17(8-10)	915206-SB17(10-12)
Lab ID	Restricted - Residential	Industrial	D4685-21	D4690-13	D4690-14	D4690-15	D4690-16	D4690-17
Sample Date			10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Acenaphthene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Anthracene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzaldehyde	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzo(a)anthracene	1	11	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzo(a)pyrene	1	1.1	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzo(b)fluoranthene	1	11	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Benzo(k)fluoranthene	3.9	110	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Butylbenzylphthalate	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Carbazole	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Chrysene	3.9	110	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Dibenzofuran	59	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Dimethylphthalate	---	---	0.546	0.656	0.416	0.414	0.503	0.760
Di-n-butylphthalate	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Fluoranthene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Fluorene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
2-Methylnaphthalene	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
2-Methylphenol	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
3&4-Methylphenol	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Naphthalene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
N-Nitrosodiphenylamine	---	---	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Pentachlorophenol	6.7	55	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Phenanthrene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Phenol	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U
Pyrene	100	1,000	0.370 U	0.410 U	0.410 U	0.400 U	0.400 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SB-18					SS-01	SS-02
Sample ID	Soil Cleanup Objectives[a]		915206-SB-18(0-2)	915206-SB-18 (0-2)-DUP	915206-SB-18(2-4)	915206-SB-18(8-10)	915206-SB-18(10-12)	915206-SS-01	915206-SS-02
Lab ID	Restricted -		D4715-07	D4715-13	D4715-10	D4715-11	D4715-12	D4664-01	D4664-02
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/24/12	10/24/12
Acenaphthene	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Anthracene	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Benzaldehyde	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Benzo(a)anthracene	1	11	4 U	0.470 U	**1.2 J**	0.390 U	0.390 U	4 U	0.390 U
Benzo(a)pyrene	1	1.1	4 U	0.470 U	**1.2 J**	0.390 U	0.390 U	4 U	0.390 U
Benzo(b)fluoranthene	1	11	**1.6 J**	0.470 UJ	**1.6 J**	0.390 U	0.390 U	4 U	0.390 U
Benzo(g,h,i)perylene	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.170 J
Benzo(k)fluoranthene	3.9	110	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
bis(2-Ethylhexyl)phthalate	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Butylbenzylphthalate	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Carbazole	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Chrysene	3.9	110	4 U	0.470 U	1.2 J	0.390 U	0.390 U	4 U	0.390 U
Dibenzo(a,h)anthracene	0.33	1.1	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Dibenzofuran	59	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Dimethylphthalate	---	---	4 U	0.277 J	2 U	0.387 U	0.391 U	4 U	0.489
Di-n-butylphthalate	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Fluoranthene	100	1,000	2.3 J	0.470 UJ	2.5	0.390 U	0.390 U	4 U	0.390 U
Fluorene	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Indeno(1,2,3-cd)pyrene	0.5	11	4 U	0.470 U	**0.820 J**	0.390 U	0.390 U	4 U	0.390 U
2-Methylnaphthalene	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
2-Methylphenol	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
3&4-Methylphenol	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Naphthalene	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
N-Nitrosodiphenylamine	---	---	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Pentachlorophenol	6.7	55	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Phenanthrene	100	1,000	4 U	0.470 U	1.2 J	0.390 U	0.390 U	4 U	0.390 U
Phenol	100	1,000	4 U	0.470 U	2 U	0.390 U	0.390 U	4 U	0.390 U
Pyrene	100	1,000	1.7 J	0.470 UJ	1.7 J	0.390 U	0.390 U	4 U	0.390 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11
Sample ID	Soil Cleanup Objectives[a]		915206-SS-05	915206-SS-06	915206-SS-07	915206-SS-08	915206-SS-09	915206-SS-10	915206-SS-11
Lab ID	Restricted -		D4664-03	D4664-04	D4664-05	D4664-06	D4664-07	D4664-08	D4664-09
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Acenaphthene	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.240 J	0.460 U	4.2 U
Anthracene	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.610	0.290 J	4.2 U
Benzaldehyde	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Benzo(a)anthracene	1	11	7.7 U	0.190 J	7.8 U	0.510	**1.9**	0.730	4.2 U
Benzo(a)pyrene	1	1.1	7.7 U	0.410 U	7.8 U	0.600 J	**1.9 J**	0.640 J	4.2 U
Benzo(b)fluoranthene	1	11	7.7 U	0.230 J	7.8 U	0.810 J	**2.7 J**	0.810 J	4.2 U
Benzo(g,h,i)perylene	100	1,000	7.7 U	0.410 U	7.8 U	0.730 J	0.880 J	0.380 J	4.2 U
Benzo(k)fluoranthene	3.9	110	7.7 U	0.410 U	7.8 U	0.340 J	1.1 J	0.340 J	4.2 U
bis(2-Ethylhexyl)phthalate	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.240 J	0.460 U	4.2 U
Butylbenzylphthalate	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Carbazole	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.350 J	0.460 U	4.2 U
Chrysene	3.9	110	7.7 U	0.200 J	7.8 U	0.550	2.0	0.740	4.2 U
Dibenzo(a,h)anthracene	0.33	1.1	7.7 U	0.410 U	7.8 U	**0.380 J**	0.240 J	0.460 U	4.2 U
Dibenzofuran	59	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.250 J	0.460 U	4.2 U
Dimethylphthalate	---	---	7.7 U	0.618	7.8 U	0.544	0.872	0.799	4.2 U
Di-n-butylphthalate	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	2.5	4.2 U
Fluoranthene	100	1,000	7.7 U	0.400 J	7.8 U	1.2	4.1 D	1.6	4.2 U
Fluorene	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.260 J	0.460 U	4.2 U
Indeno(1,2,3-cd)pyrene	0.5	11	7.7 U	0.410 U	7.8 U	**0.58**	**0.76**	0.340 J	4.2 U
2-Methylnaphthalene	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
2-Methylphenol	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
3&4-Methylphenol	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Naphthalene	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.550	0.460 U	4.2 U
N-Nitrosodiphenylamine	---	---	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Pentachlorophenol	6.7	55	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Phenanthrene	100	1,000	7.7 U	0.250 J	7.8 U	0.740	2.8	1.2	4.2 U
Phenol	100	1,000	7.7 U	0.410 U	7.8 U	0.420 U	0.500 U	0.460 U	4.2 U
Pyrene	100	1,000	7.7 U	0.310 J	7.8 U	0.960	3.5	1.2	4.2 U

TABLE 5 SOIL SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	NYSDEC PART 375		SS-12		SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Sample ID	Soil Cleanup Objectives[a]		915206-SS-12	915206-SS-12-DUP	915206-SS-13	915206-SS-14	915206-SS-15	915206-SS-16	915206-SS-17	915206-SS-18
Lab ID	Restricted -		D4664-10	D4664-19	D4664-11	D4664-12	D4664-15	D4664-16	D4664-17	D4664-18
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Acenaphthene	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Anthracene	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Benzaldehyde	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Benzo(a)anthracene	1	11	3.8 U	3.8 U	3.9 U	0.190 J	19 U	2 U	7.9 U	0.410 U
Benzo(a)pyrene	1	1.1	3.8 U	3.8 U	3.9 U	0.220 J	19 U	2 U	7.9 U	0.410 U
Benzo(b)fluoranthene	1	11	3.8 U	3.8 U	3.9 U	0.300 J	19 U	2 U	7.9 U	0.410 U
Benzo(g,h,i)perylene	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Benzo(k)fluoranthene	3.9	110	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
bis(2-Ethylhexyl)phthalate	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Butylbenzylphthalate	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Carbazole	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Chrysene	3.9	110	3.8 U	3.8 U	3.9 U	0.240 J	19 U	2 U	7.9 U	0.410 U
Dibenzo(a,h)anthracene	0.33	1.1	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Dibenzofuran	59	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Dimethylphthalate	---	---	3.8 U	3.8 U	3.9 U	0.753	19 U	2 U	7.9 U	0.515
Di-n-butylphthalate	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Fluoranthene	100	1,000	3.8 U	3.8 U	3.9 U	0.540	19 U	2 U	7.9 U	0.410 U
Fluorene	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Indeno(1,2,3-cd)pyrene	0.5	11	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
2-Methylnaphthalene	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
2-Methylphenol	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
3&4-Methylphenol	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Naphthalene	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
N-Nitrosodiphenylamine	---	---	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Pentachlorophenol	6.7	55	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Phenanthrene	100	1,000	3.8 U	3.8 U	3.9 U	0.260 J	19 U	2 U	7.9 U	0.410 U
Phenol	100	1,000	3.8 U	3.8 U	3.9 U	0.430 U	19 U	2 U	7.9 U	0.410 U
Pyrene	100	1,000	3.8 U	3.8 U	3.9 U	0.400 J	19 U	2 U	7.9 U	0.410 U

TABLE 6 ORGANIC COMPOUND EXCEEDANCES IN SOIL

SampleID	NYSDEC PART 375 Soil Cleanup Objectives[a]			MW-02A (2-3)	MW-03A (0-2)	MW-05 (0-2)	MW-06 (0-2)	MW-06 (0-2) DUP	MW-07(2-4)	MW-07(2-4) DUP	MW-08(0-2)
Lab ID	Unrestricted	Restricted -		AC69070-002	AC69070-007	AC69070-015	AC69070-009	AC69070-012	AC69114-007	AC69114-016	AC69114-011
Sample Date	Use	Residential	Industrial	10/29/12	10/31/12	11/01/12	10/31/12	10/31/12	11/05/12	11/05/12	11/06/12
VOLATILE ORGANIC COMPOUNDS											
Acetone	0.05	100	500	---			**0.30**	**0.19**	---	---	---
Methylene chloride	0.05	100	1,000	---			---	**0.05**	---	---	---
SEMIVOLATILE ORGANIC COMPOUNDS											
Benzo(a)anthracene	1	1	11	---	**1.0**	**1.0**	---	---	---	---	---
Benzo(a)pyrene	1	1	1.1	---	***1.1***	***1.1***	---	---	---	---	---
Benzo(b)fluoranthene	1	1	11	---	**1.7**	**1.6**	---	---	---	---	---
Benzo(k)fluoranthene	0.8			---			---	---	---	---	---
Chrysene	1	3.9	110	---	**1.1**	**1.1**	---	---	---	---	---
Dibenzo(a,h)anthracene	0.33	0.33	1.1	---	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	---	**0.8**	**0.8**	---	---	---	---	---
2-Methylphenol	0.33	100	1,000	---			---	---	---	---	---
Phenol	0.33	100	1,000	---			---	---	---	---	---
PESTICIDES											
p,p'-DDD	0.0033	13	180	---			---	---	**0.006**	**0.010**	---
p,p'-DDE	0.0033	8.9	120	**0.007**			---	---	---	---	**0.016**
p,p'-DDT	0.033	7.9	94	---			---	---	---	---	**0.012 NJ**

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Soil Cleanup Objectives (SCOs).

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
--- = Not detected above criteria.
N =
J = Estimated concentration.
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane

Analytical data results obtained by Chemtech Consulting Group using SW-846 Methods 8260/8270/8081. Data Validation completed by Data Validation Services.
Table includes exceedances only for those organics detected at or above criteria in one or more sample.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bolded values indicate exceedance of NYSDEC Part 375 Unrestricted Use SCOs.
Shaded values indicate exceedance of NYSDEC Part 375 Residential SCOs.
Italicized values indicate exceedance of NYSDEC Part 375 Industrial SCOs.

TABLE 6 ORGANIC COMPOUND EXCEEDANCES IN SOIL

SampleID	NYSDEC PART 375 Soil Cleanup Objectives[a]			MW-08(0-2) DUP	SB-09(0-2)	SB-11(4-6)	SB-11(4-6) DUP	SB13(20-22)	SB-18(0-2)	SB-18(2-4)	SS-08	SS-09	SS-11
Lab ID	Unrestricted	Restricted -		AC69114-013	D4714-20	D4759-03	D4759-06	D4685-09	D4715-07	D4715-10	D4664-06	D4664-07	D4664-09
Sample Date	Use	Residential	Industrial	11/06/12	10/26/12	11/06/12	11/06/12	10/25/12	10/26/12	10/26/12	10/24/12	10/24/12	10/24/12
VOLATILE ORGANIC COMPOUNDS													
Acetone	0.05	100	500	---		**0.11**	**0.12**				---	---	---
Methylene chloride	0.05	100	1,000	---		---	---				---	---	---
SEMIVOLATILE ORGANIC COMPOUNDS													
Benzo(a)anthracene	1	1	11	---	**7.0**	---	---	**1.0 J**	---	**1.2 J**	---	**1.9**	---
Benzo(a)pyrene	1	1	1.1	---	***7.3 J***	---	---	***1.1 J***	---	***1.2 J***	---	***1.9 J***	---
Benzo(b)fluoranthene	1	1	11	---	**8.5 J**	---	---	**1.3 J**	**1.6 J**	**1.6 J**	---	**2.7 J**	---
Benzo(k)fluoranthene	0.8			---		---	---	---	---	---	---	---	---
Chrysene	1	3.9	110	---	**7.1**	---	---	---	---	---	---	---	---
Dibenzo(a,h)anthracene	0.33	0.33	1.1	---	---	---	---	---	---	---	**0.380 J**	---	---
Indeno(1,2,3-cd)pyrene	0.5	0.5	11	---	**4.3**	---	---	**0.58**	---	**0.820 J**	**0.58**	**0.76**	---
2-Methylphenol	0.33	100	1,000	---		---	---	**1.2 J**	---	---	---	---	---
Phenol	0.33	100	1,000	---		---	---	**7.0 D**	---	---	---	---	---
PESTICIDES													
p,p'-DDD	0.0033	13	180	---		---	---				---	---	---
p,p'-DDE	0.0033	8.9	120	**0.019**		---	---				**0.004**	**0.004**	---
p,p'-DDT	0.033	7.9	94	**0.014 NJ**		---	---				**0.010 J**	**0.040 J**	**0.004 J**

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		MW-02A	MW-04	MW-06		MW-07	
Sample ID	Soil Cleanup Objectives[a]		MW-02A (2-3)	MW-04(2-4)	MW-06 (0-2)	MW-06 (0-2) DUP	MW-07(2-4)	MW-07(2-4) DUP
Lab ID	Restricted -		AC69070-002	AC69114-002	AC69070-009	AC69070-012	AC69114-007	AC69114-016
Sample Date	Residential	Industrial	10/29/12	11/02/12	10/31/12	10/31/12	11/05/12	11/05/12
Chlordane	4.2	47	0.038 J	0.032 U	0.030 U	0.060 U	0.035 U	0.030 U
Chlordane, alpha-	4.2	47	---	---	---	---	---	---
Chlordane, beta-	---	---	---	---	---	---	---	---
p,p'-DDD	13	180	0.008 U	0.003 U	0.003 U	0.006 U	0.006	0.010
p,p'-DDE	8.9	120	0.007	0.003 U	0.003 U	0.006 U	0.004 U	0.003 U
p,p'-DDT	7.9	94	0.003 U	0.003 U	0.003 U	0.006 U	0.004 U	0.003 U
Aroclor (Total)	1	25	0.079 J	0.110 UJ	0.030 U	0.056 J	0.035 U	0.030 U
Aroclor-1254	---	---	0.079 J	0.110 UJ	0.030 U	0.030 U	0.035 U	0.030 U
Aroclor-1260	---	---	0.030 U	0.032 U	0.030 U	0.030 U	0.035 U	0.030 U

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Restricted Residential and Industrial Soil Cleanup Objective.

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
J = Estimated concentration.
--- = Not analyzed
U = Not detected; the associated number is the reporting limit.
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
Analytical data results obtained by Chemtech Consulting Group or Hampton Clark Veritech using SW-846 Methods 8081/8082. Data Validation completed by Data Validation Services.
Table includes only those pesticides/polychlorinated biphenyls detected in one or more sample.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		MW-08	MW-08	SB-05	SB-05	SB-06	SB-08
Sample ID	Soil Cleanup Objectives[a]		MW-08(0-2)	MW-08(0-2) DUP	SB-05(2-4)	SB-05(2-4) DUP	SB-06(2-4)	SB-08(2-4)
Lab ID	Restricted -		AC69114-011	AC69114-013	D4714-10	D4714-15	D4714-06	D4715-04
Sample Date	Residential	Industrial	11/06/12	11/06/12	10/26/12	10/26/12	10/26/12	10/26/12
Chlordane	4.2	47	0.031 U	0.030 U	---	---	---	---
Chlordane, alpha-	4.2	47	---	---	0.002 U	0.002 U	0.002 U	0.002 U
Chlordane, beta-	---	---	---	---	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDD	13	180	0.003 U	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.016	0.019	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.012 NJ	0.014 NJ	0.002 U	0.002 U	0.002 U	0.002 UJ
Aroclor (Total)	1	25	0.054 UJ	0.066 UJ	---	---	---	---
Aroclor-1254	---	---	0.054 UJ	0.066 UJ	0.020 U	0.020 U	0.020 U	0.020 U
Aroclor-1260	---	---	0.031 U	0.030 U	0.020 U	0.020 U	0.020 U	0.020 U

NOTE: N = Tentatively identified constituent.

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		SB-09	SB-09	SB-10	SB-11	SB-12	SB-12
Sample ID	Soil Cleanup Objectives[(a)]		SB-09(0-2)	SB-09(2-4)	SB-10(0-2)	SB-11(4-6)	SB-12A(0-2)	SB-12A(0-2) DUP
Lab ID	Restricted - Residential	Industrial	D4714-20	D4714-21	D4714-16	D4759-03	D4715-14	D4715-17
Sample Date			10/26/12	10/26/12	10/26/12	11/06/12	10/26/12	10/26/12
Chlordane	4.2	47	---	---	---	---	---	---
Chlordane, alpha-	4.2	47	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U
Chlordane, beta-	---	---	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U
p,p'-DDD	13	180	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.002 UJ
Aroclor (Total)	1	25	---	---	---	---	---	---
Aroclor-1254	---	---	0.068 J	0.020 U	0.020 U	0.021 UJ	0.024 J	0.020 U
Aroclor-1260	---	---	0.024 U	0.020 U	0.020 U	0.021 UJ	0.019 U	0.020 U

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		SB-13	SB-13	SB-13	SB-14	SB-14	SB-15	SB-17
Sample ID	Soil Cleanup Objectives[(a)]		SB13(0-4)	SB13(8-10)	SB13(20-22)	SB14(0-2)	SB14(0-2) DUP	SB15(0-2)	SB17(2-4)
Lab ID	Restricted -		D4685-01	D4685-05	D4685-09	D4690-01	D4685-11	D4685-16	D4690-13
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Chlordane	4.2	47	---	---	---	---	---	---	---
Chlordane, alpha-	4.2	47	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Chlordane, beta-	---	---	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDD	13	180	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Aroclor (Total)	1	25	---	---	---	---	---	---	---
Aroclor-1254	---	---	0.020 U	0.020 U	0.022 U	0.020 U	0.021 U	0.022 U	0.021 U
Aroclor-1260	---	---	0.020 U	0.020 U	0.022 U	0.020 U	0.021 U	0.022 U	0.021 U

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		SB-18	SB-18	SS-01	SS-02	SS-05	SS-06	SS-07
Sample ID	Soil Cleanup Objectives[(a)]		SB-18(0-2)	SB-18(0-2) DUP	SS-01	SS-02	SS-05	SS-06	SS-07
Lab ID	Restricted - Residential	Industrial	D4715-07	D4715-13	D4664-01	D4664-02	D4664-03	D4664-04	D4664-05
Sample Date			10/26/12	10/26/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Chlordane	4.2	47	---	---	---	---	---	---	---
Chlordane, alpha-	4.2	47	0.002 U	0.002 U	0.005	0.011	0.002 U	0.002 U	0.002 U
Chlordane, beta-	---	---	0.002 U	0.002 U	0.003	0.007	0.002 U	0.002 U	0.002 U
p,p'-DDD	13	180	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.002 UJ	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Aroclor (Total)	1	25	---	---	---	---	---	---	---
Aroclor-1254	---	---	0.020 U	0.024 U	0.021 U	0.020 U	0.016 J	0.021 UJ	0.020 UJ
Aroclor-1260	---	---	0.020 U	0.024 U	0.021 U	0.020 U	0.020 UJ	0.021 UJ	0.020 UJ

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		SS-08	SS-09	SS-10	SS-11	SS-12	SS-12
Sample ID	Soil Cleanup Objectives[a]		SS-08	SS-09	SS-10	SS-11	SS-12	SS-12 DUP
Lab ID	Restricted -		D4664-06	D4664-07	D4664-08	D4664-09	D4664-10	D4664-19
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Chlordane	4.2	47	---	---	---	---	---	---
Chlordane, alpha-	4.2	47	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U
Chlordane, beta-	---	---	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDD	13	180	0.002 U	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.004	0.004	0.002 U	0.002	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.010 J	0.040 J	0.002 U	0.004 J	0.002 U	0.002 U
Aroclor (Total)	1	25	---	---	---	---	---	---
Aroclor-1254	---	---	0.028 J	0.055 J	0.016 J	0.026 J	0.020 J	0.020 J
Aroclor-1260	---	---	0.022 UJ	0.026 U	0.024 UJ	0.021 UJ	0.020 UJ	0.020 UJ

TABLE 7 SOIL POLYCHLORINATED BIPHENYLS AND PESTICIDES RESULTS

Location	NYSDEC PART 375		SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Sample ID	Soil Cleanup Objectives[(a)]		SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Lab ID	Restricted -		D4664-11	D4664-12	D4664-15	D4664-16	D4664-17	D4664-18
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Chlordane	4.2	47	---	---	---	---	---	---
Chlordane, alpha-	4.2	47	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Chlordane, beta-	---	---	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDD	13	180	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDE	8.9	120	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
p,p'-DDT	7.9	94	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Aroclor (Total)	1	25	---	---	---	---	---	---
Aroclor-1254	---	---	0.023 J	0.022 UJ	0.015 J	0.021 UJ	0.020 UJ	0.021 UJ
Aroclor-1260	---	---	0.020 UJ	0.037 J	0.020 U	0.021 UJ	0.020 UJ	0.021 UJ

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		MW-02A				MW-03A	
Sample ID	Soil Cleanup Objectives[a]		MW-02A (0-1)	MW-02A (2-3)	MW-02A (6-7)	MW-02A (8-10)	MW-03A (0-2)	MW-03A (4-6)
Lab ID	Restricted -		AC69070-001	AC69070-002	AC69070-003	AC69070-004	AC69070-007	AC69070-008
Sample Date	Residential	Industrial	10/29/12	10/29/12	10/29/12	10/29/12	10/31/12	10/31/12
Arsenic	16	16	**24**	**28**	13	14	4.5 U	9.5
Barium	400	10,000	**430**	**900**	99	76	70	50
Beryllium	72	2,700	0.700 U	0.730 U	0.720 U	0.710 U	0.890	0.800 U
Cadmium	4.3	60	**6.5**	**6.6**	0.720 U	0.710 U	0.7200	0.800 U
Copper	270	10,000	**360**	**650**	33	30	45	26
Chromium	180	6,800	67	130	19	18	52	12
Cyanide, Total	27	10,000	---	**66**	---	---	---	---
Lead	400	3,900	**2,300 J**	**1,500 J**	19 J	16 J	76 J	9.8 J
Manganese	2,000	10,000	1,300 J	1,600 J	700 J	450 J	1,000 J	470 J
Mercury	0.81	5.7	0.270	**1.0**	0.100 U	0.099 U	0.095 U	0.110 U
Nickel	310	10,000	85	130	37	32	11	21
Selenium	180	6,800	2.1 U	2.2 U	2.2 U	2.1 U	2.0 U	2.4 U
Silver	180	6,800	26	1.8 U	1.8 U	1.8 U	3.4 U	2.0 U
Zinc	10,000	10,000	1,900 J	2,900 J	82 J	77 J	170 J	62 J

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Restricted Residential and Industrial Soil Cleanup Objective.

NOTE: ID = Identification
NYS DEC = New York State Department of Environmental Conservation
mg/kg = Milligrams per kilogram
--- = Not analyzed
D = Result obtained from a dilution.
J = Estimated concentration.
N = Tentatively identified constituent.
U = Not detected; the associated number is the reporting limit.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Methods 6000/7000. Data Validation completed by Data Validation Services.
Table includes only those inorganics for which the indicated soil cleanup objectives are defined.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bolded values indicate exceedance of NYSDEC Part 375 Restricted Residential Soil Cleanup Objectives.
Bolded and shaded values indicate exceedance of NYSDEC Part 375 Industrial Soil Cleanup Objectives.

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		MW-04			MW-05			
Sample ID	Soil Cleanup Objectives[a]		MW-04(0-2)	MW-04(2-4)	MW-04(4-6)	MW-05 (0-2)	MW-05 (2-3)	MW-05 (3-4)	MW-05 (4-6)
Lab ID	Restricted -		AC69114-001	AC69114-002	AC69114-003	AC69070-015	AC69070-016	AC69070-017	AC69070-018
Sample Date	Residential	Industrial	11/02/12	11/02/12	11/02/12	11/01/12	11/01/12	11/01/12	11/01/12
Arsenic	16	16	15	6.0	12	**18**	9.1	8.8	11
Barium	400	10,000	92	68	83	**800**	150	66	93
Beryllium	72	2,700	0.880 U	0.780 U	0.740 U	0.770 U	0.760 U	0.710 U	0.710 U
Cadmium	4.3	60	1.10	0.780 U	0.740 U	**7.6**	1.6	0.710 U	0.710 U
Copper	270	10,000	28 J	21 J	33 J	**460**	37	25	33
Chromium	180	6,800	9.7 J	12 J	19 J	55	18	13	20
Cyanide, Total	27	10,000	---	0.310 UJ	---	---	---	---	---
Lead	400	3,900	130 J	9.7 J	19 J	**1,600 J**	**940 J**	29 J	14 J
Manganese	2,000	10,000	140 J	270 J	860 J	750 J	360 J	410 J	700 J
Mercury	0.81	5.7	0.120 U	0.110 U	0.100 U	**0.86**	0.120	0.098 U	0.099 U
Nickel	310	10,000	11 J	17 J	37 J	110	16	20	39
Selenium	180	6,800	2.6 U	2.3 U	2.2 U	2.3 U	2.3 U	2.1 U	2.1 U
Silver	180	6,800	5.1 J	3.1 J	4.6 J	4.0	1.9 U	1.8 U	1.8 U
Zinc	10,000	10,000	170	54	78	1,700 J	290 J	69 J	80 J

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		MW-06				MW-07				
Sample ID	Soil Cleanup Objectives[a]		MW-06 (0-2)	MW-06 (0-2) DUP	MW-06 (2-4)	MW-06 (4-6)	MW-07(0-2)	MW-07(2-4)	MW-07(2-4) DUP	MW-07(4-6)	MW-07(6-8)
Lab ID	Restricted -		AC69070-009	AC69070-012	AC69070-013	AC69070-014	AC69114-006	AC69114-007	AC69114-016	AC69114-009	AC69114-010
Sample Date	Residential	Industrial	10/31/12	10/31/12	10/31/12	10/31/12	11/05/12	11/05/12	11/05/12	11/05/12	11/05/12
Arsenic	16	16	10	6.1	14	10	15	14	12	15	11
Barium	400	10,000	87	78	110	110	**480**	**1,200 J**	390 J	320	93
Beryllium	72	2,700	0.720 U	1.1	0.740 U	0.740 U	0.730 U	0.830 U	0.730 U	0.780 U	0.720 U
Cadmium	4.3	60	1.4	0.830	0.740 U	0.740 U	**8.5**	3.1 J	1.4 J	1.5	0.720 U
Copper	270	10,000	37	25	31	32	240 J	190 J	250 J	110 J	30 J
Chromium	180	6,800	20	15	22	22	53 J	46 J	73 J	28 J	18 J
Cyanide, Total	27	10,000	**150 J**	8.5 J	---	---	---	**170 J**	**90 J**	---	---
Lead	400	3,900	200 J	86 J	18 J	16 J	**750 J**	**660 J**	**820 J**	**440 J**	15 J
Manganese	2,000	10,000	680 J	510 J	580 J	700 J	950 J	360 J	430 J	360 J	470 J
Mercury	0.81	5.7	0.100 U	0.099 U	0.100 U	0.100 U	0.240	0.310	0.230	0.270	0.100 U
Nickel	310	10,000	25	14	37	39	65 J	32 J	40 J	32 J	31 J
Selenium	180	6,800	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.5 U	2.2 U	2.3 U	2.2 U
Silver	180	6,800	1.8 U	1.8 U	1.9 U	1.9 U	6.8 J	6.3 J	1.8 UJ	1.9 U	1.8 U
Zinc	10,000	10,000	220 J	150 J	88 J	87 J	1,300	1,300 J	760 J	530	74

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		MW-08				SB-05				
Sample ID	Soil Cleanup Objectives[a]		MW-08(0-2)	MW-08(0-2) DUP	MW-08(2-4)	MW-08(6-8)	SB-05(0-2)	SB-05(0-2) DUP	SB-05(2-4)	SB-05(4-6)	SB-05(6-8)
Lab ID	Restricted -		AC69114-011	AC69114-013	AC69114-014	AC69114-015	D4714-09	D4714-15	D4714-10	D4714-13	D4714-14
Sample Date	Residential	Industrial	11/06/12	11/06/12	11/06/12	11/06/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Arsenic	16	16	**18**	11	**80**	6.70	7.32	8.37	5.63	9.46	9.72
Barium	400	10,000	250	210	**8,800**	71.0	93.0	94.7	58.5	75.2	70.8
Beryllium	72	2,700	0.750 U	0.730 U	0.740 U	0.720 U	0.280	0.220	0.100 J	0.120 J	0.120 J
Cadmium	4.3	60	1.9	1.5	**5.50**	0.720 U	0.900	0.870	0.490 J	0.550	0.870
Copper	270	10,000	130 J	**770 J**	**410 J**	29.0 J	25.7 J	24.1 J	12.9 J	26.1 J	28.7 J
Chromium	180	6,800	26 J	24 J	74 J	18 J	11	17.4	10.5	13.4	14.3
Cyanide, Total	27	10,000	**100 J**	**110 J**	---	---	---	0.193 J	0.095 J	---	---
Lead	400	3,900	320 J	290 J	**790 J**	13.0 J	53.7	22.0	11.3 J	24.2	20.9
Manganese	2,000	10,000	620 J	500 J	1,000 J	360 J	299 J	309 J	396 J	524 J	357 J
Mercury	0.81	5.7	0.180	0.160	0.390	0.100 U	0.017	0.024	0.040	0.018	0.016
Nickel	310	10,000	36 J	35 J	92 J	28.0 J	18.6	46.3	16.3 J	44.4	40.8
Selenium	180	6,800	2.2 U	2.2 U	2.2 U	2.2 U	0.560 U	0.340 J	0.500 U	0.330 J	0.510 U
Silver	180	6,800	3.2 J	1.8 U	1.9 U	1.8 U	0.270 J	1.09	0.250 UJ	0.980	0.890
Zinc	10,000	10,000	440	450	2,700	73.0	78.1	86.0	29.1 J	76.3	80.1

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-06				SB-07			
Sample ID	Soil Cleanup Objectives[a]		SB-06(0-2)	SB-06(2-4)	SB-06(4-6)	SB-06(6-8)	SB-07(0-2)	SB-07(2-4)	SB-07(4-6)	SB-07(6-8)
Lab ID	Restricted -		D4714-05	D4714-06	D4714-07	D4714-08	D4714-01	D4714-02	D4714-03	D4714-04
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Arsenic	16	16	5.78	4.58	9.03	11.5	6.43	8.14	9.99	7.78
Barium	400	10,000	67.8	31.7	60.8	60.6	65.0	87.9	93.1	91.0
Beryllium	72	2,700	0.22	0.140 J	0.130 J	0.130 J	0.110 J	0.080 J	0.190	0.160
Cadmium	4.3	60	0.910	0.480	0.970	1.18	1.52	0.730	1.14	0.930
Copper	270	10,000	17.5 J	13.3 J	26.5 J	29.5 J	29.7 J	17.6 J	28.3 J	28.8 J
Chromium	180	6,800	12.9	7.32	11.7	13.8	13.1	7.57	15.7	13.7
Cyanide, Total	27	10,000	---	0.590	---	---	---	---	---	---
Lead	400	3,900	24.3	21.1	20.1	23.1	120	22.9	25.4	25.1
Manganese	2,000	10,000	248 J	240 J	519 J	277 J	722 J	1,260 J	676 J	623 J
Mercury	0.81	5.7	0.046	0.040	0.017	0.016	0.196	0.050	0.008 J	0.023
Nickel	310	10,000	30.8	14.8	38.7	40.0	20.8	13.4	51.8	50.8
Selenium	180	6,800	0.430 J	0.250 J	0.490 U	0.520 U	0.330 J	0.930	0.520 U	0.520 U
Silver	180	6,800	0.610	0.210 J	0.290	0.640	0.180 J	0.280	0.660	0.490
Zinc	10,000	10,000	78.0	42.0	65.4	78.1	141	51.2	76.3	80.5

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-08				SB-09			
Sample ID	Soil Cleanup Objectives[a]		SB-08(0-2)	SB-08(2-4)	SB-08(4-6)	SB-08(6-8)	SB-09(0-2)	SB-09(2-4)	SB-09(4-6)	SB-09(6-8)
Lab ID	Restricted -		D4715-03	D4715-04	D4715-05	D4715-06	D4714-20	D4714-21	D4715-01	D4715-02
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Arsenic	16	16	14.9 J	**26.6 J**	4.41 J	11.3 J	8.10	11.8	6.08 J	5.36 J
Barium	400	10,000	**462 J**	**443 J**	99.5 J	111 J	110	57.2	75.8 J	65.7 J
Beryllium	72	2,700	0.170 UJ	0.150 UJ	0.240 J	0.250 J	0.150 J	0.180	0.230 J	0.210 J
Cadmium	4.3	60	**11.2 J**	**5.70 J**	1.07 J	1.81 J	1.94	0.780	0.970 J	0.920 J
Copper	270	10,000	170 J	213 J	19.9 J	30.7 J	18.3 J	26.9 J	23.8 J	24.9 J
Chromium	180	6,800	40.1 J	29.4 J	12.3 J	15.7 J	11.4	10.2	15.5 J	14.9 J
Cyanide, Total	27	10,000	---	0.572	---	---	---	---	---	---
Lead	400	3,900	**1,220**	**869**	66.6	29.8	218	21.5	19.7	19.3
Manganese	2,000	10,000	690 J	519 J	142 J	1,030 J	437 J	334 J	240 J	205 J
Mercury	0.81	5.7	0.198	0.021	0.048	0.042	0.442	0.104	0.019	0.016
Nickel	310	10,000	59.4 J	46.8 J	20.8 J	54.6 J	19.1	29.2	38.1 J	34.9 J
Selenium	180	6,800	0.600 J	0.250 J	0.500 J	1.02 J	0.600	0.390 J	0.220 J	0.500 UJ
Silver	180	6,800	2.50 J	3.00 J	0.580 J	1.44 J	0.570	0.750	0.940 J	0.640 J
Zinc	10,000	10,000	1,340 J	922 J	103 J	76 J	187	57.7	76.1 J	70.1 J

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-10				SB-11		
Sample ID	Soil Cleanup Objectives[(a)]		SB-10(0-2)	SB-10(2-4)	SB-10(4-6)	SB-10(6-8)	SB-11(0-2)	SB-11(2-4)	SB-11(4-6)
Lab ID	Restricted -		D4714-16	D4714-17	D4714-18	D4714-19	D4759-01	D4759-02	D4759-03
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	11/06/12	11/06/12	11/06/12
Arsenic	16	16	4.22	6.25	8.66	8.28	8.85 J	7.54 J	8.49 J
Barium	400	10,000	64.0	29.7	68.6	45.1	96.4	333	109
Beryllium	72	2,700	0.110 J	0.160 U	0.060 J	0.110 J	0.390	0.380	0.150 JN
Cadmium	4.3	60	0.380	0.410	0.600	0.830	0.780	2.57	0.760
Copper	270	10,000	13.9 J	21.5 J	24.8 J	26.1 J	16.9 J	58.3 J	64.0 J
Chromium	180	6,800	9.05	5.63	11.9	13	17.9 J	18 J	17.8 J
Cyanide, Total	27	10,000	0.186 J	---	---	---	---	---	0.152 J
Lead	400	3,900	12.6	11.5	17.8	19.8	26.7 J	**630 J**	246 J
Manganese	2,000	10,000	195 J	483 J	247 J	343 J	313 J	462 J	529 J
Mercury	0.81	5.7	0.021	0.015	0.022	0.017	0.041	0.142	0.067 J
Nickel	310	10,000	20.6	22.8	33.2	40.4	38.4 J	38.2 J	30.7 J
Selenium	180	6,800	0.270 J	0.520 U	0.520 U	0.510 U	0.910 J	1.71 J	1.13 J
Silver	180	6,800	0.620	0.230 J	0.710	0.690	1.47 J	2.41 J	1.55 J
Zinc	10,000	10,000	48.2	47.4	73.0	72.4	74.7	666	137

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-11						
Sample ID	Soil Cleanup Objectives[a]		SB-11(4-6) DUP	SB-11(6-8)	SB-11(8-10)	SB-11(10-12)	SB-11(12-14)	SB-11(14-16)	SB-11(16-18)
Lab ID	Restricted -		D4759-06	D4759-07	D4759-08	D4759-09	D4759-10	D4759-11	D4759-12
Sample Date	Residential	Industrial	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12
Arsenic	16	16	5.23 J	6.10 J	8.27 J	11.3 J	14.4 J	7.23 J	9.07 J
Barium	400	10,000	120	195	120	288	**588**	74.6	72.6
Beryllium	72	2,700	0.350	0.350	0.350	0.140 JN	0.170	0.260	0.310
Cadmium	4.3	60	0.650	1.97	1.13	1.55	3.73	0.470	0.680
Copper	270	10,000	20.1 J	38.4 J	24.7 J	107 J	139 J	23.6 J	21.7 J
Chromium	180	6,800	15 J	63.2 J	18.5 J	26 J	36.1 J	16.8 J	18.1 J
Cyanide, Total	27	10,000	0.096 J	---	---	---	---	---	---
Lead	400	3,900	70.8 J	266 J	**901 J**	**421 J**	**4,120 J**	25.3 J	23.6 J
Manganese	2,000	10,000	352 J	1,440 J	393 J	425 J	561 J	412 J	236 J
Mercury	0.81	5.7	0.034 J	0.102	0.098	0.144	0.031	0.018	0.018
Nickel	310	10,000	31.1 J	34.6 J	41.1 J	38.6 J	41.3 J	47.8 J	39.0 J
Selenium	180	6,800	0.910 J	2.83 J	1.01 J	0.930 J	1.50 J	0.660 J	0.740 J
Silver	180	6,800	1.12 J	2.37 J	1.70 J	1.96 J	3.35 J	1.37 J	1.41 J
Zinc	10,000	10,000	126	371	153	465	4,040 D	79.7	81.2

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-12						
Sample ID	Soil Cleanup Objectives[a]		SB-12A(0-2)	SB-12A(0-2) DUP	SB12(8-10)	SB12(12-14)	SB12(14-16)	SB12(16-18)	SB12(18-20)
Lab ID	Restricted -		D4715-14	D4715-17	D4690-18	D4690-19	D4690-20	D4690-21	D4690-22
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	16	16	6.57 J	5.36 J	8.13 J	10.5 J	11.5 J	9.48 J	10.4 J
Barium	400	10,000	73.5 J	81.9 J	173 J	101 J	73.0 J	145 J	113 J
Beryllium	72	2,700	0.290 J	0.150 UJ	0.300 J	0.350 J	0.340 J	0.400 J	0.300 J
Cadmium	4.3	60	0.660 J	2.90 J	1.95	1.68	1.45	**4.42**	1.73
Copper	270	10,000	20.7 J	48.8 J	63.5 J	30.2 J	23.8 J	67.2 J	27.8 J
Chromium	180	6,800	49.1 J	148 J	17 J	16.9 J	15.2 J	134 J	16.7 J
Cyanide, Total	27	10,000	0.342	0.471	---	---	---	---	---
Lead	400	3,900	66.7 J	191 J	**464**	51.9	25.4	**810**	112
Manganese	2,000	10,000	1,020 J	**2,080 J**	419 J	418 J	359 J	1,380 J	534 J
Mercury	0.81	5.7	0.130	0.112	0.124	0.016	0.151	0.131	0.023
Nickel	310	10,000	22.3 J	27.3 J	35.8	44.2	43.9	36.3	43.4
Selenium	180	6,800	1.16 J	1.84 J	0.780	0.860	0.880	1.86	0.800
Silver	180	6,800	0.870 J	0.740 J	1.65	1.59	1.75	2.39	1.63
Zinc	10,000	10,000	111 J	293 J	364	112	81.8	583	132

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-13							
Sample ID	Soil Cleanup Objectives[a]		SB13(0-4)	SB13(4-8)	SB13(8-10)	SB13(10-12)	SB13(12-14)	SB13(16-18)	SB13(20-22)	SB13(23-25)
Lab ID	Restricted -		D4685-01	D4685-04	D4685-05	D4685-06	D4685-07	D4685-08	D4685-09	D4685-10
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	16	16	4.48	**19.7**	9.06	**21.5**	10.2	11.8	**51.5**	6.23
Barium	400	10,000	53.3 J	**584 J**	106 J	397 J	88.3 J	281 J	**1,500 J**	76.3 J
Beryllium	72	2,700	0.630	0.210	0.280	0.110 J	0.340	0.280	0.510	0.270
Cadmium	4.3	60	0.820	**42.7**	1.33	**17.1**	1.62	3.98	**19.5**	0.970
Copper	270	10,000	13.8 J	**309 J**	32.2 J	**684 J**	28.6 J	178 J	**1,510 J**	21.0 J
Chromium	180	6,800	8.58 J	89.9 J	13.1 J	50.4 J	13.6 J	19.7 J	67.1 J	13.8 J
Cyanide, Total	27	10,000	0.285 J	---	0.197 J	---	---	---	0.711	---
Lead	400	3,900	47.8	**5,470**	43.9	**2,040**	35.5	**789**	**6,820**	20.3
Manganese	2,000	10,000	482 J	1,170 J	334 J	776 J	403 J	381 J	643 J	323 J
Mercury	0.81	5.7	0.066	0.096	0.027	0.032	0.021	0.607 D	0.090	0.011 J
Nickel	310	10,000	16.4	147	41.8	**342**	50.2	50.7	59.0	38.3
Selenium	180	6,800	0.580	0.470 U	1.11	0.440 U	0.850	0.730	0.530 U	0.840
Silver	180	6,800	0.540	0.240 U	2.09	1.58	1.65	2.47	6.21	1.47
Zinc	10,000	10,000	139	1,760	149	1,990	142	794	4,910 D	77.9

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-14							SB-15				
Sample ID	Soil Cleanup Objectives[a]		SB14(0-2)	SB14(0-2) DUP	SB14(2-4)	SB14(4-6)	SB14(6-8)	SB14(8-10)	SB14(10-12)	SB15(0-2)	SB15(2-4)	SB15(4-6)	SB15(6-8)	SB15(8-10)
Lab ID	Restricted -		D4690-01	D4685-11	D4690-04	D4690-05	D4690-06	D4690-07	D4690-08	D4685-16	D4685-17	D4685-18	D4685-19	D4685-20
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	16	16	7.65 J	11.2	8.11 J	8.98 J	4.75 J	7.50 J	7.83 J	6.43	12.4	9.95	10.8	5.60
Barium	400	10,000	50.7 J	91.7 J	29.7 J	72.3 J	50.9 J	80.5 J	73.0 J	91.2 J	99.8 J	76.5 J	72.9 J	50.2 J
Beryllium	72	2,700	0.200 J	0.470	0.130 J	0.380 J	0.340 J	0.350 J	0.360 J	0.360	0.390	0.320	0.280	0.310
Cadmium	4.3	60	0.740 J	1.43 J	0.840	1.29	1.03	1.20	1.34	2.16	1.32	1.27	1.45	0.970
Copper	270	10,000	25.2 J	25.8 J	20.7 J	22.4 J	27.1 J	23.0 J	23.2 J	26.6 J	24.4 J	22.7 J	21.1 J	21.0 J
Chromium	180	6,800	9.1 J	17.5 J	7.97 J	15.4 J	15.9 J	16.2 J	15.9 J	15.7 J	15.8 J	14.5 J	13.4 J	13.1 J
Cyanide, Total	27	10,000	0.292 U	0.307 U	---	---	---	---	---	0.545	---	---	---	---
Lead	400	3,900	34.1	31.3	42.3	22.9	19.8	23.3	23.3	99.7	27.9	21.8	23.1	21.2
Manganese	2,000	10,000	390 J	471 J	213 J	199 J	232 J	385 J	381 J	268 J	639 J	421 J	355 J	229 J
Mercury	0.81	5.7	0.026	0.034	0.013	0.013	0.015	0.014	0.013	0.704 D	0.016	0.013	0.014	0.017
Nickel	310	10,000	33.7	52.2	24.8	40.9	41.9	44.8	44.3	30.3	48.2	44.6	45.2	35.8
Selenium	180	6,800	1.02	1.14	0.380 JN	0.590	2.43	0.890	0.810	1.08	1.20	0.750	0.730	0.830
Silver	180	6,800	1.64	2.06	1.05	1.47	1.48	1.70	1.42	1.50	2.03	1.51	1.58	1.35
Zinc	10,000	10,000	601 J	91.4 J	255	85.3	84.3	97.2	92.1	467	86.3	82.7	77.8	70.9

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-16							
Sample ID	Soil Cleanup Objectives[a]		SB16(0-2)	SB16(2-4)	SB16(4-6)	SB16(6-8)	SB16(8-10)	SB16(10-12)	SB16(12-14)	SB16(14-16)
Lab ID	Restricted -		D4690-09	D4690-10	D4690-11	D4690-12	D4685-12	D4685-13	D4685-14	D4685-15
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	16	16	3.03 J	3.76 J	9.3 J	**24.2 J**	5.21	12.6	8.46	6.03
Barium	400	10,000	66.1 J	262 J	92.1 J	94.6 J	66.4 J	56.2 J	72.7 J	21.3 J
Beryllium	72	2,700	1.38 J	2.24 J	0.470 J	0.310 J	0.330	0.270	0.300	0.130 J
Cadmium	4.3	60	0.900	2.39	1.14	1.78	1.00	1.14	1.37	0.690
Copper	270	10,000	9.22 J	6.59 J	23.3 J	25.2 J	24.0 J	19.6 J	23.2 J	16.5 J
Chromium	180	6,800	5.87 J	8.39 J	16.6 J	15.6 J	14.3 J	12.2 J	15.2 J	6.98 J
Cyanide, Total	27	10,000	---	---	---	---	---	---	---	---
Lead	400	3,900	54.7	96.4	25.0	26.7	20.7	23.0	23.5	12.8
Manganese	2,000	10,000	569 J	1,490 J	370 J	821 J	207 J	236 J	379 J	278 J
Mercury	0.81	5.7	0.061	0.012	0.019	0.013	0.014	0.014	0.014	0.013
Nickel	310	10,000	9.84	13.3	42.8	73.5	35.5	38.6	45.6	22.6
Selenium	180	6,800	1.03	2.79	0.87	1.16	0.610	0.79	1.02	0.360 J
Silver	180	6,800	0.430	1.18	1.72	1.79	1.37	1.63	1.68	0.720
Zinc	10,000	10,000	96.9	263	84.7	95.9	74.8	72.7	85.7	45.7

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-17					
Sample ID	Soil Cleanup Objectives[a]		SB17(0-2)	SB17(2-4)	SB17(4-6)	SB17(6-8)	SB17(8-10)	SB17(10-12)
Lab ID	Restricted -		D4685-21	D4690-13	D4690-14	D4690-15	D4690-16	D4690-17
Sample Date	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	16	16	7.10	2.97 J	11.7 J	9.81 J	6.59 J	7.93 J
Barium	400	10,000	71.7 J	52.6 J	98.7 J	87.8 J	87.3 J	56.8 J
Beryllium	72	2,700	0.600	0.250 J	0.450 J	0.340 J	0.380 J	0.340 J
Cadmium	4.3	60	2.25	0.170	1.65	1.63	0.790	1.28
Copper	270	10,000	25.6 J	4.47 J	26.7 J	23.7 J	21.1 J	22.4 J
Chromium	180	6,800	18.7 J	6.85 J	16.9 J	14.8 J	15.3 J	13.8 J
Cyanide, Total	27	10,000	---	0.136 J	---	---	---	---
Lead	400	3,900	133	11.7	31.3	26.0	27.6	22.5
Manganese	2,000	10,000	561 J	69.8 J	455 J	665 J	240 J	212 J
Mercury	0.81	5.7	0.025	0.052	0.015	0.014	0.014	0.015
Nickel	310	10,000	31.8	5.17	55.0	53.7	50.0	39.4
Selenium	180	6,800	1.32	0.560	1.21	0.890	0.560 JN	0.550
Silver	180	6,800	1.48	0.300	2.06	1.50	1.02	1.29
Zinc	10,000	10,000	245	20.8	89.8	80.0	83.6	74.8

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SB-18					SS-01	SS-02	SS-05	SS-06	SS-07	SS-08
Sample ID	Soil Cleanup Objectives[a]		SB-18(0-2)	SB-18(0-2) DUP	SB-18(2-4)	SB-18(8-10)	SB-18(10-12)	SS-01	SS-02	SS-05	SS-06	SS-07	SS-08
Lab ID	Restricted -		D4715-07	D4715-13	D4715-10	D4715-11	D4715-12	D4664-01	D4664-02	D4664-03	D4664-04	D4664-05	D4664-06
Sample Date	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Arsenic	16	16	3.39 J	**41.1 J**	1.51 J	11.7 J	7.08 J	4.79	5.52	2.86	7.14	1.79	14.5
Barium	400	10,000	65.9 J	50.4 J	98.5 J	68.0 J	65.5 J	138 J	24.4 J	59.6 J	50.5 J	79.4 J	217 J
Beryllium	72	2,700	1.54 J	0.440 J	3.04 J	0.150 J	0.140 J	1.81	0.200	0.900	0.170	1.22	0.200
Cadmium	4.3	60	1.33 J	2.17 J	0.930 J	0.970 J	1.24 J	1.53 J	0.400 J	0.590 J	0.690 J	0.690 J	**6.27 J**
Copper	270	10,000	23.1 J	45.0 J	11.0 J	25.8 J	26.8 J	25.2 J	13.2 J	9.75 J	21.2 J	11.5 J	166 J
Chromium	180	6,800	16.9 J	21.6 J	6.23 J	13.9 J	13.3 J	26.9 J	8.32 J	5.67 J	23.9 J	40.5 J	32.9 J
Cyanide, Total	27	10,000	0.273 J	0.175 J	---	---	---	0.151 J	0.298 U	0.290 U	0.314 U	2.10	0.153 J
Lead	400	3,900	81.1 J	84.2	41.5	20.5	22.1	88.7 J	28.5 J	69.8 J	65.2 J	54.9 J	**2,180 J**
Manganese	2,000	10,000	615 J	417 J	854 J	233 J	361 J	1,610 J	163 J	585 J	385 J	1,410 J	552 J
Mercury	0.81	5.7	0.079 J	0.223 J	0.011 J	0.017	0.016	0.046 J	0.075 J	0.028 J	0.069 J	0.022 J	0.228 J
Nickel	310	10,000	11.9 J	12.7 J	5.59 J	34.5 J	38.7 J	17.2 J	14.6 J	8.64 J	15.7 J	7.40 J	56.5 J
Selenium	180	6,800	1.53 J	0.510 J	1.81 J	0.280 J	0.370 J	5.25	2.21	1.86	1.99	3.73	7.59
Silver	180	6,800	0.880 J	0.290 J	0.320 J	0.870 J	0.760 J	0.200 J	0.250 UJ	0.250 UJ	0.290 UJ	0.260 UJ	0.660 J
Zinc	10,000	10,000	183 J	118 J	223 J	71.6 J	67.0 J	312	67.9	97.5	135	68.9	886

TABLE 8 INORGANIC CONSTITUENTS IN SOIL

Location	NYSDEC PART 375		SS-09	SS-10	SS-11	SS-12		SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Sample ID	Soil Cleanup Objectives[a]		SS-09	SS-10	SS-11	SS-12	SS-12 DUP	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Lab ID	Restricted -		D4664-07	D4664-08	D4664-09	D4664-10	D4664-19	D4664-11	D4664-12	D4664-15	D4664-16	D4664-17	D4664-18
Sample Date	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Arsenic	16	16	13.1	9.39	7.41	2.72	1.65	4.31	12.6	3.10	6.77	8.33	7.42
Barium	400	10,000	398 J	214 J	201 J	158 J	100 J	146 J	399 J	54.5 J	80.6 J	72.4 J	56.4 J
Beryllium	72	2,700	0.290	0.490	1.32	0.190	0.140 U	0.900	0.080 J	0.970	0.740	1.33	0.270
Cadmium	4.3	60	**6.87 J**	3.10 J	2.78 J	**4.73 J**	**6.15 J**	2.83 J	**22.0 J**	0.920 J	0.690 J	0.960 J	0.650 J
Copper	270	10,000	115 J	91.9 J	80.4 J	63.0 J	35.5 J	51.0 J	**406 J**	15.3 J	20.3 J	27.5 J	20.0 J
Chromium	180	6,800	35.7 J	18.8 J	26.1 J	**513 J**	**506 J**	49.6 J	60.5 J	10.4 J	10.2 J	12.4 J	10.8 J
Cyanide, Total	27	10,000	0.803	0.078 J	0.658	0.060 J	0.139 J	0.099 J	0.091 J	0.064 J	0.305 U	0.067 J	0.043 J
Lead	400	3,900	**965 J**	**595 J**	**401 J**	169 J	168 J	146 J	**2,330 J**	52.7 J	58.6 J	88.9 J	66.4 J
Manganese	2,000	10,000	786 J	456 J	993 J	**4,190 J**	**3,080 J**	1,430 J	1,180 J	628 J	538 J	625 J	355 J
Mercury	0.81	5.7	0.695 J	0.263 J	0.326 J	0.041 J	0.031 J	0.048 J	0.261 J	0.030 J	0.078 J	0.036 J	0.070 J
Nickel	310	10,000	63.4 J	20.4 J	28.3 J	40.8 J	40.3 J	42.3 J	80.6 J	11.8 J	21.2 J	15.4 J	23.7 J
Selenium	180	6,800	8.55	4.00	6.38	13.3	15.2	6.93	14.8	2.21	3.42	2.81	3.04
Silver	180	6,800	0.560 J	0.290 UJ	0.710 J	0.230 UJ	0.720 J	0.240 UJ	0.280 UJ	0.240 UJ	0.250 UJ	0.250 UJ	0.260 UJ
Zinc	10,000	10,000	1,090	541	711	188	210	368	1,840	93.0	117	149	107

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			MW-02A				MW-03A	MW-04	
Sample ID	Soil Cleanup Objectives[(a)]			MW-02A (0-1)	MW-02A (2-3)	MW-02A (6-7)	MW-02A (8-10)	MW-03A (0-2)	MW-04(0-2)	MW-04(2-4)
Lab ID	Unrestricted	Restricted -		AC69070-001	AC69070-002	AC69070-003	AC69070-004	AC69070-007	AC69114-001	AC69114-002
Sample Date	Use	Residential	Industrial	10/29/12	10/29/12	10/29/12	10/29/12	10/31/12	11/02/12	11/02/12
Arsenic	13	16	16	***24***	***28***	**13**	**14**	---	**15**	---
Barium	350	400	10,000	**430**	**900**	---	---	---	---	---
Cadmium	2.5	4.3	60	**6.5**	**6.6**	---	---	---	---	---
Chromium	30	180	6,800	**67**	**130**	---	---	**52**	---	---
Copper	50	270	10,000	**360**	**650**	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	**66**	---	---	---	---	---
Lead	63	400	3,900	**2,300 J**	**1,500 J**	---	---	**76 J**	**130 J**	---
Manganese	1,600	2,000	10,000	---	**1,600 J**	---	---	---	---	---
Mercury	0.18	0.81	5.7	**0.27**	**1.0**	---	---	---	---	---
Nickel	30	310	10,000	**85**	**130**	**37**	**32**	---	---	---
Selenium	3.9	180	6,800	---	---	---	---	---	---	---
Silver	2	180	6,800	**26**	---	---	---	---	**5.1 J**	**3.1 J**
Zinc	109	10,000	10,000	**1,900 J**	**2,900 J**	---	---	**170 J**	**170**	---

(a) NYSDEC DER. 6 NYCRR Part 375 Environmental Remediation Programs. December 2006. Soil Cleanup Objectives.

NOTE: ID = Identification

NYSDEC = New York State Department of Environmental Conservation

J = Estimated concentration.

--- = Not detected above criteria.

Analytical data results obtained by Chemtech Consulting Group using SW-846 Methods 6000/7000. Data Validation completed by Data Validation Services.

Table includes exceedances only for those inorganics detected at or above criteria in one or more sample.

All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).

Bolded values indicate exceedance of NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives.

Shaded values indicate exceedance of NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives.

Italicized values indicate exceedance of NYSDEC Part 375 Industrial Soil Cleanup Objectives.

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			MW-04	MW-05			MW-06		
Sample ID	Soil Cleanup Objectives[a]			MW-04(4-6)	MW-05 (0-2)	MW-05 (2-3)	MW-05 (4-6)	MW-06 (0-2)	MW-06 (0-2) DUP	MW-06 (2-4)
Lab ID	Unrestricted	Restricted -		AC69114-003	AC69070-015	AC69070-016	AC69070-018	AC69070-009	AC69070-012	AC69070-013
Sample Date	Use	Residential	Industrial	11/02/12	11/01/12	11/01/12	11/01/12	10/31/12	10/31/12	10/31/12
Arsenic	13	16	16	---	***18***	---	---	---	---	**14**
Barium	350	400	10,000	---	**800**	---	---	---	---	---
Cadmium	2.5	4.3	60	---	**7.6**	---	---	---	---	---
Chromium	30	180	6,800	---	**55**		---		---	---
Copper	50	270	10,000	---	**460**	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	**150 J**	---	---
Lead	63	400	3,900	---	**1,600 J**	**940 J**	---	**200 J**	**86 J**	---
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	**0.86**	---	---	---	---	---
Nickel	30	310	10,000	**37 J**	**110**	---	**39**	---	---	**37**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---
Silver	2	180	6,800	**4.6 J**	**4.0**	---	---	---	---	---
Zinc	109	10,000	10,000	---	**1,700 J**	**290 J**	---	**220 J**	**150 J**	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			MW-06	MW-07					MW-08
Sample ID	Soil Cleanup Objectives[a]			MW-06 (4-6)	MW-07(0-2)	MW-07(2-4)	MW-07(2-4) DUP	MW-07(4-6)	MW-07(6-8)	MW-08(0-2)
Lab ID	Unrestricted	Restricted -		AC69070-014	AC69114-006	AC69114-007	AC69114-016	AC69114-009	AC69114-010	AC69114-011
Sample Date	Use	Residential	Industrial	10/31/12	11/05/12	11/05/12	11/05/12	11/05/12	11/05/12	11/06/12
Arsenic	13	16	16	---	---	**14**	---	**15**	---	**18**
Barium	350	400	10,000	---	**480**	**1,200 J**	**390 J**	---	---	---
Cadmium	2.5	4.3	60	---	**8.5**	**3.1 J**	---	---	---	---
Chromium	30	180	6,800	---	**53 J**	**46 J**	**73 J**	---	---	---
Copper	50	270	10,000	---	**240 J**	**190 J**	**250 J**	**110 J**	---	**130 J**
Cyanide, Total	27	27	10,000	---	---	**170 J**	**90 J**	---	---	**100 J**
Lead	63	400	3,900	---	**750 J**	**660 J**	**820 J**	**440 J**	---	**320 J**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	**0.24**	**0.31**	**0.23**	**0.27**	---	**0.18**
Nickel	30	310	10,000	**39**	**65 J**	**32 J**	**40 J**	**32 J**	**31 J**	**36 J**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---
Silver	2	180	6,800	---	**6.8 J**	**6.3 J**	---	---	---	**3.2 J**
Zinc	109	10,000	10,000	---	**1,300**	**1,300 J**	**760 J**	**530**	---	**440**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			MW-08		SB-05			SB-06		
Sample ID	Soil Cleanup Objectives[a]			MW-08(0-2) DUP	MW-08(2-4)	SB-05(4-6)	SB-05(6-8)	SB-05(6-8) DUP	SB-06(0-2)	SB-06(4-6)	SB-06(6-8)
Lab ID	Unrestricted	Restricted -		AC69114-013	AC69114-014	D4714-13	D4714-14	D4714-15	D4714-05	D4714-07	D4714-08
Sample Date	Use	Residential	Industrial	11/06/12	11/06/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Arsenic	13	16	16	---	**80**	---	---	---	---	---	---
Barium	350	400	10,000	---	**8,800**	---	---	---	---	---	---
Cadmium	2.5	4.3	60	---	**5.5**	---	---	---	---	---	---
Chromium	30	180	6,800		**74 J**	---	---	---	---	---	---
Copper	50	270	10,000	**770 J**	**410 J**	---	---	---	---	---	---
Cyanide, Total	27	27	10,000	**110 J**	---	---	---	---	---	---	---
Lead	63	400	3,900	**290 J**	**790 J**	---	---	---	---	---	---
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	**0.39**	---	---	---	---	---	---
Nickel	30	310	10,000	**35 J**	**92 J**	**44.4**	**40.8**	**46.3**	**30.8**	**38.7**	**40**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	---	---	---	---	---	---
Zinc	109	10,000	10,000	**450**	**2,700**	---	---	---	---	---	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-07			SB-08				SB-09	
Sample ID	Soil Cleanup Objectives[a]			SB-07(0-2)	SB-07(4-6)	SB-07(6-8)	SB-08(0-2)	SB-08(2-4)	SB-08(4-6)	SB-08(6-8)	SB-09(0-2)	SB-09(4-6)
Lab ID	Unrestricted	Restricted -		D4714-01	D4714-03	D4714-04	D4715-03	D4715-04	D4715-05	D4715-06	D4714-20	D4715-01
Sample Date	Use	Residential	Industrial	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12
Arsenic	13	16	16	---	---	---	**14.9 J**	**26.6 J**	---	---	---	---
Barium	350	400	10,000	---	---	---	**462 J**	**443 J**	---	---	---	---
Cadmium	2.5	4.3	60	---	---	---	**11.2 J**	**5.7 J**	---	---	---	---
Chromium	30	180	6,800	---	---	---	**40.1 J**	---	---	---	---	---
Copper	50	270	10,000	---	---	---	**170 J**	**213 J**	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---	---
Lead	63	400	3,900	**120**	---	---	**1,220**	**869**	**66.6**	---	**218**	---
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	**0.196**	---	---	**0.198**	---	---	---	**0.442**	---
Nickel	30	310	10,000	---	**51.8**	**50.8**	**59.4 J**	**46.8 J**	---	**54.6 J**	---	**38.1 J**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	---	**2.5 J**	**3.0 J**	---	---	---	---
Zinc	109	10,000	10,000	**141**	---	---	**1,340 J**	**922 J**	---	---	**187**	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-09	SB-10		SB-11				
Sample ID	Soil Cleanup Objectives[(a)]			SB-09(6-8)	SB-10(4-6)	SB-10(6-8)	SB-11(0-2)	SB-11(2-4)	SB-11(4-6)	SB-11(4-6) DUP	SB-11(6-8)
Lab ID	Unrestricted	Restricted -		D4715-02	D4714-18	D4714-19	D4759-01	D4759-02	D4759-03	D4759-06	D4759-07
Sample Date	Use	Residential	Industrial	10/26/12	10/26/12	10/26/12	11/06/12	11/06/12	11/06/12	11/06/12	11/06/12
Arsenic	13	16	16	---	---	---	---	---	---	---	---
Barium	350	400	10,000	---	---	---	---	---	---	---	---
Cadmium	2.5	4.3	60	---	---	---	---	**2.57**	---	---	---
Chromium	30	180	6,800	---	---	---	---	---	---	---	**63.2 J**
Copper	50	270	10,000	---	---	---	---	**58.3 J**	**64 J**	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	---	---	---	**630 J**	**246 J**	**70.8 J**	**266 J**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	---	---	---	---	---	---	---
Nickel	30	310	10,000	**34.9 J**	**33.2**	**40.4**	**38.4 J**	**38.2 J**	**30.7 J**	**31.1 J**	**34.6 J**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	---	---	**2.41 J**	---	---	**2.37 J**
Zinc	109	10,000	10,000	---	---	---	---	**666**	**137**	**126**	**371**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-11				SB-12		
Sample ID	Soil Cleanup Objectives[(a)]			SB-11(8-10)	SB-11(10-12)	SB-11(12-14)	SB-11(16-18)	SB-12A(0-2)	SB-12A(0-2) DUP	SB12(8-10)
Lab ID	Unrestricted	Restricted -		D4759-08	D4759-09	D4759-10	D4759-12	D4715-14	D4715-17	D4690-18
Sample Date	Use	Residential	Industrial	11/06/12	11/06/12	11/06/12	11/06/12	10/26/12	10/26/12	10/25/12
Arsenic	13	16	16	---	---	**14.4 J**	---	---	---	---
Barium	350	400	10,000	---	---	**588**	---	---	---	---
Cadmium	2.5	4.3	60	---	---	**3.73**	---	---	**2.9 J**	---
Chromium	30	180	6,800	---	---	**36.1 J**	---	**49.1 J**	**148 J**	---
Copper	50	270	10,000	---	**107 J**	**139 J**	---	---	---	**63.5 J**
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---
Lead	63	400	3,900	**901 J**	**421 J**	**4,120 J**	---	**66.7 J**	**191 J**	**464**
Manganese	1,600	2,000	10,000	---	---	---	---	---	**2,080 J**	---
Mercury	0.18	0.81	5.7	---	---	---	---	---	---	---
Nickel	30	310	10,000	**41.1 J**	**38.6 J**	**41.3 J**	**39 J**	---	---	**35.8**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	**3.35 J**	---	---	---	---
Zinc	109	10,000	10,000	**153**	**465**	**4,040 D**	---	**111 J**	**293 J**	**364**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-12				SB-13			
Sample ID	Soil Cleanup Objectives[(a)]			SB12(12-14)	SB12(14-16)	SB12(16-18)	SB12(18-20)	SB13(0-4)	SB13(4-8)	SB13(8-10)	SB13(10-12)
Lab ID	Unrestricted	Restricted -		D4690-19	D4690-20	D4690-21	D4690-22	D4685-01	D4685-04	D4685-05	D4685-06
Sample Date	Use	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	13	16	16	---	---	---	---	---	**19.7**	---	**21.5**
Barium	350	400	10,000	---	---	---	---	---	**584 J**	---	**397 J**
Cadmium	2.5	4.3	60	---	---	**4.42**	---	---	**42.7**	---	**17.1**
Chromium	30	180	6,800	---	---	**134 J**	---	---	**89.9 J**	---	**50.4 J**
Copper	50	270	10,000	---	---	**67.2 J**	---	---	**309 J**	---	**684 J**
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	---	**810**	**112**	---	***5,470***	---	**2,040**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	---	---	---	---	---	---	---
Nickel	30	310	10,000	**44.2**	**43.9**	**36.3**	**43.4**	---	**147**	**41.8**	**342**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	**2.39**	---	---	---	**2.09**	---
Zinc	109	10,000	10,000	**112**	---	**583**	**132**	**139**	**1,760**	**149**	**1,990**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-13				SB-14			
Sample ID	Soil Cleanup Objectives[a]			SB13(12-14)	SB13(16-18)	SB13(20-22)	SB13(23-25)	SB14(0-2)	SB14(0-2) DUP	SB14(2-4)	SB14(4-6)
Lab ID	Unrestricted	Restricted -		D4685-07	D4685-08	D4685-09	D4685-10	D4690-01	D4685-11	D4690-04	D4690-05
Sample Date	Use	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	13	16	16	---	---	**51.5**	---	---	---	---	---
Barium	350	400	10,000	---	---	**1,500 J**	---	---	---	---	---
Cadmium	2.5	4.3	60	---	**3.98**	**19.5**	---	---	---	---	---
Chromium	30	180	6,800	---	---	**67.1 J**	---	---	---	---	---
Copper	50	270	10,000	---	**178 J**	**1,510 J**	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	**789**	***6,820***	---	---	---	---	---
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	**0.607 D**	---	---	---	---	---	---
Nickel	30	310	10,000	**50.2**	**50.7**	**59.0**	**38.3**	**33.7**	**52.2**	---	**40.9**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	**2.47**	**6.21**	---	---	**2.06**	---	---
Zinc	109	10,000	10,000	**142**	**794**	**4,910 D**	---	**601 J**	---	**255**	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-14			SB-15					SB-16
Sample ID	Soil Cleanup Objectives[(a)]			SB14(6-8)	SB14(8-10)	SB14(10-12)	SB15(0-2)	SB15(2-4)	SB15(4-6)	SB15(6-8)	SB15(8-10)	SB16(2-4)
Lab ID	Unrestricted	Restricted -		D4690-06	D4690-07	D4690-08	D4685-16	D4685-17	D4685-18	D4685-19	D4685-20	D4690-10
Sample Date	Use	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	13	16	16	---	---	---	---	---	---	---	---	---
Barium	350	400	10,000	---	---	---	---	---	---	---	---	---
Cadmium	2.5	4.3	60	---	---	---	---	---	---	---	---	---
Chromium	30	180	6,800	---	---	---	---	---	---	---	---	---
Copper	50	270	10,000	---	---	---	---	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	---	---	**99.7**	---	---	---	---	**96.4**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	---	---	**0.704 D**	---	---	---	---	---
Nickel	30	310	10,000	**41.9**	**44.8**	**44.3**	**30.3**	**48.2**	**44.6**	**45.2**	**35.8**	---
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	---	---	**2.03**	---	---	---	---
Zinc	109	10,000	10,000	---	---	---	**467**	---	---	---	---	**263**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-16					SB-17			
Sample ID	Soil Cleanup Objectives[(a)]			SB16(4-6)	SB16(6-8)	SB16(8-10)	SB16(10-12)	SB16(12-14)	SB17(0-2)	SB17(4-6)	SB17(6-8)	SB17(8-10)
Lab ID	Unrestricted	Restricted -		D4690-11	D4690-12	D4685-12	D4685-13	D4685-14	D4685-21	D4690-14	D4690-15	D4690-16
Sample Date	Use	Residential	Industrial	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12	10/25/12
Arsenic	13	16	16	---	***24.2 J***	---	---	---	---	---	---	---
Barium	350	400	10,000	---	---	---	---	---	---	---	---	---
Cadmium	2.5	4.3	60	---	---	---	---	---	---	---	---	---
Chromium	30	180	6,800	---	---	---	---	---	---	---	---	---
Copper	50	270	10,000	---	---	---	---	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	---	---	---	---	**133**	---	---	---
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	---	---	---
Mercury	0.18	0.81	5.7	---	---	---	---	---	---	---	---	---
Nickel	30	310	10,000	**42.8**	**73.5**	**35.5**	**38.6**	**45.6**	**31.8**	**55.0**	**53.7**	**50.0**
Selenium	3.9	180	6,800	---	---	---	---	---	---	---	---	---
Silver	2	180	6,800	---	---	---	---	---	---	**2.06**	---	---
Zinc	109	10,000	10,000	---	---	---	---	---	**245**	---	---	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			SB-17	SB-18					Surface Soil	
Sample ID	Soil Cleanup Objectives[(a)]			SB17(10-12)	SB-18(0-2)	SB-18(0-2) DUP	SB-18(2-4)	SB-18(8-10)	SB-18(10-12)	SS-01	SS-05
Lab ID	Unrestricted	Restricted -		D4690-17	D4715-07	D4715-13	D4715-10	D4715-11	D4715-12	D4664-01	D4664-03
Sample Date	Use	Residential	Industrial	10/25/12	10/26/12	10/26/12	10/26/12	10/26/12	10/26/12	10/24/12	10/24/12
Arsenic	13	16	16	---	---	**41.1 J**	---	---	---	---	---
Barium	350	400	10,000	---	---	---	---	---	---	---	---
Cadmium	2.5	4.3	60	---	---	---	---	---	---	---	---
Chromium	30	180	6,800	---	---	---	---	---	---	---	---
Copper	50	270	10,000	---	---	---	---	---	---	---	---
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---
Lead	63	400	3,900	---	**81.1 J**	**84.2**	---	---	---	**88.7 J**	**69.8 J**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	**1,610 J**	---
Mercury	0.18	0.81	5.7	---	---	**0.223 J**	---	---	---	---	---
Nickel	30	310	10,000	**39.4**	---	---	---	**34.5 J**	**38.7 J**	---	---
Selenium	3.9	180	6,800	---	---	---	---	---	---	**5.25**	---
Silver	2	180	6,800	---	---	---	---	---	---	---	---
Zinc	109	10,000	10,000	---	**183 J**	**118 J**	**223 J**	---	---	**312**	---

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			Surface Soil									
Sample ID	Soil Cleanup Objectives[a]			SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-12 DUP	SS-13	SS-14
Lab ID	Unrestricted	Restricted -		D4664-04	D4664-05	D4664-06	D4664-07	D4664-08	D4664-09	D4664-10	D4664-19	D4664-11	D4664-12
Sample Date	Use	Residential	Industrial	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12	10/24/12
Arsenic	13	16	16	---	---	**14.5**	**13.1**	---	---	---	---	---	---
Barium	350	400	10,000	---	---	---	**398 J**	---	---	---	---	---	**399 J**
Cadmium	2.5	4.3	60	---	---	**6.27 J**	**6.87 J**	**3.1 J**	**2.78 J**	**4.73 J**	**6.15 J**	**2.83 J**	**22 J**
Chromium	30	180	6,800	---	**40.5 J**	**32.9 J**	**35.7 J**	---	---	**513 J**	**506 J**	**49.6 J**	**60.5 J**
Copper	50	270	10,000	---	---	**166 J**	**115 J**	**91.9 J**	**80.4 J**	**63 J**	---	**51 J**	**406 J**
Cyanide, Total	27	27	10,000	---	---	---	---	---	---	---	---	---	---
Lead	63	400	3,900	**65.2 J**	---	**2,180 J**	**965 J**	**595 J**	**401 J**	**169 J**	**168 J**	**146 J**	**2,330 J**
Manganese	1,600	2,000	10,000	---	---	---	---	---	---	**4,190 J**	**3,080 J**	---	---
Mercury	0.18	0.81	5.7	---	---	**0.228 J**	**0.695 J**	**0.263 J**	**0.326 J**	---	---	---	**0.261 J**
Nickel	30	310	10,000	---	---	**56.5 J**	**63.4 J**	---	---	**40.8 J**	**40.3 J**	**42.3 J**	**80.6 J**
Selenium	3.9	180	6,800	---	---	**7.59**	**8.55**	**4.0**	**6.38**	**13.3**	**15.2**	**6.93**	**14.8**
Silver	2	180	6,800	---	---	---	---	---	---	---	---	---	---
Zinc	109	10,000	10,000	**135**	---	**886**	**1,090**	**541**	**711**	**188**	**210**	**368**	**1,840**

TABLE 9 INORGANIC EXCEEDANCES IN SOIL

Location	NYSDEC PART 375			Surface Soil		
Sample ID	Soil Cleanup Objectives[(a)]			SS-16	SS-17	SS-18
Lab ID	Unrestricted	Restricted -		D4664-16	D4664-17	D4664-18
Sample Date	Use	Residential	Industrial	10/24/12	10/24/12	10/24/12
Arsenic	13	16	16	---	---	---
Barium	350	400	10,000	---	---	---
Cadmium	2.5	4.3	60	---	---	---
Chromium	30	180	6,800	---	---	---
Copper	50	270	10,000	---	---	---
Cyanide, Total	27	27	10,000	---	---	---
Lead	63	400	3,900	---	**88.9 J**	**66.4 J**
Manganese	1,600	2,000	10,000	---	---	---
Mercury	0.18	0.81	5.7	---	---	---
Nickel	30	310	10,000	---	---	---
Selenium	3.9	180	6,800	---	---	---
Silver	2	180	6,800	---	---	---
Zinc	109	10,000	10,000	**117**	**149**	---

TABLE 10 SEDIMENT VOLATILE ORGANIC COMPOUND RESULTS

Location	SD-03	SD-03A	SD-04	SD-05A	SD-05B	SD-06A	SD-06B	SD-06FP	SD-07A	SD-07B	SD-07B
Sample ID	915206-SD-03	915206-SD-03A	915206-SD-04	915206-SD-05A	915206-SD-05B	915206-SD-06A	915206-SD-06B	915206-SD-06FP	915206-SD-07A	915206-SD-07B	915206-SD-07B DUP
Lab ID	D4715-18	D4608-07	D4608-08	D4608-01	D4608-02	D4608-03	D4608-04	D4608-09	D4608-05	D4608-06	D4608-13
Sample Date	10/26/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Acetone	0.039 U	0.064	0.075	0.046	0.034 J	0.051	0.042	0.035 U	0.028 J	0.070	0.078
2-Butanone	0.039 U	0.037 U	0.020 J	0.038 U	0.040 U	0.037 U	0.042 U	0.035 U	0.037 U	0.022 J	0.024 J
Tetrachloroethene	0.008 U	0.003 J	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.007 U	0.007 U	0.009 U	0.009 U
Toluene	0.008 U	0.003 J	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.007 U	0.007 U	0.009 U	0.009 U

NOTE: ID = Identification
U = Not detected; the associated number is the reporting limit.
J = Estimated concentration.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Method 8260. Data Validation completed by Data Validation Services.
Table includes only those constituents that were detected in one or more sample.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).

TABLE 11 SEDIMENT SEMIVOLATILE ORGANIC COMPOUND RESULTS

Location	SD-03	SD-03A	SD-04	SD-05A	SD-05B	SD-06A	SD-06B	SD-06FP	SD-07A	SD-07B	SD-07B
Sample ID	915206-SD-03	915206-SD-03A	915206-SD-04	915206-SD-05A	915206-SD-05B	915206-SD-06A	915206-SD-06B	915206-SD-06FP	915206-SD-07A	915206-SD-07B	915206-SD-07B DUP
Lab ID	D4715-18	D4608-07	D4608-08	D4608-01	D4608-02	D4608-03	D4608-04	D4608-09	D4608-05	D4608-06	D4608-13
Sample Date	10/26/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Anthracene	0.510 U	0.370 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Benzo(a)anthracene	0.510 U	0.870	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Benzo(a)pyrene	0.510 U	0.840 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Benzo(b)fluoranthene	0.510 U	1.2 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.190 J	0.490 U	0.590 U	0.580 U
Benzo(g,h,i)perylene	0.510 U	0.600 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Benzo(k)fluoranthene	0.510 U	0.440 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Anthracene	0.510 U	0.200 J	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Chrysene	0.510 U	1.0	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Dimethylphthalate	0.510 U	0.469 J	0.596	0.590	0.498 J	0.464 J	0.618	0.488	0.332 J	0.546 J	0.682
Fluoranthene	0.420 J	2.6	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.240 J	0.490 U	0.590 U	0.580 U
Indeno(1,2,3-cd)pyrene	0.510 U	0.540	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Phenanthrene	0.260 J	1.9	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.460 U	0.490 U	0.590 U	0.580 U
Pyrene	0.290 J	2.1	0.550 U	0.510 U	0.520 U	0.490 U	0.550 U	0.210 J	0.490 U	0.590 U	0.580 U

NOTE: ID = Identification
U = Not detected; the associated number is the reporting limit.
J = Estimated concentration.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Methods 8270. Data Validation completed by Data Validation Services.
Table includes only those constituents that were detected in one or more sample.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).

TABLE 12 SEDIMENT SAMPLE TOTAL ORGANIC CARBON RESULTS

Location	SD-03	SD-03A	SD-04	SD-05A	SD-05B	SD-06A	SD-06B	SD-06FP	SD-07A	SD-07B	SD-07B
Sample ID	SD-03	SD-03A	SD-04	SD-05A	SD-05B	SD-06A	SD-06B	SD-06FP	SD-07A	SD-07B	SD-07BDUP
Lab ID	D4715-18DL	D4608-07DL	D4608-08DL	D4608-01DL	D4608-02DL	D4608-03DL	D4608-04DL	D4608-09DL	D4608-05DL	D4608-06DL	D4608-13DL
Sample Date	10/26/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
TOC (mg/kg)	27,000 J	56,000 J	22,000 J	25,000 J	16,000 J	23,000 J	25,000 J	23,000 J	25,000 J	22,000 J	24,000 J

NOTE: ID = Identification
TOC = Total organic carbon
m g/kg = Milligrams per kilogram
J = Estimated concentration.
Analytical data results obtained by Chemtech Consulting Group by Lloyd Kahn.
All concentrations reported in mg/kg equivalent to parts per million (ppm).

TABLE 13 SEDIMENT INORGANIC CONSTITUENT RESULTS

Location	NYSDEC Technical Guidance		SD-03	SD-03A	SD-04	SD-05A	SD-05B	SD-06A	SD-06B	SD-06FP	SD-07A	SD-07B	SD-07B
Sample ID	Sediment Criteria[a]		915206-SD-03	915206-SD-03A	915206-SD-04	915206-SD-05A	915206-SD-05B	915206-SD-06A	915206-SD-06B	915206-SD-06FP	915206-SD-07A	915206-SD-07B	915206-SD-07B DUP
Lab ID	Lowest Effect	Severe Effect	D4715-18	D4608-07	D4608-08	D4608-01	D4608-02	D4608-03	D4608-04	D4608-09	D4608-05	D4608-06	D4608-13
Sample Date	Level	Level	10/26/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
Aluminum	---	---	5,700 J	4,680	6,380	8,050	8,000	8,210	8,570	8,810	6,300	6,390	5,990
Antimony	2.0	25.0	1.64 UJ	1.58 UJ	1.77 UJ	1.68 UJ	1.65 UJ	1.68 UJ	1.78 UJ	1.43 UJ	1.51 UJ	1.95 UJ	1.84 UJ
Arsenic	6.0	33.0	4.67 J	3.96	5.2	**6.23**	**6.29**	**6.46**	**6.74**	**6.53**	4.72	3.65	3.85
Barium	---	---	46.6 J	60.4 J	65.4 J	55.2 J	51 J	56.7 J	59.8 J	91.2 J	51 J	54.7 J	58 J
Beryllium	---	---	0.140 J	0.310	0.260	0.250	0.270	0.260	0.260	0.310	0.240	0.270	0.230
Cadmium	0.6	9.0	**1.88 J**	**0.830**	0.370	0.260	0.410	0.240	0.230	**0.900**	0.390	0.360	0.270
Calcium	---	---	13,100 J	41,200 J	32,000 J	25,400 J	23,500 J	25,900 J	27,400 J	17,900 J	22,600 J	24,200 J	26,700 J
Chromium	26.0	110	14.2 J	22.8 J	12.9 J	13 J	13 J	13.3 J	13.9 J	16.4 J	11.5 J	12.1 J	10.8 J
Cobalt	---	---	6.46	4.95	7.99	10.1	10	10.3	10.7	11.3	8.03	7.49	7.73
Copper	16.0	110	**45 J**	**41.9 J**	**33.3 J**	**26.7 J**	**26.9 J**	**27.2 J**	**28.3 J**	**43.8 J**	**23.9 J**	**25.6 J**	**24.6 J**
Cyanide, Total	---	---	0.227 J	0.089 J	0.419 U	0.383 U	0.397 U	0.375 U	0.420 U	0.052 J	0.372 U	0.445 U	0.437 U
Iron	---	---	13,400 J	14,800 J	21,100 J	23,500 J	21,700 J	24,300 J	25,400 J	26,500 J	17,400 J	15,800 J	17,100 J
Lead	31.0	110	**138**	**65.3**	**53.8**	19.2	18.9	19.5	20.3	**97.1**	23	20	22
Magnesium	---	---	3,340 J	4,500 J	8,090 J	7,920 J	7,310 J	8,080 J	8,540 J	5,580 J	5,580 J	4,280 J	4,520 J
Manganese	460	1,100	133 J	326 J	**798 J**	381 J	381 J	390 J	406 J	**557 J**	324 J	286 J	273 J
Mercury	0.15	1.3	0.046	0.026	0.027	0.018	0.021	0.019	0.022	0.060	0.039	0.029	0.025
Nickel	16.0	50.0	**20 J**	**17.7**	**23.9**	**28.4**	**28.1**	**29.1**	**30.2**	**36.5**	**22.8**	**22.6**	**22.5**
Potassium	---	---	608 J	564 J	878 J	1,160 J	1,070 J	1,210 J	1,260 J	1,050 J	844 J	697 J	754 J
Selenium	---	---	0.440 J	2.58	3.5	3.41	3.01	3.48	3.68	4.14	2.62	2.46	2.63
Silver	1.0	2.2	0.380 J	0.210 J	0.500	0.270 J	0.330 U	0.340	0.360 J	0.550	0.110 J	0.390 U	0.270 J
Sodium	---	---	280 J	298 J	1,920 J	165 J	153 J	169 J	177 J	44.7 J	208 J	167 J	142 J
Thallium	---	---	0.550 J	0.730 J	1.53	1.5	1.13 J	1.45	1.46	1.89	0.780 J	0.850 J	0.640 J
Vanadium	---	---	10.5 J	10.8	15	14.4	14.5	14.6	15.3	14.6	11.8	12.1	11.3
Zinc	120	270	**298 J**	**238 J**	**235 J**	84.8 J	78.5 J	88.2 J	91.4 J	**198 J**	107 J	92.3 J	98.8 J

(a) NYSDEC. 1999. Division of Fish, Wildlife and Marine Resources. Technical Guidance for Screening Contaminated Sediments. January.

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
--- = Not analyzed
J = Estimated concentration.
U = Not detected; the associated number is the reporting limit.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Methods 6000/7000. Data Validation completed by Data Validation Services.
All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm).
Bolded values indicate exceedance of NYSDEC Lowest Effect Levels (LEL).
Bolded and shaded values indicate exceedance of NYSDEC Severe Effect Levels (SEL).

TABLE 14 SURFACE WATER INORGANIC CONSTITUENT RESULTS

SampleID	NYSDEC			SW-03	SW-04	SW-04 DUP
Lab ID	Class C			D4759-14	D4759-13	D4759-15
Sample Date	Criteria			11/07/12	11/07/12	11/07/12
Aluminum	100			27.3	13.7 J	8.55 J
Antimony	---			7.4 JN	4.59 JN	6.34 JN
Barium	---			81.5	164	170
Cadmium	SW-03 = 107.26	SW-04 = 141.73	SW-04 DUP = 141.24	0.270 J	1.5 U	1.5 U
Calcium	---			147,000	213,000	217,000
Copper	SW-03 = 188.37	SW-04 = 254.26	SW-04 DUP = 253.31	7.9	1.34 J	1.4 J
Cyanide, Total	5.2			**8.0**	**32.0**	---
Iron	---			62.4	2,290	2,380
Magnesium	---			29,200	34,800	35,300
Manganese	---			8.5	1,910	1,850
Potassium	---			18,100 J	8,020 J	8,350 J
Selenium	4.6			**6.98**	3.09 JN	4.2 JN
Sodium	---			410,000 J	1,420,000 J	4,770,000 J
Zinc	SW-03 = 192.99	SW-04 = 259.33	SW-04 DUP = 258.38	23.5	91.3	89.9
Hardness, ppm	---			487	690	687

(a) 6 NYCRR Part 703.5 Class C Surface water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended.

NOTE: ID = Identification

NYSDEC = New York State Department of Environmental Conservation

J = Estimated concentration.

--- = Not available.

N = Tentatively identified.

ppm = Parts per million

U = The constituent was not detected. The associated value is the detection limit.

Table includes only those constituents that were detected in one or more samples.

Analytical data results obtained by Chemtech Consulting Group using SW-846 Method Series 6000/7000 and EPA Method 300.

Data Validation completed by Data Validation Services.

All concentrations reported in micrograms per liter (µg/L) equivalent to parts per billion (ppb).

Bolded values indicate exceedance of Class C surface water standards or guidance values.

TABLE 15 GROUNDWATER VOLATILE ORGANIC COMPOUND RESULTS

Sample ID	NYSDEC Class GA Criteria ($\mu g/L$)[a]	MW-02A	MW-03A	MW-04	MW-05	MW-06	MW-07	MW-08	MW-08 DUP
Lab ID		D4968-11	D4968-01	D4968-02	D4968-12	D4968-03	D4968-04	D4968-13	D4968-14
Sample Date		11/29/12	11/28/12	11/28/12	11/29/12	11/28/12	11/28/12	11/29/12	11/29/12
Acetone	50 G	7.6	5 U	**63**	5 U	**68**	5 U	36 J	21 J
cis-1,2-Dichloroethene	5	1 U	1 U	0.590 J	1 U	0.550 J	1 U	1 U	1 U

(a) 6 NYCRR Part 703.5 Class GA Groundwater Quality Regulations, as presented in the Division of WaterTechnical and Operational Guidance Series 1.1.1, 1998, as amended.

NOTE: ID = Identification
NYSDEC = New York State Department of Environmental Conservation
$\mu g/L$ = Micrograms per liter
G = Guidance value.
U = The constituent was not detected. The associated value is the detection limit.
J = Estimated concentration.
Analytical data results obtained by Chemtech Consulting Group using SW-846 Method 8260. Data Validation completed by Data Validation Services.
Table includes only those volatile organic compounds detected in one or more sample.
All concentrations reported in $\mu g/L$ equivalent to parts per billion (ppb).
Bolded values indicate exceedance of Class GA groundwater standards or guidance values.

TABLE 16 GROUNDWATER INORGANIC RESULTS

Sample ID	NYSDEC	MW-02A	MW-03A	MW-04	MW-05	MW-06	MW-07	MW-08	MW-08 DUP
Lab ID	Class GA	D4968-11	D4968-01	D4968-02	D4968-12	D4968-03	D4968-04	D4968-13	D4968-14
Sample Date	Criteria[a]	11/29/12	11/28/12	11/28/12	11/29/12	11/28/12	11/28/12	11/29/12	11/29/12
INORGANICS									
Aluminum	---	2,650 J	193 J	7,040 J	145 J	8,100 J	8,220 J	866 J	592 J
Antimony	3	**5.48 J**	**6.08 J**	**4.56 J**	**4.84 J**	12.5 UJ	12.5 UJ	**5.62 J**	**5.5 J**
Arsenic	25	9.3 J	12.3 J	6.9 J	8.4 J	13.6 J	12.3 J	2.9 J	2.5 J
Barium	1,000	248	250	145	177	255	290	279	284
Beryllium	3 G	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	0.420 J	1.5 UJ	1.5 UJ
Cadmium	5	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	0.290 J	1.5 UJ	1.5 UJ
Calcium	---	59,500	92,300	74,800	46,900	76,000	123,000	90,700	93,700
Chromium	50	64.6 U	24.2 U	**293 J**	10 J	69.9 U	175 U	7.68 J	2.38 J
Cobalt	---	3.33 J	7.5 U	9.02	7.5 U	5.78 J	7.72	7.5 U	7.5 U
Copper	200	15.7 UJ	5.58 UJ	23.2 UJ	5.46 J	15.6 UJ	27.7 UJ	2.66 J	1.62 J
Cyanide, Total	200	3.0 J	3.0 J	4.0 J	4.0 J	4.0 J	3.0 J	3.0 J	5 U
Iron	300	**4,200**	993 U	**12,300**	196	**12,100**	**15,000**	**949**	**728**
Lead	25	4.94 J	3 UJ	7.26 J	3 UJ	7.08 J	**30.5 J**	3 UJ	3 UJ
Magnesium	35,000 G	30,600	**53,000**	**36,100**	27,800	**37,600**	**43,500**	**52,200**	**53,200**
Manganese	300	147 J	**342 J**	**364 J**	50 J	283 J	**338 J**	65.8 J	66.3 J
Mercury	0.7	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.109 J	0.200 UJ	0.200 UJ
Nickel	100	43.6 U	20.7 U	**195**	6.8 J	52.2 U	**123**	5.89 J	2.49 J
Potassium	---	2,490 J	7,090 J	6,130 J	2,190 J	4,820 J	4,940 J	2,810 J	2,740 J
Sodium	20,000	**30,800**	**214,000**	**27,400 J**	**32,000**	**48,800**	**35,300**	**29,600**	**30,500**
Vanadium	---	5.48 J	10 UJ	13.5 J	10 UJ	15 J	16.6 J	10 UJ	10 UJ
MISCELLANEOUS									
Alkalinity, Total (as CaCO3)	---	380,000	410,000	380,000	360,000	460,000	360,000	400,000	400,000
Chloride	250,000	**26,000 D**	**410,000 D**	**48,000 D**	**8,300**	**29,000 D**	110,000 D	**78,000 D**	**77,000 D**
Demand, Biochemical Oxygen	---	2,000 U	17,000	41,000	14,000	6,500	34,000	19,000	22,000
Demand, Chemical Oxygen	---	5,370	10,400	6,380	9,390	33,500	18,400	5,000 U	5,000 U
Nitrogen, Nitrate (as N)[b]	10,000	100 U	100 U	100 U	**353**	**318**	**288**	100 U	100 U
Nitrite	1,000	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Sulfate	250,000	18,000	**34,000**	120,000 D	15,000	25,000	22,000	**47,000**	**45,000**
Sulfide	50 G	1,000 U	1,000 U	1,120	1,280	1,120	1,000 U	1,440	1,280

(a) 6 NYCRR Part 703.5 Class GA Groundwater Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended.

(b) Criterion applies to the sum of nitrate/nitrite.

NOTE: ID = Identification

NYSDEC = New York State Department of Environmental Conservation

--- =

J = Estimated concentration.

U = The constituent was not detected. The associated value is the detection limit.

G = Guidance Value

D = Result obtained from a dilution run.

Table includes only those inorganic constituents that were detected in one or more samples.

Analytical data results obtained by Chemtech Consulting Group using SW-846 Method Series 6000/7000 and EPA Method 300. Data Validation completed by Data Validation Services.

All concentrations reported in micrograms per liter (µg/L) equivalent to parts per billion (ppb).

Bolded values indicate exceedance of Class GA groundwater standards or guidance values.

ATTACHMENT A

SUBSURFACE BORING LOGS

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027406.486 Easting: 1084478.181
Surface Elevation: 595.0408
Casing Below Surface: N/A
Reference Elevation: 595.0408
Reference Description: Surface Elevation

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-05
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 08:15	TIME: 08:27

Surface Conditions: Athletic Field (Grass, Topsoil)
Weather: Sunny, 5-10 mph S
Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.0	0	OL	0.0': Topsoil: Dark Brown, SILT and CLAY, some f. Sand, tr. Organic Matter, medium stiff, moist.
					OL	0.2' - 4.0': Light Brown, SILT and CLAY, tr. f. Sand, tr. Organic Matter, hard, moist.
			3.3	1		
			3.9	2		
			2.0	3		
	4/4		2.3	4	OH	4.0' - 8.0': Reddish Brown, CLAY, tr. Silt, tr. Organic Matter, hard, moist.
			5.7	5		
			4.8	6		
			4.7	7		
				8		EOB @ 8.0-ft bgs
				9		
				10		
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027291.353 Easting: 1084476.187
Surface Elevation: 595.6351
Casing Below Surface: N/A
Reference Elevation: 595.6351
Reference Description: Surface Elevation

Job. No.	Client:	Location:
1490710	Project: Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-06
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 07:52	TIME: 08:00

Surface Conditions: Athletic Field (Grass, Topsoil)
Weather: Sunny, 5-10 mph S
Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.8	0	OL	0.0': Topsoil: Dark Brown, SILT and CLAY, some f. Sand, tr. Organic Matter, medium stiff, moist.
					OL	0.2' - 2.0': Light Brown, SILT and CLAY, tr. f. Sand, hard, moist.
			1.1	1		
			2.7	2	SM	2.0' - 2.5': Light Brown, f. SAND, some Silt.
					OL	2.5' - 4.0': Light Brown, SILT and CLAY, tr. Organic Matter, hard, moist.
			0.6	3		
	4/4		1.5	4	OH	4.0' - 8.0': Reddish Brown, CLAY, some Silt, tr. Organic Matter, hard, moist.
			1.4	5		
			1.3	6		
			0.6	7		
				8		EOB @ 8.0-ft bgs
				9		
				10		
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push

Soil Boring Number: SB-07

Sampling Method: Sterilized acetate sleeves

Sheet 1 of 1

LOG OF SOIL BORING

Coordinates: Northing 1027157.138 Easting: 1084484.459
Surface Elevation: 595.65
Casing Below Surface: N/A
Reference Elevation: 595.65
Reference Description: Surface Elevation

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 07:25	TIME: 07:36

Surface Conditions: Athletic Field (Grass, Topsoil)
Weather: Sunny, 5-10 mph S
Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.0	0	OL	0.0': Topsoil: Dark Brown, SILT and CLAY, some f. Sand, tr. Organic Matter, soft, moist. 0.2' - 2.0': Fill: Black - Dark Brown, Brick, Cinders, Gravel, hard, moist.
			1.4	1		
			0.9	2	SM	2.0' - 4.0': Brown, SILT and f. SAND, hard, moist.
			0.0	3		
	4/4		0.0	4	CH	4.0' - 8.0': Light Brown, CLAY, tr. Silt, hard, moist.
			0.0	5		
			0.0	6		
			0.0	7		
	4/4		0.0	8		8.0' - 12.0': Gray, CLAY, tr. Silt, hard, moist.
			0.0	9		
			0.0	10		
			0.0	11		
				12		EOB @ 12.0-ft bgs
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027392.75 Easting: 1084834.944
Surface Elevation: 597.12
Casing Below Surface: N/A
Reference Elevation: 597.12
Reference Description: Surface Elevation

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-08
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 09:40	TIME: 09:47

Surface Conditions: Grass, Topsoil
Weather: Sunny, 5-10 mph S
Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.1	0		0.0' - 4.0': Fill: Dark Brown, Cinders, Glass, Gravel, soft, dry.
			2.4	1		
			3.1	2	OL	4.0' - 6.0': Brownish Gray, SILT and CLAY, tr. Organic Matter, hard, moist.
			1.2	3		
	4/4		0.2	4		
			0.7	5		
			1.1	6	CH	6.0' - 8.0': Gray, CLAY, hard, moist.
			1.4	7		
				8		EOB @ 8.0-ft bgs
				9		
				10		
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027245.623 Easting: 1084853.389
Surface Elevation: 595.6
Casing Below Surface: N/A
Reference Elevation: 595.6
Reference Description: Surface Elevation

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-09
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 09:20	TIME: 09:30

Surface Conditions: Grass, Topsoil
Weather: Sunny, 5-10 mph S
Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		4.7	0	SP	0.0': Topsoil: Dark Brown, m-c Sand, some Gravel, tr. Organic Matter, medium stiff, moist.
					OL	0.2' - 4.0': Brown, SILT, tr. Clay, tr. Organic Matter, hard, dry.
			2.6	1		
			2.4	2		
			1.2	3		
	4/4		1.0	4	OH	4.0' - 8.0': Brown, CLAY, tr. Silt, tr. Organic Matter, medium plasticity, hard, moist.
			2.3	5		
			0.3	6		
			1.6	7		
				8		EOB @ 8.0-ft bgs
				9		
				10		
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push

Soil Boring Number: SB-10

Sampling Method: Sterilized acetate sleeves

Sheet 1 of 1

LOG OF SOIL BORING

Coordinates: Northing 1027087.154 Easting: 1084843.415

Surface Elevation: 595.68

Casing Below Surface: N/A

Reference Elevation: 595.68

Reference Description: Surface Elevation

Water Level:				
Time:				
Date:				

Drilling	
Start	**Finish**
DATE: 10-26-12	DATE: 10-26-12
TIME: 09:00	TIME: 09:10

Surface Conditions: Grass, Topsoil

Weather: Sunny, 5-10 mph S

Temperature: 67F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
			0.0	0	SP	0.0': Topsoil: Dark Brown, m-c Sand, some Gravel, tr. Organic Matter, medium stiff, moist.
					OL	0.2' - 4.0': Light Brown, SILT, some Clay, tr. f. Sand, tr. Organic Matter, soft, dry.
			2.2	1		
	4/4					
			1.8	2		
			1.5	3		
			0.1	4	OH	4.0' - 6.0': Light Brown, CLAY and SILT, tr. f. Sand, hard, dry.
			0.3	5		
	4/4					
			1.4	6		6.0' - 8.0': Gray, CLAY, moderate plasticity, hard, moist.
			1.3	7		
				8		EOB @ 8.0-ft bgs
				9		
				10		
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-26-12

Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.5" Hollow Stem Auger

Soil Boring Number: SB-11

Sampling Method: 55 / macro Cores

Sheet 1 of 1

LOG OF SOIL BORING

Coordinates: Northing 1027171.742 Easting: 1084688.557
Surface Elevation: 604.21
Casing Below Surface: N/A
Reference Elevation: 604.21
Reference Description: Surface Elevation

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 11-16-12	DATE: 11-16-12
Date:					TIME: 14:40	TIME: 1650

Surface Conditions: Gravel
Weather: Sunny
Temperature: 38F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
12	2/1.5		1.1	0		0.0'-1.5': Fill: CLAY and SILT, some fine SAND, some GRAVEL, glass, slag, wood; hard; moist
23						
14				1		
18						
21	2/2		3.7	2		2.0'-2.5': Fill: Brown; CLAY and SILT, some fine SAND, trace GRAVEL, trace glass, trace slag; hard; moist
19						2.5'-4.0': Fill: Black; CLAY and SILT, some fine SAND, trace GRAVEL, trace glass, trace slag; hard; moist
31				3		
24						
5	2/2		11.1	4		4.0'-6.0': Fill: Gray; CLAY and SILT, some fine SAND, trace GRAVEL, trace glass, trace slag, brick; hard; moist
6						
7				5		
10						
10	2/2		10.5	6		6.0'-8.0': Fill: Brown; CLAY and SILT, trace glass, trace slag, trace metal fragments; hard; moist
10						
9				7		
9						
6	2/2		10.8	8		8.0'-9.0': Fill: Brown; CLAY and SILT, trace glass, trace slag, trace metal fragments; hard; moist
2						
8				9		9.0'-10.0': Fill: loose slag and gravel; saturated. Unable to sample, no sediment
21						
15	2/2		6.2	10		10.0'-12.0': Fill: Black; CLAY and SILT, some fine SAND, coal, slag, glass; stiff; saturated
14						
20				11		
16						
10	2/1.5		5.1	12		12.0'-13.5': Fill: Black; CLAY and SILT, some fine SAND, coal, slag, glass; stiff; saturated
6						
5				13		
18						
6	2/1.8		0.0	14		14.0'-15.8': Light brown; SILT and CLAY; hard; moist; moderate plasticity
9						
16				15		
24						
25	2/2		0.0	16		16.0'-18.0: Light brown; SILT and CLAY; hard; moist; moderate plasticity
28						
33				17		
40						
				18		End of hole at 18 ft bgs
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 11-16-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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LOG OF SOIL BORING

Coordinates: Northing 1027237.4 Easting: 1084662.13
Surface Elevation: 609.54
Casing Below Surface: N/A
Reference Elevation: 609.54
Reference Description: Surface Elevation

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-12
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 15:20	TIME: 15:45

Surface Conditions: Grass, Topsoil
Weather: Sunny, 10-15 mph S
Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/2		0.0	0		0.0'-2.0': Brown (fill); GRAVEL, some medium SAND, trace glass
			0.1	1		
				2		2.0'-4.0': No recovery
				3		
	4/0			4		4.0' - 8.0': No recovery
				5		
				6		
				7		
	4/2		3.2	8		8.0'-10.0': Brown (fill); GRAVEL, some medium SAND, trace glass
			0.0	9		
				10		10.0'-12.0': No recovery
				11		
	4/4		0.0	12		12.0'-16.0': Brown; CLAY, some SILT
			0.0	13		
			0.0	14		
			0.0	15		
	4/4		0.0	16		16.0'-18.0': Black (fill); ash GRAVEL, coarse SAND; moist
			0.0	17		
			0.0	18		18.0'-20.0': Reddish brown; CLAY, trace SILT; moist; soft
			0.0	19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push

Soil Boring Number: SB-13

Sampling Method: Sterilized acetate sleeves

Sheet 1 of 1

LOG OF SOIL BORING

Coordinates: Northing 1027311.769 Easting: 1084718.061

Surface Elevation: 613.95

Casing Below Surface: N/A

Reference Elevation: 613.95

Reference Description: Surface Elevation

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 14:00	TIME: 15:00

Surface Conditions: Gravel, debris

Weather: Sunny

Temperature: 70F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/1		19.5	0		0.0'-1.0': Brown; GRAVEL and SAND, some SILT, ash (fill); dry
				1		1.0'-2.0': No recovery
	4/0.5		0.7	2		2.0'-2.5': Black; Ash, GRAVEL, some medium SAND (fill); dry
				3		
	4/2			4		4.0' - 6.0': Brown; fill (ash, slag, medium SAND, trace GRAVEL)
				5		
	4/4			6		6.0'-8.0': Brown; fill (ash, slag, medium SAND, trace GRAVEL)
				7		
				8		8.0-'12.0': Tan; SILT, trace CLAY, trace GRAVEL; dry; hard
				9		
				10		
				11		
				12		
				13		
				14		
				15		
	4/2		0.0	16		16.0'-18.0': Dark brown; CLAY and SILT, some GRAVEL, trace glass; moist
				17		
				18		18.0'-20.0': No recovery
				19		
	4/2		0.0	20		20'-22': Fill; black; medium to coarse SAND and GRAVEL, some glass
			9.1	21		
				22		
				23		23.0'-25.0': Gray; CLAY, trace SILT; hard; moist
	4/2			24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12

Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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LOG OF SOIL BORING

Coordinates: Northing 1027413.597 Easting: 1084762.285
Surface Elevation: 594.22
Casing Below Surface: N/A
Reference Elevation: 594.22
Reference Description: Surface Elevation

Job. No.	Client:	Location:
1490710	Project: Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-14
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 13:05	TIME: 13:25

Surface Conditions: Grass / topsoil
Weather: Sunny
Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.9	0		0.0'-3.0': Reddish brown; SILT, trace CLAY, trace organics; soft; dry
			1.6	1		
			1.1	2		
			0.3	3		3.0'-4.0': Brown; CLAYEY SILT, trace organics; hard; dry
	4/4		0.0	4		4.0' - 7.0': Brown; CLAYEY SILT, trace organics; hard; dry
			0.6	5		
			0.2	6		
			0.0	7		7.0'-8.0': Grayish brown; SILT and CLAY; moderate plasticity; moist; hard
	4/4		0.0	8		8.0-'12.0': Gray; CLAY; very plastic; soft; moist
			0.0	9		
			0.0	10		
			0.0	11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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LOG OF SOIL BORING

Coordinates: Northing 1027403.713 Easting: 1084594.065
Surface Elevation: 594.98
Casing Below Surface: N/A
Reference Elevation: 594.98
Reference Description: Surface Elevation

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-15
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 11:45	TIME: 12:00

Surface Conditions: Grass / topsoil
Weather: Sunny
Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/2		1.0	0		0.0'-1.0': Brown; medium to fine SAND, some GRAVEL; Dry; fill
			2.8	1		1.0'-2.0': Dark brown; CLAY, some SILT, trace SAND, trace organics; moist
			x	2		2.0'-4.0': No recovery
			x	3		
	4/4		1.2	4		4.0' - 8.0': Brown; CLAYEY SILT; hard; moist
			5.4	5		
			6.3	6		
			3.6	7		
	4/4		0.0	8		8.0'-11.0': Brown; CLAYEY SILT; hard; moist
			0.0	9		
			0.0	10		
			0.0	11		11.0'-12.0': Gray; CLAYEY SILT; hard; moist
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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LOG OF SOIL BORING

Coordinates: Northing 1027293.294 Easting: 1084577.359
Surface Elevation: 595.53
Casing Below Surface: N/A
Reference Elevation: 595.53
Reference Description: Surface Elevation

Job. No.	Client:	Location:
1490710	NYSDEC	Lackawanna, NY
	Project: Lackawanna Former Incinerator Site	

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-16
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 10:50	TIME: 11:10

Surface Conditions: Grass / topsoil
Weather: Sunny
Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.0	0		0.0'-2.0': Dark brown; fine to medium SAND, trace SILT, trace GRAVEL (fill); moist
			5.6	1		
			3.9	2		2.0'-4.0': Reddish brown; SILTY CLAY, trace organics; moist; moderate plasticity
			3.4	3		
	4/4		0.2	4		4.0' - 8.0': Reddish brown; SILTY CLAY, trace organics; moist; moderate plasticity
			2.4	5		
			1.0	6		
			0.0	7		
	4/4		0.0	8		8.0'-10.0': Reddish brown; SILTY CLAY, trace organics; moist; moderate plasticity
			0.0	9		
			0.0	10		10.0'-12.0': Gray; CLAYEY SILT; moderate plasticity; hard; moist
			0.0	11		
	4/4		0.0	12		10.0'-16.0': Gray; CLAYEY SILT; moderate plasticity; hard; moist
			0.0	13		
			0.0	14		
			0.0	15		
				16		End of hole at 16' bgs
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12
Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: Geoprobe Direct-Push

Soil Boring Number: SB-16

Sampling Method: Sterilized acetate sleeves

Sheet 1 of 1

LOG OF SOIL BORING

Coordinates: Northing 1027251.878 Easting: 1084580.335

Surface Elevation: 595.53

Casing Below Surface: N/A

Reference Elevation: 595.53

Reference Description: Surface Elevation

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-25-12	DATE: 10-25-12
Date:					TIME: 10:10	TIME: 10:25

Surface Conditions: Gravel / soil

Weather: Sunny, 10-15 mph south

Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/4		0.0	0		0.0'-1.0': Dark brown; SAND and SILT, trace GRAVEL (fill); moist
			0.5	1		1.0'-4.0': Reddish brown; CLAY, trace SILT; moist
			9.6	2		
			4.5	3		
	4/4		0.8	4		4.0' - 8.0': Reddish brown; CLAY, trace SILT; moist
			0.9	5		
			0.3	6		
			0.7	7		
	4/4		13.6	8		8.0'-12.0': Reddish brown; CLAY, trace SILT; moist
			10.3	9		
			4.8	10		
			3.7	11		
				12		End of hole at 12' bgs
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Logged by: Robert Peterson Date: 10-25-12

Drilling Contractor: GeoLogic NY, Inc. Driller: Dave Lyons

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EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027162.282 Easting: 1084602.833
Surface Elevation: 596.4
Casing Below Surface: N/A
Reference Elevation: 596.4
Reference Description: Surface Elevation

Job. No.	Client:	Location:
1490710	NYSDEC	Lackawanna, NY
	Project: Lackawanna Former Incinerator Site	

Drilling Method: Geoprobe Direct-Push
Soil Boring Number: SB-16
Sampling Method: Sterilized acetate sleeves
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-26-12	DATE: 10-26-12
Date:					TIME: 10:05	TIME: 10:20

Surface Conditions: Gravel / soil
Weather: Sunny, 10-15 mph south
Temperature: 75F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	4/3		2.2	0		0.0'-3.0': Dark brown; CLAYEY SILT, some GRAVEL, some glass; hard; moist (fill)
			3.4	1		
			1.7	2		
			x	3		3.0'-4.0': No recovery
	4/0.5		x	4		4.0' - 4.5': Black; CLAYEY SILT, some GRAVEL, some glass; hard; wet (fill) 4.5'-8.0': No recovery
			x	5		
			x	6		
			x	7		
	4/4		0.0	8		8.0'-12.0': Gray; CLAY, trace organics; hard; high plasticity
			0.0	9		
			0.0	10		
			0.0	11		
	4/4			12		12.0'-16.0': Gray; CLAY, trace organics; hard; high plasticity
				13		
				14		
				15		
	4/4			16		16.0'-20.0': Gray; CLAY, trace organics; hard; high plasticity
				17		
				18		
				19		
	4/4			20		20.0'-24.0': Gray; CLAY, trace organics; hard; high plasticity; wet/saturated
				21		
				22		
				23		
	4/4			24		24.0'-28.0': Gray; CLAY, trace organics; hard; high plasticity; wet/saturated
				25		
				26		
				27		
				28		End of hole at 28' bgs
				29		

Logged by: Robert Peterson
Drilling Contractor: GeoLogic NY, Inc.
Date: 10-26-12
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027450.399 Easting: 1084753.743
Surface Elevation: 595.7
Casing Below Surface: 565.7
Reference Elevation: 598.19
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" hollow stem auger
Soil Boring Number: MW-02A
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 10-29-12	DATE: 10-29-12
Date:					TIME: 10:50	TIME: 16:00

Surface Conditions: Grass / topsoil
Weather: Overcast, rain
Temperature: 48F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	2/1		1.6	0		0.0': Topsoil: dark brown; fine SAND and GRAVEL, trace organics; wet
				1		0.0'-2.0': Fill: dark brown to black; cinders, glass, SILT, ash, GRAVEL; moist
	2/1		2.6	2		2.0'-3.0': Fill: dark brown to black; cinders, glass, SILT, ash, GRAVEL; moist
				3		
	2/0.3		1.9	4		4.0'-4.3': Fill: dark brown to black; cinders, glass, SILT, ash, GRAVEL; moist
				5		
	2/1		2.2	6		6.0'-7.0': Reddish brown; CLAY, some SILT; stiff; moist; iron stained fractures
				7		
	2/2		0.7	8		8.0'-10.0': Reddish brown; CLAY, some SILT; stiff; moist; iron stained fractures
				9		
	2/2		0.0	10		10.0'-12.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures
				11		
	2/2		0.0	12		12.0'-14.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				13		
	2/2		0.0	14		14.0'-16.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				15		
	2/2		0.0	16		16.0'-12.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				17		
	2/2		0.0	18		
				19		
	2/2		0.0	20		20.0'-22.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; saturated
				21		
	2/2		0.0	22		22.0'-24.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; saturated
				23		
	2/2		0.0	24		24.0'-26.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				25		
	2/2		0.0	26		26.0'-28.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				27		
	2/2		0.0	28		28.0'-30.0': Gray; CLAY, some SILT; stiff; moist; iron stained fractures; wet
				29		
						End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	30	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	20	To	30	ft bgs
Riser Interval:	0	To	20	ft bgs
Sand Pack Interval:	18	To	30	ft bgs
Bentonite Seal:	15	To	18	ft bgs
Grout Interval:	0	To	15	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Date: 10-29-12
Drilling Contractor: GeoLogic NY, Inc.
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027162.282 Easting: 1084602.833
Surface Elevation: 596.4
Casing Below Surface: 566.4
Reference Elevation: 596.14
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-03A
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

Water Level:					Drilling Start	Drilling Finish
Time:					DATE: 10-31-12	DATE: 10-31-12
Date:					TIME: 0820	TIME: 1030

Surface Conditions: Gravel / topsoil
Weather: Overcast
Temperature: 48F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	PID (ppm)	Depth in Feet	USCS Log	
	2/2	0.0	0		0.0'-2.0': Fill: Black; GRAVEL, slag, and SILTY CLAY, trace organic matter; stiff; moist
		0.1	1		
	2/0		2		2.0'-4.0': Large piece of slag stuck in split spoon. No recovery
			3		
	2/2	0.0	4		4.0'-5.0': Brown-gray; SILT, trace CLAY; stiff; wet
		0.0	5		5.0'-6.0': Brown-gray; CLAY, some SILT; moderate plasticity; wet
			6		
			7		
			8		
			9		
	2/2		10		10.0'-12.0': Gray; CLAY and SILT; hard; moist
			11		
			12		
			13		
			14		
	2/2		15		15.0'-17.0': Gray; CLAY, some SILT; moderate plasticity; hard; moist; laminations
			16		
			17		
			18		
			19		
	2/2		20		20.0'-22.0': Gray; CLAY, trace SILT; moderate plasticity; soft; wet - saturated
			21		
			22		
			23		
			24		
	2/2		25		25.0';27.0': Gray; CLAY; high plasticity; soft; saturated
			26		
			27		
			28		28.0'-30.0': Gray; CLAY; high plasticity; soft; saturated
			29		
					End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	30	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	20	To	30	ft bgs
Riser Interval:	0	To	20	ft bgs
Sand Pack Interval:	19	To	30	ft bgs
Bentonite Seal:	16	To	19	ft bgs
Grout Interval:	0	To	16	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Date: 10-31-12
Drilling Contractor: GeoLogic NY, Inc.
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1026893.482 Easting: 1084710.752
Surface Elevation: 596.45
Casing Below Surface: 566.45
Reference Elevation: 596.22
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-04
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 11-2-12	DATE: 11-5-12
Date:					TIME: 1200	TIME: 1035

Surface Conditions: Asphalt
Weather: Overcast
Temperature: 40F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	PID (ppm)	Depth in Feet	USCS Log	
			0		0'-0.5': Asphalt (1" thick), sub-base material
16	2/2				0.5'-2.0': Fill: Black; cinders, slag, brick, GRAVEL, medium SAND; wet; soft
17		1.5	1		
6					
4	2/2	1	2		2.0'-4.0': Light brown; SILT, some fine SAND; medium; wet
8					
9		0.5	3		
8					
2	2/2	0.0	4		4.0'-6.0': Light brown-gray; SILT, trace CLAY, trace organics; stiff; moist; horizontal laminations
3					
5			5		
6					
			6		
			7		
			8		
			9		
5	2/2	0.0	10		10.0'-12.0': Gray; SILT and CLAY; stiff; moist; laminations
5					
17			11		
10					
			12		
			13		
			14		
3	2/2	0.0	15		15.0'-17.0': Gray; SILT and CLAY; stiff; moist; laminations
3					
5			16		
6					
			17		
			18		
			19		
1	2/2	0.0	20		20.0'-22.0': Gray; SILT and CLAY; stiff; moist; laminations; saturated; soft
4					
2			21		
2					
			22		
			23		
			24		
3	2/2	0.0	25		25.0';27.0': Gray; SILT and CLAY; stiff; moist; laminations; saturated; soft
3					
3			26		
3					
			27		
2	2/2	0.0	28		28.0'-30.0': Gray; SILT and CLAY; stiff; moist; laminations; saturated; soft
3					
2			29		
2					End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	30	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	20	To	30	ft bgs
Riser Interval:	0	To	20	ft bgs
Sand Pack Interval:	18	To	30	ft bgs
Bentonite Seal:	15	To	18	ft bgs
Grout Interval:	0	To	15	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Drilling Contractor: GeoLogic NY, Inc.
Date: 11-5-12
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027317.89 Easting: 1084807.567
Surface Elevation: 596.33
Casing Below Surface: 566.33
Reference Elevation: 596.03
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-05
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 11-1-12	DATE: 11-2-12
Date:					TIME: 1415	TIME: 0900

Surface Conditions: Grass / topsoil
Weather: Overcast / rain
Temperature: 48F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
5	2/2		3.2	0		0'-1.5': Light brown; SILT and CLAY, some organics, trace glass and slag
6						
7			x	1		
8						1.5'-2.0': Fill: Dark brown; glass, slag, wood, CLAY and SILT, GRAVEL; hard; moist
7	2/2		1.3	2		2.0'-3.0': Fill: Dark brown; glass, slag, wood, CLAY and SILT, GRAVEL; hard; moist
7						
9			1.5	3		3.0'-4.0': Light brown; SILT, trace CLAY, trace organics; stiff; moist
12						
5	2/2		1.0	4		4.0'-6.0': Light brown; SILT, trace CLAY, trace organics; stiff; moist; laminations; oxidized
6						
8				5		
11						
				6		
				7		
				8		
				9		
5	2/2		0.0	10		10.0'-12.0': Gray; SILT and CLAY; vertical laminations; hard; moderate plasticity; moist
7						
9				11		
11						
				12		
				13		
				14		
3	2/2		0.0	15		15.0'-17.0': Gray; SILT and CLAY; vertical laminations; hard; moderate plasticity; moist
3						
5				16		
6						
				17		
				18		
				19		
10	2/2		0.0	20		20.0'-22.0': Gray; SILT and CLAY; vertical laminations; hard; moderate plasticity; moist
5						
6				21		
10						
				22		
				23		
				24		
W0H	2/2		0.0	25		25.0';27.0': Gray; SILT and CLAY; moderate plasticity; saturated; soft
W0H						
W0H				26		
2						
				27		
W0H	2/2		0.0	28		
W0H						
W0H				29		
1						End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	30	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	20	To	30	ft bgs
Riser Interval:	0	To	20	ft bgs
Sand Pack Interval:	17	To	30	ft bgs
Bentonite Seal:	14	To	17	ft bgs
Grout Interval:	0	To	14	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Date: 11-1-12
Drilling Contractor: GeoLogic NY, Inc.
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027339.096 Easting: 1084566.429
Surface Elevation: 595.07
Casing Below Surface: 565.07
Reference Elevation: 594.8
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-06
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 10-31-12	DATE: 11-1-12
Date:					TIME: 1600	TIME: 0900

Surface Conditions: Gravel
Weather: Overcast / rain
Temperature: 47F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	PID (ppm)	Depth in Feet	USCS Log	
11	2/2	5.5	0		0'-2.0': Fill: Black; CLAY and SILT, slag, GRAVEL, organic matter; hard; moist
10					
10		6.9	1		
8					
9	2/2	4	2		2.0'-4.0': Brown-gray; SILT and CLAY, trace organic matter; hard; moist
11					
12		3.9	3		
12					
2	2/2		4		4.0'-6.0': Brown-gray; SILT and CLAY, trace organic matter; hard; moist
3					
6			5		
7					
8	2/2		6		6.0'-8.0': Brown-gray; SILT and CLAY, trace organic matter; hard; moist; laminated
11					
15			7		
22					
			8		
			9		
6	2/2		10		10.0'-11.0': Brown-gray; SILT and CLAY, trace organic matter; hard; moist; laminated
7					
9			11		11.0'-12.0': Gray; CLAY, some SILT; hard; moist
12					
			12		
			13		
			14		
3	2/2		15		15.0'-17.0': Gray; CLAY, some SILT; hard; moist
4					
7			16		
8					
			17		
			18		
			19		
1	2/2		20		20.0'-22.0': Gray; CLAY; soft; saturated; high plasticity
W0H					
1			21		
1					
			22		
			23		
			24		
W0H	2/2		25		25.0';27.0': Gray; CLAY; soft; saturated; high plasticity
W0H					
W0H			26		
W0H					
			27		
2	2/1		28		28.0'-30.0': Gray; CLAY; soft; saturated; high plasticity
3					
12			29		
15					End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	30	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	20	To	30	ft bgs
Riser Interval:	0	To	20	ft bgs
Sand Pack Interval:	17	To	30	ft bgs
Bentonite Seal:	14	To	17	ft bgs
Grout Interval:	0	To	14	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Date: 10-31-12
Drilling Contractor: GeoLogic NY, Inc.
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027450.337 Easting: 1084651.689
Surface Elevation: 595.4103
Casing Below Surface: 568.41032
Reference Elevation: 595.15
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-07
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 11-5-12	DATE: 11-5-12
Date:					TIME: 1425	TIME: 1800

Surface Conditions: Grass / Topsoil
Weather: Overcast
Temperature: 40F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
4	2/1.5		0.0	0		0'-1.5': Topsoil: Grass, organic matter
9						
14			1.2	1		
8						1.5': Fill: Glass, brick, slag, SILT and CLAY; soft; moist
2	2/1		0.9	2		2.0'-3.0': Fill: Glass, brick, slag, SILT and CLAY; soft; moist
2						
5			3.8	3		
7						
2	2/1		2.5	4		4.0'-4.5': Fill: Glass, brick, slag, SILT and CLAY; soft; moist
2						4.5'-5.0': Gray; SILT, some CLAY; soft; moist
3			0.0	5		
3						
1	2/1.5		0.0	6		6.0'-7.5': Light brown; SILT, some CLAY; hard; moist
2						
5				7		
8						
				8		
				9		
2	2/2		0.0	10		
3						
3				11		
4						
				12		
				13		
				14		
2	2/2		0.0	15		15.0'-17.0': Gray; CLAY and SILT; hard; moist; moderate plasticity
2						
1				16		
2						
				17		
				18		
				19		
W0H	2/2		0.0	20		20.0'-22.0': Gray; CLAY, some SILT; soft; saturated; high plasticity
1						
1				21		
2						
				22		
				23		
				24		
1	2/2		0.0	25		25.0';27.0': Gray; CLAY, some SILT; soft; saturated; high plasticity; auger drilling became hard at 27'
1						
1				26		
2						
				27		
14	2/1		0.0	28		
21						
23				29		
31						End of hole at 30' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	27	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	17	To	27	ft bgs
Riser Interval:	0	To	17	ft bgs
Sand Pack Interval:	15	To	27	ft bgs
Bentonite Seal:	12	To	15	ft bgs
Grout Interval:	0	To	12	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Drilling Contractor: GeoLogic NY, Inc.
Date: 11-5-12
Driller: Dave Lyons

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing 1027476.56 Easting: 1084456.249
Surface Elevation: 593.561
Casing Below Surface: 571.56096
Reference Elevation: 593.42
Reference Description: TOC

Job. No.	Client:	NYSDEC	Location:
1490710	Project:	Lackawanna Former Incinerator Site	Lackawanna, NY

Drilling Method: 4.25" Hollow stem auger
Soil Boring Number: MW-08
Sampling Method: 3" diameter split spoon
Sheet 1 of 1

					Drilling	
Water Level:					**Start**	**Finish**
Time:					DATE: 11-6-12	DATE: 11-6-12
Date:					TIME: 1000	TIME:

Surface Conditions: Grass / Topsoil
Weather: Mostly cloudy
Temperature: 35F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	PID (ppm)	Depth in Feet	USCS Log	
3	2/1.5	6.7	0		0'-0.2': Topsoil: Dark brown; fine SAND and SILT, trace organic matter; soft; moist
5					0.2'-1.5': Fill: Brown; glass, brick, wood, SILT and CLAY; loose; moist
6			1		
7					
5	2/1	1	2		2.0'-3.0': Fill: Brown; glass, brick, metal fragments; loose; moist
3					
2			3		
1					
1	2/0.3	0.0	4		4.0'-4.3': Fill: Brown; glass, brick, metal fragments; loose; moist
W0H					
W0H			5		
1					
4	2/2	0.0	6		6.0'-8.0': Brown; SILT/CLAY; hard; moist
14					
19			7		
31					
			8		
			9		
2	2/2		10		10.0'-12.0': Gray; CLAY and SILT; hard; moist; moderate plasticity
2					
2			11		
2					
			12		
			13		
			14		
1	2/2		15		15.0'-17.0': Gray; CLAY and SILT; hard; soft; saturated; high plasticity
1					
2			16		
1					
			17		
			18		
			19		
W0H	2/2		20		20.0'-22.0': Gray; CLAY and SILT; hard; soft; saturated; high plasticity; drilling became hard at 22' (till)
W0H					
2			21		
3					
			22		
			23		
			24		
25	2/2		25		25.0';27.0': Till: CLAY and SILT, some fine SAND, trace GRAVEL
17					
27			26		
36					
			27		
			28		
			29		
					End of hole at 27' bgs

Monitoring Well Construction Information

Monitoring Well Diameter:	2	in		
Bottom of Monitoring Well:	22	ft bgs		
Stick Up or Flush Mount:	Stick up			
Screen Interval:	12	To	22	ft bgs
Riser Interval:	0	To	12	ft bgs
Sand Pack Interval:	10	To	22	ft bgs
Bentonite Seal:	8	To	10	ft bgs
Grout Interval:	0	To	8	ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point:	N/A	ft
Bottom of Tubing:	N/A	ft
Top of Sand Pack:	N/A	ft
Top of Bentonite Seal:	N/A	ft

Logged by: Robert Peterson
Drilling Contractor: GeoLogic NY, Inc.
Date: 11-6-12
Driller: Dave Lyons